"Literature Citations Relevant to Pharmaceuticals and Personal Care Products (PPCPs)
http://www.epa.gov/ppcp/lit.html

revised: 02 December 2009
U.S. Environmental Protection Agency, Office of Research and Development, National Exposure Research Laboratory

NOTE: To correct an existing citation or suggest the addition of a new citation to the PPCPs bibliography, please send the complete citation to Dr. Christian Daughton (daughton.christian@epa.gov) or Sheila Scuderi (scuderi.sheila@epa.gov). If the reference is freely available to the public from the web, please include the URL; also note if the article is in a language other than English."

"To Cite this Database: If this database is used for preparing a published work, it can be cited as:
U.S. EPA. 2009. "Pharmaceuticals and Personal Care Products (PPCPs): Relevant Literature," U.S. Environmental Protection Agency, Las Vegas, NV (a comprehensive database of literature references compiled and maintained by CG Daughton and MST Scuderi; first implemented 19 February 2008); available: http://www.epa.gov/ppcp/lit.html."

==========

AAPCC "National Poisoning and Exposure Database Annual Reports (AAPCC Annual Data Reports)." American Association of Poison Control Centers 2008; http://www.aapcc.org/dnn/NPDS/AnnualReports/tabid/125/Default.aspx.

Aaron R and Lewis P. "Technical Article: Cocaine Residues on Money." *Crime Laboratory Digest* **1987**, *14*(1):18.

AB Innovations "Pill Crushers." Web Page maintained by AB Innovations 2008, http://www.abinn.com/.

Abadi A, H. and Brun R. "Synthesis and Evaluation of Novel 7-Trifluoromethyl-4-(4-substituted anilino) quinolines as Antiparasitic and Antineoplastic Agents." *Arzneimittel-Forschung-Drug Research* **2003**, *53*(9):655-663; doi:10.1002/chin.200352151.

Abahussain E and Ball D. "Disposal of unwanted medicines from households in Kuwait." *Pharmacy World and Science* **2007**, *29*(4):368-373; doi:10.1007/s11096-006-9082-y.

Abahussain EA, Ball DE, and Matowe WC. "Practice and opinion towards disposal of unused medication in Kuwait." *Medical Principles and Practices* **2006**, *15*(5):352-357; doi:10.1159/000094268.

Abdulla F, Abu Qdais H, and Rabi A. "Site investigation on medical waste management practices in northern Jordan." *Waste Management* **2008**, *28*(2):450-458; doi:10.1016/j.wasman.2007.02.035.

Abedini S, Namdari R, and Law FCP. "Comparative pharmacokinetics and bioavailability of oxytetracycline in rainbow trout and chinook salmon." *Aquaculture* **1998**, *162*(1-2):23-32; doi:10.1016/S0044-8486(97)00306-2.

Abegglen C, Joss A, McArdell CS, Fink G, Schlüsene MP, Ternes TA*, et al.* "The fate of selected micropollutants in a single-house MBR." *Water Research* **2009**, *43*(7):2036-2046; doi:10.1016/j.watres.2009.02.005.

Abegglen CK. "Membrane bioreactor technology for decentralized wastewater treatment and reuse." Doctoral Dissertation, Zurich, Switzerland, 2008. 5 pp; http://e-collection.ethbib.ethz.ch/eserv.php?pid=eth:31171&dsID=eth-31171-01.pdf.

Abellán MN, Bayarri B, Giménez J, and Costa J. "Photocatalytic degradation of sulfamethoxazole in aqueous suspension of TiO2." *Applied Catalysis B: Environmental* **2007**, *74*(3-4):233-241; doi:10.1016/j.apcatb.2007.02.017.

Abou-Auda HS. "An economic assessment of the extent of medication use and wastage among families in Saudi Arabia and Arabian Gulf countries." *Clinical Therapeutics* **2003**, *25*(4):1276-1292; doi:10.1016/S0149-2918(03)80083-8.

Abou-Donia MB, El-Masry EM, Abdel-Rahman AA, McLendon RE, and Schiffman SS. "Splenda Alters Gut Microflora and Increases Intestinal P-Glycoprotein and Cytochrome P-450 in Male Rats." *Journal of Toxicology and Environmental Health, Part A Current Issues* **2008**, *71*(21):1415 - 1429; doi:10.1080/15287390802328630.

Abraham J, Bardelay D, Kopp C, Kleinke JD, and Bennion E. "Making regulation responsive to commercial interests: streamlining drug industry watchdogs." *British Medical Journal* **2002**, *325*(7373):1164-1169; doi:10.1136/bmj.325.7373.1164.

Abramowicz M. "Drugs past their expiration date." *The Medical Letter* **1996**, *38*(W979C):65-66.

Abramowicz M. "Drugs past their expiration date." *The Medical Letter* **2002**, *44*(W1142B):93-94.

Abrams T. "Lidoderm® (Lidocaine Patch 5%) Warning Letter to Mr. Peter A. Lankau." **2005**, (NDA 20-612) 6 pp; http://www.fda.gov/cder/warn/2005/Lidoderm_warn_ltr.pdf.

Abramsson-Zetterberg L and Slanina P. "Macrocyclic musk compounds - an absence of genotoxicity in the Ames test and the in vivo Micronucleus assay." *Toxicology Letters* **2002**, *135*(1-2):155-163; doi:10.1016/S0378-4274(02)00257-6.

Abriola LM, Drummond CD, Hahn EJ, Hayes KF, Kibbey TCG, Lemke LD*, et al.* "Pilot-Scale Demonstration of Surfactant-Enhanced PCE Solubilization at the Bachman Road Site. 1. Site Characterization and Test Design." *Environmental Science & Technology* **2005**, *39*(6):1778-1790; doi:10.1021/es049563r.

Abuin S, Codony R, Compano R, Granados M, and Prat MD. "Analysis of macrolide antibiotics in river water by solid-phase extraction and liquid chromatography-mass spectrometry." *Journal of Chromatography A* **2006**, *1114*(1):73-81; doi:10.1016/j.chroma.2006.02.032.

Abul-Huan N, Powell KJ, Sutak M, Hong M, and Jhamadas KH. "Paradoxical augmentation of morphone antinociception and inhibition of tolerance by ultra-low dose of the opiod antigonist naltrexone." presented at 30th Annual Meeting, Society for Neuroscience, 4 - 9 November, at New Orleans, LA, 2000; http://sfn.scholarone.com/itin2000/.

Abu-Qare AW and Abou-Donia MB. "A validated HPLC method for the determination of pyridostigmine bromide, acetaminophen, acetylsalicylic acid and caffeine in rat plasma and urine." *Journal of Pharmaceutical and Biomedical Analysis* **2001**, *26*(5-6):939-947; doi:10.1016/S0731-7085(01)00448-4.

Academie Nationale de Pharmacie. "Medicaments de environnement." 14 June, 2008, 94 pp; http://www.acadpharm.org/medias/direct/1-Medicament-Env-rapport-plan-version-JMH-15-06-08.doc.

Acar JF and Moulin G. "Antimicrobial resistance at farm level." *Revue Scientifique et Technique* **2006**, *25*(2):775-792.

Accinelli C, Caracciolo AB, and Grenni P. "Degradation of the antiviral drug oseltamivir carboxylate in surface water samples." *International Journal of Environmental Analytical Chemistry* **2007**, *87*(8):579-587; doi:10.1080/03067310601151894.

Accinelli C, Hashim M, Epifani R, Schneider RJ, and Vicari A. "Effects of the antimicrobial agent sulfamethazine on metolachlor persistence and sorption in soil." *Chemosphere* **2006**, *63*(9):1539-1545; doi:10.1016/j.chemosphere.2005.09.039.

Accinelli C, Koskinen WC, Becker JM, and Sadowsky MJ. "Environmental fate of two sulfonamide antimicrobial agents in soil." *Journal of Agricultural and Food Chemistry* **2007**, *55*(7):2677-2682; doi:10.1021/jf063709j.

Ackermann GE, Brombacher E, and Fent K. "Development of a fish reporter gene system for the assessment of estrogenic compounds and sewage treatment plant effluents." *Environmental Toxicology and Chemistry* **2002**, *21*(9):1864-1875.

Actelion Pharmaceuticals Ltd "OSIRIS Property Explorer." 2008; http://www.organic-chemistry.org/prog/peo/index.html.

Adam C, Debayle C, Carel D, and Cavalié I. "Radiopharmaceuticals in hospital and household effluent." *Environment, Risques & Sante* **2006**, *5*(4):254-260.

Adam LA. "Confirmation of azaperone and its metabolically reduced form, azaperol, in swine liver by gas chromatography/mass spectrometry." *Journal of AOAC International* **1999**, *82*(4):815-824.

Adams C, Wang Y, Loftin K, and Meyer M. "Removal of antibiotics from surface and distilled water in conventional water treatment processes." *Journal of Environmental Engineering* **2002**, *128*(3):253-260; doi:10.1061/(ASCE)0733-9372(2002)128:3(253).

Adams CD. "Treatment of Antibiotics in Swine Wastewater." in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press; Boca Raton, FL, 2007, Chapter 14, pp 331-348; http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Treatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#PPR8,M1.

Adams CD. "Modeling the Fate of Pharmaceuticals and Personal Care Products in Sewage Treatment Plants." *Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management* **2008**, *12*(1):2-9; doi:10.1061/(ASCE)1090-025X(2008)12:1(2).

Adams CD. "Pharmaceuticals." in *Contaminats of Emerging Environmental Concern*, Bhandari A, Surampalli RY, Adams CD, Champagne P, Ong SK, Tyagi RD and Zhang TC, Eds., American Society of Civil Engineers; Reston, Virginia, 2008, Chapter 3, pp 56-85; http://books.google.com/books?id=1G7D2d99orkC&source=gbs_navlinks_s.

Adamski R. ""Stuff" in water: Acronyms gone wild?" *Clearwaters* **2008**, (Fall):11-12.

ADAS. "The safe sludge matrix - guidelines for the application of sewage sludge to agricultural land." Wolverhampton, UK, 2001.

Addamo M, Augugliaro V, Di Paola A, Garcia-Lopez E, Loddo V, Marci G*, et al.* "Removal of drugs in aqueous systems by photoassisted degradation." *Journal of Applied Electrochemistry* **2005**, *35*(7):765-774; doi:10.1007/s10800-005-1630-y.

Addison JB. "Antibiotics in sediments and run-off waters from feedlots." *Residue Reviews* **1984**, *92*:1-28.

Adis Data Information BV. "Residues of active pharmaceutical ingredients may pollute the environment with potential effects on human safety." *Drugs & Therapy Perspectives* **2009**, *25*(7):25-26; doi:10.2165/0042310-200925070-00008.

Adjei MD, Heinze TM, Deck J, Freeman JP, Williams AJ, and Sutherland JB. "Transformation of the Antibacterial Agent Norfloxacin by Environmental Mycobacteria." *Applied and Environmental Microbiology* **2006**, *72*(9):5790-5793; doi:10.1128/aem.03032-05.

Adler NE, Koschorreck J, and Rechenberg B. "Environmental impact assessment and control of pharmaceuticals: the role of environmental agencies." *Water Science and Technology* **2008**, *57*(1):91-97; doi:10.2166/wst.2008.816.

Adler P, Steger-Hartmann T, and Kalbfus W. "Vorkommen natürlicher und synthetischer östrogener Steroide in Wässern des süd- und mitteldeutschen Raumes [Distribution of natural and synthetic estrogenic steroid hormones in water samples from Southern and Middle Germany]." *Acta Hydrochimica et Hydrobiologica* **2001**, *29*(4):227-241; doi:10.1002/1521-401X(200111)29:4<227::AID-AHEH227>3.0.CO;2-R.

Adolfsson-Erici M. "Fish bile in environmental analysis." Doctoral Dissertation, Stockholm University, Department of Applied Environmental Science, Stockholm, Sweden, 2005. 70 pp; http://www.diva-portal.org/su/abstract.xsql?dbid=494.

Adolfsson-Erici M, Pettersson M, Parkkonen J, and Sturve J. "Triclosan, a commonly used bactericide found in human milk and in the aquatic environment in Sweden." *Chemosphere* **2002**, *46*(9-10):1485-1489; doi:10.1016/S0045-6535(01)00255-7.

Adriaens P, Goovaerts P, Skerlos S, Edwards E, and Egli T. "Intelligent infrastructure for sustainable potable water: a roundtable for emerging transnational research and technology development needs." *Biotechnology Advances* **2003**, *22*(1-2):119-134; doi:10.1016/j.biotechadv.2003.08.017.

Adrian J, Pasche S, Voirin G, Pinacho DG, Font H, Sánchez-Baeza F*, et al.* "Wavelength-interrogated optical biosensor for multi-analyte screening of sulfonamide, fluoroquinolone, β-lactam and tetracycline antibiotics in milk." *TRAC Trends in Analytical Chemistry* **2009**, *28*(6):769-777; doi:10.1016/j.trac.2009.04.011.

Aerni HR, Kobler B, Rutishauser BV, Wettstein FE, Fischer R, Giger W*, et al.* "Combined biological and chemical assessment of estrogenic activities in wastewater treatment plant effluents." *Analytical and Bioanalytical Chemistry* **2004**, *378*(7):1873; doi:10.1007/s00216-004-2555-8.

Afonso LOB, Iwama GK, Smith J, and Donaldson EM. "Effects of the Aromatase Inhibitor Fadrozole on Plasma Sex Steroid Secretion and Ovulation Rate in Female Coho Salmon, Oncorhynchus kisutch, Close to Final Maturation." *General and Comparative Endocrinology* **1999**, *113*(2):221-229; doi:10.1006/gcen.1998.7198.

Aga DS. "Mass spectrometric identification of biodegradates of pharmaceuticals in wastewater treatment systems." *Abstracts of Papers - American Chemical Society* **2006**, *231*(Mar 26):19.

Aga DS, Ed., "Fate of Pharmaceuticals in the Environment and in Water Treatment Systems." CRC Press, Taylor and Francis Books, 2008, 408 pp;
http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Treatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#PPR8,M1;
http://www.crcpress.co.uk/shopping_cart/products/product_contents.asp?id=&parent_id=966&sku=52322&isbn=9781420052329&pc=.

Aga DS, Celiz MD, and Tso J. "Pharmaceutical Metabolites in the Environment: Analytical Challenges and Ecological Risks." *Environmental Toxicology and Chemistry* **2009**, *In press*; doi:10.1897/09-173.1.

Aga DS, Goldfish R, and Kulshrestha P. "Application of ELISA in determining the fate of tetracyclines in land-applied livestock wastes." *Analyst* **2003**, *128*(6):658-662.

Aga DS, O'Connor S, Ensley S, Payero JO, Snow D, and Tarkalson D. "Determination of the persistence of tetracycline antibiotics and their degradates in manure-amended soil using enzyme-linked immunosorbent assay and liquid chromatography-mass spectrometry." *Journal of Agricultural and Food Chemistry* **2005**, *53*(18):7165-7171; doi:10.1021/jf050415+.

Agerso Y, Bruun MS, Dalsgaard I, and Larsen JL. "The tetracycline resistance gene tet(E) is frequently occurring and present on large horizontally transferable plasmids in Aeromonas spp. from fish farms." *Aquaculture* **2007**, *266*(1-4):47-52; doi:10.1016/j.aquaculture.2007.01.012.

Agerso Y and Petersen A. "The tetracycline resistance determinant Tet 39 and the sulphonamide resistance gene sulII are common among resistant Acinetobacter spp. isolated from integrated fish farms in Thailand." *Journal of Antimicrobial Chemotherapy* **2007**, *59*(1):23-27; doi:10.1093/jac/dkl419.

Agerso Y and Sandvang D. "Class1 integrons and tetracycline resistance genes in Alcaligenes, Arthrobacter, and Pseudomonas spp. isolated from pigsties and manured soil." *Applied and Environmental Microbiology* **2005**, *71*(12):7941-7947; doi:10.1128/AEM.71.12.7941-7947.

Agerso Y, Sengelov G, and Jensen LB. "Development of a rapid method for direct detection of tet(M) genes in soil from Danish farmland." *Environment International* **2004**, *30*(1):117-122; doi:10.1016/S0160-4120(03)00156-9.

Agerso Y, Wulff G, Vaclavik E, Halling-Sorensen B, and Jensen LB. "Effect of tetracycline residues in pig manure slurry on tetracycline-resistant bacteria and resistance gene tet(M) in soil microcosims." *Environment International* **2006**, *32*(7):876-882; doi:10.1016/j.envint.2006.05.008.

Ågerstrand M, Wester M, and Rudén C. "The Swedish Environmental Classification and Information System for Pharmaceuticals -- An empirical investigation of the motivations, intentions and expectations underlying its development and implementation." *Environment International* **2009**, *35*(5):778-786; doi:10.1016/j.envint.2008.12.001.

Agid R, Rubinstein R, Siegal T, Lester H, Bokstein F, Chisin R*, et al.* "Does streaming affect the cerebral distribution of infraophthalmic intracarotid chemotherapy?" *American Journal of Neuroradiology* **2002**, *23*(10):1732-1735.

Agres T, "Heavy Drugs." *Drug discovery & development*, 1 May, 2009, http://www.dddmag.com/Article-Heavy-Drugs-050509.aspx.

Aguayo S, Muñoz MJ, de la Torre A, Roset J, de la Peña E, and Carballo M. "Identification of organic compounds and ecotoxicological assessment of sewage treatment plants (STP) effluents." *Science of the Total Environment* **2004**, *328*(1-3):69-81; doi:10.1016/j.scitotenv.2004.02.013.

Aguejouf O, Malfatti E, Belon P, and Doutremepuich C. "Time Related Neutralization of Two Doses Acetyl Salicylic Acid." *Thrombosis Research* **2000**, *100*(4):317-323; doi:10.1016/S0049-3848(00)00336-4.

Agüera A, Estrada LAP, Ferrer I, Thurman EM, Malato S, and Fernandez-Alba AR. "Application of time-of-flight mass spectrometry to the analysis of phototransformation products of diclofenac in water under natural sunlight." *Journal of Mass Spectrometry* **2005**, *40*(7):908-915; doi:10.1002/jms.867.

Agüera A, Fernandez-Alba AR, Piedra L, Mezcua M, and Gomez MJ. "Evaluation of triclosan and biphenylol in marine sediments and urban wastewaters by pressurized liquid extraction and solid phase extraction followed by gas chromatography mass spectrometry and liquid chromatography mass spectrometry." *Analytica Chimica Acta* **2003**, *480*(2):193-205; doi:10.1016/S0003-2670(03)00040-0.

Agüera A, Mezcua M, Mocholi F, Vargas-Berenguel A, and Fernandez-Alba AR. "Application of gas chromatography-hybrid chemical ionization mass spectrometry to the analysis of diclofenac in wastewater samples." *Journal of Chromatography A* **2006**, *1133*(1-2):287-292; doi:10.1016/j.chroma.2006.08.017.

Aguilar-Arteaga K, Rodriguez JA, Miranda JM, Medina J, and Barrado E. "Determination of non-steroidal anti-inflammatory drugs in wastewaters by magnetic matrix solid phase dispersion-HPLC." *Talanta* **2009**, *In Press*; doi:10.1016/j.talanta.2009.08.042.

Ahel M, Giger W, Molnar E, and Ibric S. "Determination of nonylphenol polyethoxylates and their lipophilic metabolites in sewage effluents by normal-phase high-performance liquid chromatography and fluorescence detection." *Croatica chemica acta* **2000**, *73*(1):209-227.

Ahel M and Jelicic I. "Occurrence of phenazone analgesics in landfill-leachate polluted groundwater." presented at 219th National Meeting of the American Chemical Society, 26-30 March, at San Francisco, CA, 2000; http://crosbi.znanstvenici.hr/prikazi-rad?chset=ASCII&lang=EN&rad=38242.

Ahel M and Jelicic I. "Phenazone analgesics in soil and groundwater below a municipal solid waste landfill." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 6, pp 100-115; doi:10.1021/bk-2001-0791.ch006; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Ahel M, Mikac N, Cosovic B, Prohic E, and Soukup V. "The impact of contamination from a municipal solid waste landfill (Zagreb, Croatia) on underlying soil." *Water Science and Technology* **1998**, *37*(8):203-210; doi:10.1016/S0273-1223(98)00260-1.

Ahel T, Mijatovic I, Matosic M, and Ahel M. "Nanofiltration of a landfill leachate containing pharmaceutical intermediates from vitamin C production." *Food Technology and Biotechnology* **2004**, *42*(2):99-104.

Aherne GW and Briggs R. "The relevance of the presence of certain synthetic steroids in the aquatic environment." *Journal of Pharmacy and Pharmacology* **1989**, *41*(10):735-736.

Aherne GW, Hardcastle A, and Nield AH. "Cytotoxic drugs and the aquatic environment: estimation of bleomycin in river and water samples." *Journal of Pharmacy and Pharmacology* **1990**, *42*(10):741-742.

Ahlers J, Riedhammer C, Vogliano M, Ebert RU, Kuhne R, and Schuurmann G. "Acute to chronic ratios in aquatic toxicity - variation across trophic levels and relationship with chemical structure." *Environmental Toxicology and Chemistry* **2006**, *25*(11):2937-2945; doi:10.1897/05-701R.1.

Ahmad BS and Barton PI. "Solvent recovery targeting." *AlChE Journal* **1999**, *45*(2):335-349; doi:10.1002/aic.690450214.

Ahmad K. "WHO releases stricter guidelines on emergency drug donations." *The Lancet* **1999**, *354*(9182):928-928; doi:10.1016/S0140-6736(05)75681-6.

Ahmed I and Majeed A. "The safe and responsible disposal of unused controlled drugs." *British Journal of Nursing* **2007**, *16*(21):1318-1322.

Ahmed S, Fujii S, Kishikawa N, Ohba Y, Nakashima K, and Kuroda N. "Selective determination of quinones by high-performance liquid chromatography with on-line post column ultraviolet irradiation and peroxyoxalate chemiluminescence detection." *Journal of Chromatography A* **2006**, *1133*(1-2):76-82; doi:10.1016/j.chroma.2006.07.078.

Ahmed S and Othman OE. "Clastogenic effects of the fasciolicide drug fasinex on river buffalo lymphocyte cultures in vitro." *Mutation Research/Genetic Toxicology and Environmental Mutagenesis* **2003**, *541*(1-2):115-121; doi:10.1016/S1383-5718(03)00185-2.

Ahmed SA. "The immune system as a potential target for environmental estrogens (endocrine disrupters): a new emerging field." *Toxicology* **2000**, *150*(1-3):191-206; doi:10.1016/S0300-483X(00)00259-6.

Ahmed W, Tucker J, Harper J, Neller R, and Katouli M. "Comparison of the efficacy of an existing versus a locally developed metabolic fingerprint database to identify non-point sources of faecal contamination in a coastal lake." *Water Research* **2006**, *40*(12):2339-2348; doi:10.1016/j.watres.2006.04.016.

Ahn KC, Zhao B, Chen J, Cherednichenko G, Sanmarti E, Denison M, S*., et al.* "*In Vitro* Biologic Activities of the Antimicrobials Triclocarban, Its Analogs, and Triclosan in Bioassay Screens: Receptor-Based Bioassay Screens." *Environmental Health Perspectives* **2008**, *116*(9):1203-1210; doi:10.1289/ehp.11200.

Ahrer W and Buchberger W. "Analysis of acidic pharmaceutical drug residues in surface water by capillary electrophoresis-electrospray mass spectrometry." *American Laboratory* **2001**, *33*(24):31-35.

Ahrer W and Buchberger W. "Combination of aqueous and non-aqueous capillary electrophoresis with electrospray mass spectrometry for the determination of drug residues in water." *Monatshefte Fur Chemie [Chemical Monthly]* **2001**, *132*(3):329-337; doi:10.1007/s007060170119.

Ahrer W, Scherwenk E, and Buchberger W. "Determination of drug residues in water by the combination of liquid chromatography or capillary electrophoresis with electrospray mass spectrometry." *Journal of Chromatography A* **2001**, *910*(1):69-78; doi:10.1016/S0021-9673(00)01187-0.

Aiello AE and Larson E. "Antibacterial cleaning and hygiene products as an emerging risk factor for antibiotic resistance in the community." *The Lancet Infectious Diseases* **2003**, *3*(8):501-506; doi:10.1016/S1473-3099(03)00723-0.

Aiello AE, Larson EL, and Levy SB. "Consumer antibacterial soaps: effective or just risky?" *Clinical Infectious Diseases* **2007**, *45*(2):137-147.

Aiello AE, Marshall B, Levy SB, Della-Latta P, and Larson E. "Relationship between triclosan and susceptibilities of bacteria isolated from hands in the community." *Antimicrobial Agents and Chemotherapy* **2004**, *48*(8):2973-2979; doi:10.1128/AAC.48.8.2973-2979.2004.

Airhart MJ, Lee DH, Wilson TD, Miller BE, Miller MN, and Skalko RG. "Movement disorders and neurochemical changes in zebrafish larvae after bath exposure to fluoxetine (PROZAC)." *Neurotoxicology and Teratology* **2007**, *29*(6):652-664; doi:10.1016/j.ntt.2007.07.005.

Ait-Aissa S, Porcher JM, Arrigo AP, and Lambre C. "Activation of the hsp70 promoter by environmental inorganic and organic chemicals: relationships with cytotoxicity and lipophilicity." *Toxicology* **2000**, *145*(2-3):147-157; doi:10.1016/S0300-483X(00)00145-1.

Akaishi FM, St-Jean SD, Bishay F, Clarke J, Rabitto IdS, and Ribeiro CAdO. "Immunological responses, histopathological finding and disease resistance of blue mussel (Mytilus edulis) exposed to treated and untreated municipal wastewater." *Aquatic Toxicology* **2007**, *82*(1):1-14; doi:10.1016/j.aquatox.2007.01.008.

Akande MG. "The toxicological evaluation of sewage effluents and pharmaceuticals with the use of zebrafish as a model organism." Masters Dissertation, Swedish University of Agricultural Sciences, Uppsala, 2008. 60 pp; http://diss-epsilon.slu.se/archive/00001694/01/Last__version.pdf.

Akmehmet Balcioglu I and Ötker M. "Treatment of pharmaceutical wastewater containing antibiotics by O_3 and O_3/H_2O_2 processes." *Chemosphere* **2003**, *50*(1):85-95; doi:10.1016/S0045-6535(02)00534-9.

Aksglaede L, Juul A, Leffers H, Skakkebaek NE, and Andersson A-M. "The sensitivity of the child to sex steroids: possible impact of exogenous estrogens." *Human Reproduction Update* **2006**, *12*(4):341-349; doi:10.1093/humupd/dml018.

Aksu Z and Tunc O. "Application of biosorption for penicillin G removal: comparison with activated carbon." *Process Biochemistry* **2005**, *40*(2):831-847; doi:10.1016/j.procbio.2004.02.014.

Akter N. "Medical waste management: A review." Asian Institute of Technology, School of Environment, Resources and Development, Environmental Engineering Program, Khlongluang, Pathumthani, Thailand, January, 2000, 25 pp.

Al Shafie A. "Sorption of 17α-ethynylestradiol in different soil environments." Doctoral Dissertation, Concordia University (Canada), 2007. 148 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2231907,FM=9,SEARCH=MD.GenericSearch.

Al Zabadi H, Ferrari L, Laurent AM, Tiberguent A, Paris C, and Zmirou-Navier D. "Biomonitoring of complex occupational exposures to carcinogens: the case of sewage workers in Paris." *BMC Cancer* **2008**, *8*:67; doi:10.1186/1471-2407-8-67.

Alaee M, D'Sa I, Bennett E, and Letcher R. "Levels of Triclosan and Methyl Triclosan in the Plasma of Fish from the Detroit River." *Organohalogen Compounds* **2003**, *62*:136-139.

Alagoz BAZ, Kocasoy G, and Kilic M. "Remedial measures for the safe management of the health-care wastes in Istanbul." *Fresenius Environmental Bulletin* **2006**, *15*(8A, SI):763-770.

Al-Ahmad A, Daschner FD, and Kümmerer K. "Biodegradability of cefotiam, ciprofloxacin, meropenem, penicillin G, and sulfamethoxazole and inhibition of waste water bacteria." *Archives of Environmental Contamination and Toxicology* **1999**, *37*(2):158-163; doi:10.1007/s002449900501.

Al-Ahmad A, Haiß A, Unger J, Brunswick-Tietze A, Wiethan J, and Kümmerer K. "Effects of a Realistic Mixture of Antibiotics on Resistant and Nonresistant Sewage Sludge Bacteria in Laboratory-Scale Treatment Plants." *Archives of Environmental Contamination and Toxicology* **2009**, *57*(2):264-273; doi:10.1007/s00244-008-9259-6.

Al-Ahmad A and Kümmerer K. "Biodegradation of the antineoplastics vindesine, vincristine, and vinblastine and their toxicity against bacteria in the aquatic environment." *Cancer Detection and Prevention* **2001**, *25*(1):102-107.

Al-Ahmad A and Kümmerer K. "Biodegradability of antibiotics and effects on waste water treatment bacteria." in DIA workshop on

Environ risk assessment of non-GMO pharmaceuticals, London, England, 12-13 February, 2001.

Al-Ahmad A, Kümmerer K, and Schön G. "Biodegradation and Toxicity of the Antineoplastics Mitoxantron Hydrochloride and Treosulfane in the Closed Bottle Test (OECD 301 D)." *Bulletin of Environmental Contamination and Toxicology* **1997**, *58*(5):704-711; doi:10.1007/s001289900390.

Alaton IA, Dogruel S, Baykal E, and Gerone G. "Combined chemical and biological oxidation of penicillin formulation effluent." *Journal of Environment Management* **2004**, *73*(2):155-163; doi:10.1016/j.jenvman.2004.06.007.

Al-Bahry SN, Mahmoud IY, Al-Belushi KIA, Elshafie AE, Al-Harthy A, and Bakheit CK. "Coastal sewage discharge and its impact on fish with reference to antibiotic resistant enteric bacteria and enteric pathogens as bio-indicators of pollution." *Chemosphere* **2009**, *77*(11):1534-1539; doi:10.1016/j.chemosphere.2009.09.052.

Albany Medical Center. "Policy and Procedure: Medication Distribution - Medication Delivery and Return." Docket EPA-HQ-OW-2006-0771, DCN 06078, 23 January 2007.

Alberts B. "Science and human needs." in President's Address to the National Academy of Sciences, 137th Annual Meeting, Washington, DC, 1 May, 2000, http://www.nasonline.org/site/DocServer/2000address.pdf?docID=982.

Albertus JA and Laine RO. "Enhanced xenobiotic transporter expression in normal teleost hepatocytes: response to environmental and chemotherapeutic toxins." *Journal of Experimental Biology* **2001**, *204*(2):217-227.

Alburty DS and Murowchick P. "Investigation into the Impact Of Air Pressure Driven Drug Dispensing Machines On the Environment of Pharmacy Workers. Results in 15 U.S. Pharmacies - McKesson/Parata RDS - ScriptPro SP 200 - Manual Dispensing. Comprehensive Technical Report." McKesson/Parata RDS - McKesson/Parata Max, Alburty Lab Inc. and Missouri Engineering Labs, Eds., Drexel, Missouri, 15 October, 2008, 286 pp; http://www.alburtylab.com/userfiles/file/10-15-08%20Tech%20Report.pdf.

Alburty DS and Murowchick P. "Active Pharmaceutical Ingredients Released by Oral Medication Dispensing Robots." presented at AAAR 27th Annual Conference and Exposition, 22 October, at Orlando, FL, 2008; http://www.alburtylab.com/alburty7c.05_102208.pps.

Alburty DS and Murowchick P. "Investigation into the Impact Of Air Pressure Driven Drug Dispensing Machines On the Environment of Pharmacy Workers. Results in Two U.S. Pharmacies. Personal Exposure Monitoring." McKesson/Parata RDS - McKesson/Parata Max, Alburty Lab Inc. and Missouri Engineering Labs, Eds., Drexel, Missouri, 27 July, 2009, 57 pp; http://www.alburtylab.com/userfiles/file/Peer%20Review%20of%20PEM%20Pharmautomation%20Study%20Phamacies%20R-S%20072709.pdf.

Alburty DS and Murowchick P. "Investigation into the Impact Of Air Pressure Driven Drug Dispensing Machines On the Environment of Pharmacy Workers. Results in Two U.S. Pharmacies - McKesson/Parata Max." McKesson/Parata RDS - McKesson/Parata Max, Alburty Lab Inc. and Missouri Engineering Labs, Eds., Drexel, Missouri, 6 January, 2009, 50 pp; http://www.alburtylab.com/pdf/paratamax_20090106.pdf.

Alcock RE, Sweetman A, and Jones KC. "Assessment of organic contaminant fate in waste water treatment plants I: Selected compounds and physicochemical properties." *Chemosphere* **1999**, *38*(10):2247-2262; doi:10.1016/S0045-6535(98)00444-5.

Alder AC, Bruchet A, Carballa M, Clara M, Joss A, Löffler D*, et al.* "Consumption and Occurence." in *Human pharmaceuticals, hormones and fragrances: The challenge of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, UK, 2007, Chapter 2, pp 15-54; http://books.google.com/books?id=X9Sb4mVGF-oC&dq=Human+pharmaceuticals,+hormones+and+fragrances:++The+challenge+of+micropollutants+in+urban+water+management&printsec=frontcover&source=bn&hl=en&ei=DzGcSuP5NqWEmQeYscjABA&sa=X&oi=book_result&ct=result&resnum=4#v=onepage&q=&f=false.

Alder AC, McArdell CS, Golet EM, Ibric S, Molnar E, Nipales NS*, et al.* "Occurrence and fate of fluoroquinolone, macrolide, and sulfonamide antibiotics during wastewater treatment and in ambient waters in Switzerland." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 3, pp 56-69; doi:10.1021/bk-2001-0791.ch003; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Alder AC, McArdell CS, Golet EM, Kohler H-PE, Molnar E, Thi NAP*, et al.* "Environmental exposure of antibiotics in wastewaters, sewage sludges and surface waters in Switzerland." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 5, pp 56-69.

Alder AC, Schaffner C, Majewsky M, Klasmeier J, and Fenner K. "Fate of β-blocker human pharmaceuticals in surface water: Comparison of measured and simulated concentrations in the Glatt Valley Watershed, Switzerland." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.10.002.

Alderman DJ. "Requirements for the Approval of Veterinary Therapeutics or Growth Enhancers Used in Fish Production: European Union." in *Xenobiotics in Fish*, Smith DJ, Gingerich WH and Beconi-Barker MG, Eds., Kluwer Academic/Plenum Publishers; New York, 1999, Chapter 3, pp 25-38; http://bookshop.blackwell.co.uk/jsp/id/Xenobiotics_in_Fish/9780306461897#synopsis.

Al-Dirbashi O, Qvarnstrom J, Irgum K, and Nakashima K. "Simple and sensitive high-performance liquid chromatographic determination of methamphetamines in human urine as derivatives of 4-(4,5-diphenyl-1H-imidazol-2-yl) benzoyl chloride, a new fluorescence derivatization reagent." *Journal of Chromatography B: Biomedical Sciences and Applications* **1998**, *712*(1-2):105-112; doi:10.1016/S0378-4347(98)00128-5.

Al-Dujaili EAS. "Development and validation of a simple and direct ELISA method for the determination of conjugated (glucuronide) and non-conjugated testosterone excretion in urine." *Clinica Chimica Acta* **2006**, *364*(1-2):172-179; doi:10.1016/j.cccn.2005.06.019.

ALEC "Arizona Laboratory for Emerging Contaminants." 2009, http://www.alec.arizona.edu/.

Aleong SF. "Green medicine: Using lessons from tort law and environment law to hold pharmaceutical manufacturers and authorized distributors liable for injuries caused by counterfeit drugs." 2007 or 2008, 38 pp; http://works.bepress.com/cgi/viewcontent.cgi?article=1000&context=stephanie_aleong.

Alert A. "EPA, Public Interest Advocates Settle RRP Lawsuit—Additional Protections Required." *Alliance Alert* **2009**, *9*(7):1-2.

Alexander SPH, Mathie A, and Peters JA. "Guide to receptors and Channels (GRAC)." *British Journal of Pharmacology* **2008**, *153*(S2):S1-S162; doi:10.1038/sj.bjp.0707746.

Alexoff DL, Vaska P, Marsteller D, Gerasimov T, Li J, Logan J*, et al.* "Reproducibility of ^{11}C-raclopride binding in the rat brain measured with the microPET R4: effects of scatter correction and tracer specific activity." *Journal of Nuclear Medicine* **2003**, *44*(5):815-822.

Alexy R and Kümmerer K. "Antibiotika in der Umwelt [Antibiotics in the environment]." *KA Wasser-Abwasser* **2005**, *52*:563-571.

Alexy R, Kümpel T, Dörner M, and Kümmerer K. "Effects of antibiotics against environmental bacteria studied with simple tests - Are they suitable?" in 11th Annual Meeting of SETAC, Madrid, Spain, 6-10 May, 2001.

Alexy R, Kümpel T, and Kümmerer K. "Assessment of degradation of 18 antibiotics in the Closed Bottle Test." *Chemosphere* **2004**, *57*(6):505-512; doi:10.1016/j.chemosphere.2004.06.024.

Alexy R and Kümmerer K. "Antibiotics for Human Use." in *Organic Pollutants in the Water Cycle*, 1st ed.; Reemtsma T and Jekel M, Eds., Wiley-VCH; Weinheim, Germany, 2006, Chapter 3, pp 65-86; doi:10.1002/352760877X; http://www3.interscience.wiley.com/cgi-bin/summary/112770854/SUMMARY.

Alexy R, Längin A, Schöll A, Sütterlin H, and Kümmerer K. "Pharmazeutische Wirkstoffe, Desinfektionsmittel und Diagnostika mit besonderen strukturellen Eigenschaften in der Umwelt [Pharmaceutical active substances, disinfectants and Diagnostika with special structural characteristics in the environment]." Universitätsklinikum Freiburg, Institut für Umweltmedizin und Krankenhaushygiene, Projekt KU 1271/2-2, July, 2006, 202 pp; http://www.mein-klinikum.de/iuk/live/umweltforschung/projekte/DFG_2.pdf.

Alexy R, Schöll A, Kümpel T, and Kümmerer K. "What do we know about antibiotics in the environment?" in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 17, pp 207-221.

Alexy R, Sommer A, Lange FT, and Kümmerer K. "Local use of antibiotics and their input and fate in a small sewage treatment plant - significance of balancing and analysis on a local scale vs. nationwide scale." *Acta Hydrochimica et Hydrobiologica* **2006**, *34*(6):587-592.

Algros E and Jourdain M-J. "Contamination potentielle des échantillons de stations d'épuration (eaux brutes, eaux traitées, boues) et effluents d'élevage par des molécules pharmaceutiques à usage humain et vétérinaire [Potential contamination of sample from wastewater treatment plants (raw and treated water, sludge) and effluents from breeding by human and veterinary pharmaceutical drugs]." Convention n°04 75 C 0062, 20 February, 2007, 180 pp.

Algros E and Jourdain M-J. "Contamination potentielle des boues de stations d'épuration et effluents d'élevage par des molécules pharmaceutiques à usage humain et vétérinaire [Potential contamination of sludge and effluents of breeding by human and veterinary

pharmaceutical drugs]." Convention n°04 75 C 0062, 20 February, 2007, 124 pp.

Algros E and Jourdain M-J. "Potential contamination of sample from wastewater treatment plants (raw and treated water, sludge) and effluents from breeding by human and veterinary pharmaceutical drugs." ADEME IRH Environment, 2007.

Al-Hadithi NNA. "Determination of drugs and metabolites in water by use of liquid membrane systems and HPLC: method development and application." Doctoral Dissertation, Fakultät für Naturwissenschaften, Department Chemie, Paderborn, Germany, 2007. 127 pp; http://ubdok.uni-paderborn.de/servlets/DocumentServlet?id=5358; http://ubdok.uni-paderborn.de/servlets/DerivateServlet/Derivate-5358/disserta.pdf.

Ali FK, El-Shehawi AM, and Seehy MA. "Micronucleus test in fish genome: A sensitive monitor for aquatic pollution." *African Journal of Biotechnology* **2008**, *7*(5):606-612.

Ali I, Gupta VK, Singh P, and Pant HV. "RPTLC analysis of haloperidol and its metabolites in wastewater after solid-phase extraction." *Journal of Planar Chromatography - Modern TLC* **2005**, *18*(105):388-390; doi:10.1556/JPC.18.2005.5.11.

Ali I, Gupta VK, Singh P, and Pant HV. "Screening of domperidone in wastewater by high performance liquid chromatography and solid phase extraction methods." *Talanta* **2006**, *68*(3):928-931; doi:10.1016/j.talanta.2005.06.027.

Ali I, Hussain I, Saleem K, Aboul-Enein HY, and Bazylak G. "Supramolecular Chiro-Biomedical Assays and Enantioselective HPLC Analyses for Evaluation of Profens as Non-Steroidal Anti-Inflammatory Drugs, Potential Anticancer Agents and Common Xenobiotics." *Current Drug Discovery Technologies* **2008**, *5*(2):105-120; doi:10.2174/157016308784746292.

Ali I, Singh P, Aboul-Enein HY, and Sharma B. "Chiral Analysis of Ibuprofen Residues in Water and Sediment." *Analytical Letters* **2009**, *42*(12):1747 - 1760; doi:10.1080/00032710903060768.

Alighardashi A, Pandolfi D, Potier O, and Pons MN. "Acute sensitivity of activated sludge bacteria to erythromycin." *Journal of Hazardous Materials* **2009**, *172*(2-3):685-692; doi:10.1016/j.jhazmat.2009.07.051.

Alighardashi A, Pandolfi D, Potier O, and Pons MN. "Acute sensitivity of activated sludge bacteria to erythromycin." *Journal of Hazardous Materials* **2009**, *172*(2-3):685-692; doi:10.1016/j.jhazmat.2009.07.051.

Alimpiev S, Grechnikov A, Sunner J, Borodkov A, Karavanskii V, Simanovsky Y*, et al.* "Gas Chromatography/Surface-Assisted Laser Desorption Ionization Mass Spectrometry of Amphetamine-like Compounds." *Analytical Chemistry* **2009**, *81*(3):1255-1261; doi:10.1021/ac802176j.

Aljinovic-Vucic V, Trkulja V, and Lackovic Z. "Content of home pharmacies and self-medication practices in households of pharmacy and medical students in Zagreb, Croatia: findings in 2001 with a reference to 1977." *Croatian Medical Journal* **2005**, *46*(1):74-80.

Allaire SE, Del Castillo J, and Juneau V. "Sorption kinetics of chlortetracyline and tylosin on sandy loam and heavy clay soils." *Journal of Environmental Quality* **2006**, *35*(July-August):969-972; doi:10.2134/jeq2005.0355.

Allard AS, Gunnarsson M, and Svenson A. "Estrogenicity in bile of juvenile rainbow trout as measure of exposure and potential effects of endocrine disruptors." *Environmental Toxicology and Chemistry* **2004**, *23*(5):1187-1193; doi:10.1897/03-210.

Allen Y, Scott AP, Matthiessen P, Haworth S, Thain JE, and Feist S. "Survey of estrogenic activity in United Kingdom estuarine and coastal waters and its effects on gonadal development of the flounder platichthys flesus." *Environmental Toxicology and Chemistry* **1999**, *18*(8):1791-1800; doi:10.1897/1551-5028(1999)018<1791:SOEAIU>2.3.CO;2.

Allmyr M, Adolfsson-Erici M, McLachlan MS, and Sandborgh-Englund G. "Triclosan in plasma and milk from Swedish nursing mothers and their exposure via personal care products." *Science of the Total Environment* **2006**, *372*(1):87-93; doi:10.1016/j.scitotenv.2006.08.007.

Allner B, Wegener G, Knacker T, and Stahlschmidt-Allner P. "Electrophoretic determination of estrogen-induced protein in fish exposed to synthetic and naturally occurring chemicals." *Science of the Total Environment* **1999**, *233*(1-3):21-31; doi:10.1016/S0048-9697(99)00176-X.

Almasi A, Fischer E, and Perjesi P. "A simple and rapid ion-pair HPLC method for simultaneous quantitation of 4-nitrophenol and its glucuronide and sulfate conjugates." *Journal of Biochemical and Biophysical Methods* **2006**, *69*(1-2):43-50; doi:10.1016/j.jbbm.2006.05.002.

Almeida C and Nogueira JMF. "Determination of steroid sex hormones in water and urine matrices by stir bar sorptive extraction and liquid chromatography with diode array detection." *Journal of Pharmaceutical and Biomedical Analysis* **2006**, *41*(4):1303-1311.

Almeida E, Regina M, Rosa MA, and Duran N. "Wastewater treatment by oxidation with ozone." *Quimica Nova* **2004**, *27*(5):818-824.

Almqvist H and Hanaeus J. "Organic hazardous substances in graywater from Swedish households." *Journal of Environmental Engineering* **2006**, *132*(8):901-908; doi:10.1061/(ASCE)0733-9372.

Almroth BC. "Oxidative Damage in Fish Used as Biomarkers in Field and Laboratory Studies." Doctoral Dissertation, University of Gothenburg, Department of Zoology/Zoophysiology, Goteborg, Sweden, 2008. 74 pp; http://gupea.ub.gu.se/dspace/bitstream/2077/10108/3/gupea_2077_10108_3.pdf.

Almroth BC, Sturve J, and Förlin L. "Oxidative damage in rainbow trout caged in a polluted river." *Marine Environment Research* **2008**, *66*(1):90-91; doi:10.1016/j.marenvres.2008.02.032.

Alohan FI. "Responses of two proboscis muscles of neptunea antiqua (mollusca) to some calcium antagonist drugs." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **1993**, *105C*(3):463-469.

Alonso A, Sanchez P, and Martinez JL. "Environmental selection of antibiotic resistance genes." *Environmental Microbiology* **2001**, *3*(1):1-9; doi:10.1046/j.1462-2920.2001.00161.x.

Al-Rajab AJ, Sabourin L, Scott A, Lapen DR, and Topp E. "Impact of biosolids on the persistence and dissipation pathways of triclosan and triclocarban in an agricultural soil." *Science of the Total Environment* **2009**, *407*(23):5978-5985; doi:10.1016/j.scitotenv.2009.08.003.

Al-Rifai JH, Gabelish CL, and Schafer AI. "Occurrence of pharmaceutically active and non-steroidal estrogenic compounds in three different wastewater recycling schemes in Australia." *Chemosphere* **2007**, *69*(5):803-815; doi:10.1016/j.chemosphere.2007.04.069.

Al-Salabi MI, Wallace LJM, and de Koning HP. "A Leishmania major nucleobase transporter responsible for allopurinol uptake is a functional homolog of the Trypanosoma brucei H2 transporter." *Molecular Pharmacology* **2003**, *63*(4):814-820.

Alslev B, Korspaard B, and Bjerregaard P. "Estrogenicity of butylparaben in rainbow trout Oncorhynchus mykiss exposed via food and water." *Aquatic Toxicology* **2005**, *72*(4):295-304; doi:10.1016/j.aquatox.2005.01.005.

Alsop D, Van Der Kraak GJ, Brown SB, Eales JG, Mommsen TP, and Moon TW. "The biology and toxicology of retinoids in fish." in *Biochemistry and Molecular Biology of Fishes*, Elsevier; 2005, Chapter 15, pp 413-428; doi:10.1016/S1873-0140(05)80018-9; http://www.sciencedirect.com/science/article/B8H2T-4P40HRD-M/2/d02e56b182d05a1c3ae9e4d60386546a.

Alsop DH, Brown SB, and VanDerKraak GJ. "Dietary Retinoic Acid Induces Hindlimb and Eye Deformities in Xenopus laevis." *Environmental Science & Technology* **2004**, *38*(23):6290-6299; doi:10.1021/es049765n.

Altenburger R, Boedeker W, Faust M, and Grimme LH. "Regulations for Combined Effects of Pollutants: Consequences From Risk Assessment in Aquatic Toxicology." *Food and Chemical Toxicology* **1996**, *34*(11):1155-1157; doi:10.1016/S0278-6915(97)00088-4.

Altenburger R, Gündel U, Ali-Aycheh M, Hanisch K, Küster A, Rechenberg B*, et al.* "Models for extrapolation of long-term effects of pharmaceuticals in the environment using therapeutic information." *Toxicology Letters* **2009**, *189*(Supplement 1):S191-S192; doi:10.1016/j.toxlet.2009.06.857.

Altenburger R, Walter H, and Grote M. "What Contributes to the Combined Effect of a Complex Mixture?" *Environmental Science & Technology* **2004**, *38*(23):6353-6362; doi:10.1021/es049528k.

Altman RB "PharmGKB: Pharmacogenomics Knowledge Base." NIH PGRN, Pharmacogenetics Research Network and Database 2009; http://www.pharmgkb.org/index.jsp.

Altschuler R. "Do Medications Really Expire?" 9 September, 2002, http://www.rense.com/general29/fom.htm.

Alum A, Yoon Y, Westerhoff P, and Abbaszadegan M. "Oxidation of bisphenol A, 17β-estradiol, and 17α-ethynyl estradiol and byproducts estrogenicity." *Environmental Toxicology and Chemistry* **2004**, *19*(3):257-264; doi:10.1002/tox.20018.

Alvarez D, Jones-Lepp T, Stackelberg PE, Petty J, Huckins J, Furlong ET*, et al.* "Water quality monitoring of pharmaceuticals and personal care products using passive samplers." presented at Environmental Aspects of Pharmaceuticals and Personal Care Products, 22-26 August, at Philadelphia, PA, 2004; http://epa.gov/nerlesd1/bios/daughton/alvarez.pdf.

Alvarez DA, Cranor W, Perkins S, Schroeder V, Werner S, Furlong E*, et al.* "Reconnaissance of Persistent and Emerging Contaminants in the Shenandoah and James River Basins, Virginia, During Spring of 2007." US Department of the Interior and USGS, Open-File Report 2008-1231, 2008. 30 pp; http://pubs.usgs.gov/of/2008/1231/pdf/OF2008-1231.pdf.

Alvarez DA, Cranor WL, Perkins SD, Clark RC, and Smith SB. "Chemical and toxicologic assessment of organic contaminants in surface water using passive samplers." *Journal of Environmental Quality* **2008**, *37*(3):1024-1033; doi:10.2134/jeq2006.0463.

Alvarez DA, Cranor WL, Perkins SD, Schroeder VL, Iwanowicz LR, Clark RC*, et al.* "Reproductive health of bass in the potomac, usa, drainage: part 2. Seasonal occurrence of persistent and emerging organic contaminants." *Environmental Toxicology and Chemistry* **2009**, *28*(5):1084-1095; doi:10.1897/08-417.1.

Alvarez DA, Cranor WL, Perkins SD, Schroeder VL, Werner S, Furlong ET*, et al.* "Investigation of Organic Chemicals Potentially Responsible for Mortality and Intersex in Fish of the North Fork of the Shenandoah River, Virginia, during Spring of 2007." US Department of the Interior and USGS, Open-File Report 2008–1093, 2008. 16 pp; http://www.fnfsr.org/site/Fish%20Kill%20Investigation.html.

Alvarez DA, Huckins JN, Petty JD, Jones-Lepp TL, Stuer-Lauridsen F, Getting DT*, et al.* "Polar organic chemical integrative sampler (POCIS)." in *Passive Sampling Techniques: Comprehensive Analytical Chemistry*, Greenwood R, Mills G and Vrana B, Eds., Elsevier; 2007, pp 171-197; http://www.elsevier.com/wps/find/bookdescription.cws_home/711413/description#description.

Alvarez DA, Petty JD, and Huckins JN. "Development of an Integrative Sampler for Polar Organic Chemicals in Water, Paper #4, Issues in the Analysis of Environmental Endocrine Disruptors." in 219th National Meeting of the AmChemical Society, San Francisco, CA, American Chemical Society, 27 March, 2000, 40 71-74 pp.

Alvarez DA, Petty JD, Huckins JN, Jones-Lepp TL, Getting DT, and Manahan SE. "Development of a passive, in situ, integrative sampler for hydrophilic organic contaminants in aquatic environments." *Environmental Toxicology and Chemistry* **2004**, *23*(7):1640-1648; doi:10.1897/03-603.

Alvarez DA, Stackelberg PE, Petty JD, Huckins JN, Furlong ET, Zaugg SD*, et al.* "Comparison of a novel passive sampler to standard water-column sampling for organic contaminants associated with wastewater effluents entering a New Jersey stream." *Chemosphere* **2005**, *61*(5):610-622; doi:10.1016/j.chemosphere.2005.03.023.

Álvarez-Muñoz D, Gómez-Parra A, Blasco J, Sarasquete C, and González-Mazo E. "Oxidative stress and histopathology damage related to the metabolism of dodecylbenzene sulfonate in Senegalese sole." *Chemosphere* **2009**, *74*(9):1216-1223; doi:10.1016/j.chemosphere.2008.11.032.

Aly FA, Al-Tamimi SA, and Alwarthan AA. "Determination of flufenamic acid and mefenamic acid in pharmaceutical preparations and biological fluids using flow injection analysis with tris(2,2'-bipyridyl)ruthenium(II) chemiluminescence detection." *Analytica Chimica Acta* **2000**, *416*(1):87-96; doi:10.1016/S0003-2670(00)00855-2.

Alyea RA and Watson CS. "Differential Regulation of Dopamine Transporter Function and Location by Low Concentrations of Environmental Estrogens and 17β-estradiol." *Environmental Health Perspectives* **2009**, *117*(5):778-783; doi:10.1289/ehp.0800026.

Alzieu C and Romana LA. "Pharmaceuticals: New contaminants of the marine environment?" *Environment, Risques & Sante* **2006**, *5*(4):330-324.

Amadasi A, Mozzarelli A, Meda C, Maggi A, and Cozzini P. "Identification of Xenoestrogens in Food Additives by an Integrated in Silico and in Vitro Approach." *Chemical Research in Toxicology* **2009**, *22*(1):52-63; doi:10.1021/tx800048m.

Amalric L and Bristeau S. "Determination of pharmaceutical compounds in surface and ground waters in Loire-Bretagne basin." BRGM, BRGM/RP-55578-FR, Orleans, France, 2007.

Aman CS, Pastor A, Cighetti G, and de la Guardia M. "Development of a multianalyte method for the determination of anabolic hormones in bovine urine by isotope-dilution GC-MS/MS." *Analytical and Bioanalytical Chemistry* **2006**, *386*(6):1869-1879; doi:10.1007/s00216-006-0739-0.

Amanuma K, Tone S, Nagaya M, Matsumoto M, Watanabe T, Totsuka Y*, et al.* "Mutagenicity of 2-[2-(acetylamino)-4-[bis(2-hydroxyethyl)amino]-5-methoxyphenyl]- 5-amino-7-bromo-4-chloro-2H-benzotriazole (PBTA-6) and benzo[a]pyrene (BaP) in the gill and hepatopancreas of rpsL transgenic zebrafish." *Mutation Research/Genetic Toxicology and Environmental Mutagenesis* **2008**, *656*(1-2):36-43; doi:10.1016/j.mrgentox.2008.07.001.

Amanzio M and Benedetti F. "Neuropharmacological dissection of placebo analgesia: Expectation-activated opioid systems versus conditioning-activated specific subsystems." *Journal of Neuroscience* **1999**, *19*(1):484-494.

Amaral L. "Reversal of antibiotic resistance by non-antibiotic antimicrobial agents." *Antibiotics Chemotherapy* **2000**, *4*(2):4.

Amaral Mendes JJ. "The endocrine disrupters: a major medical challenge." *Food and Chemical Toxicology* **2002**, *40*(6):781-788; doi:10.1016/S0278-6915(02)00018-2.

Ambrosi A, Antiochia R, Campanella L, Dragone R, and Lavagnini I. "Electrochemical determination of pharmaceuticals in spiked water samples." *Journal of Hazardous Materials* **2005**, *122*(3):219-225; doi:10.1016/j.jhazmat.2005.03.011.

American Public Health Association, Center for Science in the Public Interest, Environmental Defense, Global Resource Action Center for the Environment, Institute for Agriculture and Trade Policy, Natural Resources Defense Council*, et al.* "Letter to the U.S. Environmental Protection Agency." **2000**, 3 pp.

Amiard J-C, Bodineau L, Bragigand V, Minier C, and Budzinski H. "Quantification of Contaminants." in *Environmental Assessment of Estuarine Ecosystems: A Case Study*, Amiard-Triquet C and Rainbow PS, Eds., CRC Press; 2009, Chapter 3, pp 31-58; http://books.google.com/books?hl=en&lr=&id=kgg2aDMLQJoC&oi=fnd&pg=PA31&dq=ternes+sewage+pharmaceutical+OR+drug+OR+ppcps+OR+phacs+-elsevier&ots=w8kFH-fznK&sig=tX2Evm9GCU1QTbN6Nh_Z33yQXWY#v=onepage&q=ternes%20sewage%20pharmaceutical%20OR%20drug%20OR%20ppcps%20OR%20phacs%20-elsevier&f=false.

Amidon GL, Lennernas H, Shah VP, and Crison JR. "A theoretical basis for a biopharmaceutic drug classification: the correlation of in vitro drug product dissolution and in vivo bioavailability." *Pharmaceutical Research* **1995**, *12*(3):413-420.

Amin MM, Zilles JL, Greiner J, Charbonneau S, Raskin L, and Morgenroth E. "Influence of the Antibiotic Erythromycin on Anaerobic Treatment of a Pharmaceutical Wastewater." *Environmental Science & Technology* **2006**, *40*(12):3971-3977.

Aminov RI. "The role of antibiotics and antibiotic resistance in nature." *Environmental Microbiology* **2009**, *In press*; doi:10.1111/j.1462-2920.2009.01972.x.

Aminov RI, Chee-Sanford JC, Garrigues N, Teferedegne B, Krapac IJ, White BA*, et al.* "Development, Validation, and Application of PCR Primers for Detection of Tetracycline Efflux Genes of Gram-Negative Bacteria." *Applied and Environmental Microbiology* **2002**, *68*(4):1786-1793; doi:10.1128/AEM.68.4.1786-1793.2002.

Amiri M, Shahrokhian S, Psillakis E, and Marken F. "Electrostatic accumulation and determination of triclosan in ultrathin carbon nanoparticle composite film electrodes." *Analytica Chimica Acta* **2007**, *593*(1):117-122; doi:10.1016/j.aca.2007.04.042.

Amitai Y, Whitesell L, and Lovejoy FH, Jr. "Death following accidental lidocaine overdose in a child." *New England Journal of Medicine* **1986**, *314*(3):182-183.

Amod F, Chetty K, Essa AS, Hiela L, Maharaj C, and Oosthuizen F. "A Pilot Study to Determine Public Trends in Storage and Disposal of Medicines." *SA Pharmaceutical Journal* **2008**:7-10.

Amore BM, Kalhorn TF, Skiles GL, Hunter AP, Bennett GD, Finnell RH*, et al.* "Characterization of Carbamazepine Metabolism in a Mouse Model of Carbamazepine Teratogenicity." *Drug Metabolism and Disposition* **1997**, *25*(8):953-962.

An J, Zhou Q, Sun F, and Zhang L. "Ecotoxicological effects of paracetamol on seed germination and seedling development of wheat (Triticum aestivum L.)." *Journal of Hazardous Materials* **2009**, *169*(1-3):751-757; doi:10.1016/j.jhazmat.2009.04.011.

An J, Zhou Q, Sun Y, and Xu Z. "Ecotoxicological effects of typical personal care products on seed germination and seedling development of wheat (Triticum aestivum L.)." *Chemosphere* **2009**, *76*(10):1428-1434; doi:10.1016/j.chemosphere.2009.06.004.

An J and Zhou Q-X. "Review on the residue levels of PPCPs in the sewage treatment and the corresponding intensified technologies." *Journal of Safety and Environment / Anquan Yu Huanjing Xuebao* **2009**, *9*(3):24-28.

An L, Hu J, and Yang M. "Evaluation on Estrogenicity of Sewage Effluent and Reclaimed Water Using Vitellogenin as a Biomarker." *Environmental Toxicology and Chemistry* **2007**, *27*(1):154-158.

Andersen H, Siegrist H, Halling-Sørensen B, and Ternes TA. "Fate of estrogens in a municipal sewage treatment plant." *Environmental Science & Technology* **2003**, *37*(18):4021-4026; doi:10.1021/es026192a.

Andersen HR and D'Aco V. "Bounding analysis for EE2 concentrations in surface water and the 'sewage cycle'." **2008**.

Andersen HR, Hansen M, Kjolholt J, Stuer-Lauridsen F, Ternes T, and Halling-Sorensen B. "Assessment of the importance of sorption for steroid estrogens removal during activated sludge treatment." *Chemosphere* **2005**, *61*(1):139-146; doi:10.1016/j.chemosphere.2005.02.088.

Andersen HR, Wollenberger L, Halling-S, oslash, rensen B, and Kusk KO. "Development of copepod nauplii to copepodites - a parameter for chronic toxicity including endocrine disruption." *Environmental Toxicology and Chemistry* **2001**, *20*(12):2821-2829; doi:10.1897/1551-5028(2001)020<2821:DOCNTC>2.0.CO;2.

Andersen L, Goto-Kazeto R, Trant JM, Nash JP, Korsgaard B, and Bjerregaard P. "Short-term exposure to low concentrations of the synthetic androgen methyltestosterone affects vitellogenin and steroid levels in adult male zebrafish (Danio rerio)." *Aquatic Toxicology* **2006**, *76*(3-4):343-352; doi:10.1016/j.aquatox.2005.10.008.

Andersen L, Holbech H, Gessbo, Norrgren L, and Petersen GI. "Effects of exposure to 17α-ethinylestradiol during early development on sexual differentiation and induction of vitellogenin in zebrafish (Danio rerio)." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2003**, *134*:365-374; doi:10.1016/S1532-0456(03)00006-1.

Andersen L, Petersen GI, Hylland K, and Norrgren L. "Suitability of using the zebrafish (Danio rerio) in the detection of endocrine disrupting effects. A literature study." TemaNord 2000:555, Bernan, Lanham, MD, USA, May, 2000, 15-33 pp; http://www.norden.org/pub/ebook/2000-555.pdf.

Andersen M and Dennison J. "Toxicokinetic Models: Where We've Been and Where We Need to Go!" *Human and Ecological Risk Assessment* **2002**, *8*(6):1375-1396; doi:10.1080/20028091057411.

Andersen SR and Sandaa RA. "Distribution of Tetracycline Resistance Determinants among Gram-Negative Bacteria Isolated from Polluted and Unpolluted Marine Sediments." *Applied and Environmental Microbiology* **1994**, *60*(3):908-912.

Andersen WC, Roybal JE, Gonzales SA, Turnipseed SB, Pfenning AP, and Kuck LR. "Determination of tetracycline residues in shrimp and whole milk using liquid chromatography with ultraviolet detection and residue confirmation by mass spectrometry." *Analytica Chimica Acta* **2005**, *529*(1-2):145-150; doi:10.1016/j.aca.2004.08.012.

Anderson L. "Low-level pharmaceuticals and personal care products in the waters of Michigan." Doctoral Dissertation, Western Michigan University, Kalamazoo, MI, 2009. 186 pp.

Anderson MJ, Miller MR, and Hinton DE. "In vitro modulation of 17-β-estradiol induced vitellogenin synthesis: effects of cytochrome P450A1 inducing compounds on rainbow trout (Oncorhynchus mykiss) liver cells." *Aquatic Toxicology* **1996**, *34*(4):327-350; doi:10.1016/0166-445X(95)00047-8.

Anderson PD. "Technical Brief: Endocrine Disrupting Compounds and Implications for Wastewater Treatment." Water Environment Research Foundation (WERF), 2005, 48 pp; http://www.werf.org/AM/Template.cfm?Section=Home&TEMPLATE=/CM/ContentDisplay.cfm&CONTENTID=5045.

Anderson PD, D'Aco VJ, Shanahan P, Chapra SC, Buzby ME, Cunningham VL*, et al.* "Screening analysis of human pharmaceutical compounds in US surface waters." *Environmental Science & Technology* **2004**, *38*(3):838-849; doi:10.1021/es034430b.

Anderson S, Luffer-Atlas D, and Knadler MP. "Predicting Circulating Human Metabolites: How Good Are We?" *Chemical Research in Toxicology* **2009**, *22*(2):243-256; doi:10.1021/tx8004086.

Andersson C. "Evaluation of Biomarker Responses in Fish: with Special Emphasis on Gill EROD Activity." Doctoral Dissertation, Uppsala University, Uppsala, Sweden, 2007. 60 pp; http://urn.kb.se/resolve?urn=urn:nbn:se:uu:diva-8222.

Andersson C, Katsiadaki I, Lundstedt-Enkel K, and Orberg J. "Effects of 17α-ethynylestradiol on EROD activity, spiggin and vitellogenin in three-spined stickleback (Gasterosteus aculeatus)." *Aquatic Toxicology* **2007**, *83*(1):33-42; doi:10.1016/j.aquatox.2007.03.008.

Andersson J, Woldegiorgis A, Remberger M, Kaj L, Ekheden Y, Dusan B*, et al.* "Results from the Swedish national screening programme 2005 - Sub report 1 antibiotics, anti-inflammatory substances and hormones." IVL Swedish Environmental Research Institute Ltd, Stockholm, Sweden, 18 September, 2006, 100 pp; http://www3.ivl.se/rapporter/pdf/B1689.pdf.

Andersson L. "Pharmaceutical pollution: The treatment of drinking water." University of Ottawa http://www.science.uottawa.ca/~gblou656/cours_seminaireEVS/presentations/L%20Andersson.pdf.

Ando T, Nagase H, Eguchi K, Hirooka T, Nakamura T, Miyamoto K*, et al.* "A novel method using cyanobacteria for ecotoxicity test of veterinary antimicrobial agents." *Environmental Toxicology and Chemistry* **2007**, *26*(4):601-606; doi:10.1897/06-195R.1.

Andow D, Daniell H, Gepts P, Lamkey K, Natziger E, and Strayer D. "A Growing Concern - Protecting the Food Supply in an Era of Pharmaceutical and Industrial Crops." Union of Concerned Scientists, Andow D, Ed., Cambridge, MA, 2004, 132 pp; http://www.ucsusa.org/food_and_environment/genetic_engineering/pharmaceutical-and-industrial-crops-a-growing-concern.html.

Andrade LS, de Moraes MC, Rocha-Filho RC, Fatibello-Filho O, and Cass QB. "A multidimensional high performance liquid chromatography method coupled with amperometric detection using a boron-doped diamond electrode for the simultaneous determination of sulfamethoxazole and trimethoprim in bovine milk." *Analytica Chimica Acta* **2009**, *654*(2):127-132; doi:10.1016/j.aca.2009.09.035.

Andreadakis AD, Kalergis CM, Kartsonas N, and Anagnostopoulos D. "Determination of the impact of toxic inflows on the performance of activated sludge by wastewater characterization." *Water Science and Technology* **1997**, *36*(2):45-52; doi:10.1016/S0273-1223(97)00368-5.

Andremont A, Brun-Buisson C, and Struelens M. "Evaluating and predicting the ecologic impact of antibiotics." *Clinical Microbiology and Infection* **2001**, *7*(5):1-6; doi:10.1046/j.1469-0691.2001.00065.x.

Andreozzi R, Campanella L, Fraysse B, Garric J, Gonnella A, Lo Giudice R*, et al.* "Effects of advanced oxidation processes (AOPs) on the toxicity of a mixture of pharmaceuticals." *Water Science and Technology* **2004**, *50*(5):23-28.

Andreozzi R, Canterino M, Lo Giudice R, Marotta R, Pinto G, and Pollio A. "Lincomycin solar photodegradation, algal toxicity and removal from wastewaters by means of ozonation." *Water Research* **2006**, *40*(3):630-638; doi:10.1016/j.watres.2005.11.023.

Andreozzi R, Canterino M, Marotta R, and Paxeus N. "Antibiotic removal from wastewaters: the ozonation of amoxicillin." *Journal of Hazardous Materials* **2005**, *122*(3):243-250; doi:10.1016/j.jhazmat.2005.03.004.

Andreozzi R, Caprio V, Ciniglia C, De Champdore M, Lo Giudice R, Marotta R*, et al.* "Antibiotics in the environment: Occurrence in Italian STPs, fate, and preliminary assessment on algal toxicity of amoxicillin." *Environmental Science & Technology* **2004**, *38*(24):6832-6838; doi:10.1021/es049509a.

Andreozzi R, Caprio V, Marotta R, and Radovnikovic A. "Ozonation and H_2O_2/UV treatment of clofibric acid in water: A kinetic investigation." *Journal of Hazardous Materials* **2003**, *103*(3):233-246; doi:10.1016/j.jhazmat.2003.07.001.

Andreozzi R, Caprio V, Marotta R, and Vogna D. "Paracetamol oxidation from aqueous solutions by means of ozonation and H_20_2/UV system." *Water Research* **2003**, *37*(5):993-1004; doi:10.1016/S0043-1354(02)00460-8.

Andreozzi R, Cesaro R, Marotta R, and Pirozzi F. "Evaluation of biodegradation kinetic constants for aromatic compounds by means of aerobic batch experiments." *Chemosphere* **2006**, *62*(9):1431-1436; doi:10.1016/j.chemosphere.2005.05.041.

Andreozzi R, Marotta R, Pinto G, and Pollio A. "Carbamazepine in water: persistence in the environment, ozonation treatment and preliminary assessment on algal toxicity." *Water Research* **2002**, *36*(11):2869-2877; doi:10.1016/S0043-1354(01)00500-0.

Andreozzi R, Raffaele M, and Nicklas P. "Pharmaceuticals in STP effluents and their solar photodegradation in aquatic environment." *Chemosphere* **2003**, *50*(10):1319-1330; doi:10.1016/S0045-6535(02)00769-5.

Andresen JA, Muir D, Ueno D, Darling C, Theobald N, and Bester K. "Emerging pollutants in the north sea in comparison to Lake Ontario, Canada, data." *Environmental Toxicology and Chemistry* **2007**, *26*(6):1081-1089; doi:10.1897/06-416R.1.

Andreu V, Blasco C, and Pico Y. "Analytical strategies to determine quinolone residues in food and the environment." *Trends in Analytical Chemistry* **2007**, *26*(6):534-556; doi:10.1016/j.trac.2007.01.010.

Andreu V, Vazquez-Roig P, Blasco C, and Picó Y. "Determination of tetracycline residues in soil by pressurized liquid extraction and liquid chromatography tandem mass spectrometry." *Analytical and Bioanalytical Chemistry* **2009**, *394*(5):1329-1339; doi:10.1007/s00216-009-2635-x.

Anene BM, Onah DN, and Nawa Y. "Drug resistance in pathogenic African trypanosomes: what hopes for the future?" *Veterinary Parasitology* **2001**, *96*(2):83-100; doi:10.1016/S0304-4017(00)00427-1.

Angenent LT, Mau M, George U, Zahn JA, and Raskin L. "Effect of the presence of the antimicrobial tylosin in swine waste on

anaerobic treatment." *Water Research* **2008**, *42*(10-11):2377-2384; doi:10.1016/j.watres.2008.01.005.

Angus RA, Stanko J, Jenkins RL, and Watson RD. "Effects of 17α-ethynylestradiol on sexual development of male western mosquitofish (Gambusia affinis)." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2005**, *140*(3-4):330-339; doi:10.1016/j.cca.2005.03.008.

Ania CO, Parra JB, Menéndez JA, and Pis JJ. "Microwave-assisted regeneration of activated carbons loaded with pharmaceuticals." *Water Research* **2007**, *41*(15):3299-3306; doi:10.1016/j.watres.2007.05.006.

Añiabarro B and Seoane FJ. "Adverse reaction to Lidocaine." *Allergy* **1998**, *53*(7):717-718; doi:10.1111/j.1398-9995.1998.tb03961.x.

Ankley G. "Assessment of the Ecological Risks of Endocrine-Disrupting Chemicals (EDCs): Derivation of WQC and Consideration of Concentrated Animal Feeding Operations as a Source." Power Point Presentation, The OW/ORD Seminar Series, USEPA, 10 December 2008.

Ankley GT, Bencic DC, Breen MS, Collette TW, Conolly RB, Denslow ND*, et al.* "Endocrine disrupting chemicals in fish: Developing exposure indicators and predictive models of effects based on mechanism of action." *Aquatic Toxicology* **2009**, *92*(3):168-178; doi:10.1016/j.aquatox.2009.01.013.

Ankley GT, Black MC, Garric J, Hutchinson TH, and Iguchi T. "A framework for assessing the hazard of pharmaceutical materials to aquatic species." in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Williams RT, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 6, pp 183-237; http://oaspub.epa.gov/eims/xmlreport.display?deid=104026&z_chk=28718&format=print.

Ankley GT, Brooks BW, Huggett DB, and Sumpter JP. "Repeating History: Pharmaceuticals in the environment." *Environmental Science & Technology* **2007**, *41*(24):8211-8217.

Ankley GT, Daston GP, Degitz SJ, Denslow ND, Hoke RA, Kennedy SW*, et al.* "Toxicogenomics in regulatory ecotoxicology." *Environmental Science & Technology* **2006**, *40*(13):4055-4065.

Ankley GT, Jensen KM, Kahl MD, Korte JJ, and Makynen EA. "Description and Evaluation of a Short-term Reproduction Test with the Fathead Minnow (*Pimephales promelas*)." *Environmental Toxicology and Chemistry* **2001**, *20*(6):1276-1290.

Ankley GT, Jensen KM, Makynen EA, Kahl MD, Korte JJ, Hornung MW*, et al.* "Effects of the androgenic growth promoter 17-β-trenbolone on fecundity and reproductive endocrinology of the fathead minnow." *Environmental Toxicology and Chemistry* **2003**, *22*(6):1350-1360; doi:10.1897/1551-5028(2003)022<1350:EOTAGP>2.0.CO;2.

Ankley GT, Raanan B, Byington EK, Conerly OD, Daughton CG, Erikson CE*, et al.* "Pharmaceuticals in the Environment: An Interagency Research Strategy." Federal Interagency Work Group on Pharmaceuticals in the Environment (PiE), under the auspices of the Toxics and Risk Subcommittee, Committee on the Environment and Natural Resources, National Science and Technology Council, 7 May, 2009, 61 pp.

Ankley GT and Villeneuve DL. "The fathead minnow in aquatic toxicology: Past, present and future." *Aquatic Toxicology* **2006**, *78*(1):91-102; doi:10.1016/j.aquatox.2006.01.018.

Anon. "Groundwater contamination: An industry update." *Drug & Cosmetic Industry* **1986**, *139*(4):54, 56, 58.

Anon. "Antibiotic resistance in aquatic bacteria." *Marine Pollution Bulletin* **1986**, *17*(7):283; doi:10.1016/0025-326X(86)90188-8.

Anon, "Hormone mimics: They're in our food; should we worry?" *Consumer Reports*, June, 1998, June: 52-55 pp; http://www.ncbi.nlm.nih.gov/pubmed/10342960.

Anon. "The coast is cleaner." *Environmental Health Perspectives* **1999**, *107*(8):A398-A400.

Anon. "New Regulatory Challenge: Pharmaceuticals in Water." 1999, 4 pp.

Anon. "EPA, CDC collaborate to preserve pesticides." *Chemical & Engineering News* **2000**, *78*(33):26.

Anon. "Canada Scrutinizes Drugs in Water." *Environmental Science & Technology* **2001**, *35*(19):A439.

Anon, "Prescription for trouble." *Consumer Reports*, January, 2001, January 19-22 pp; http://www.accessmylibrary.com/coms2/summary_0286-10577442_ITM.

Anon. "Research Watch: Swine farms contribute to antibiotic resistance." *Environmental Science & Technology* **2001**, *35*(13):282A-282A; doi:10.1021/es012413l.

Anon. "Future Regulations Could Result From Drugs-in-Water Research." 6 May, 2002.

Anon. "NCI/FDA Program to streamline cancer drug development." *Journal of Nuclear Medicine* **2003**, *44*:52N-52N.

Anon, "Healthcare facilities discharge hazardous pharmaceutical waste." *Healthcare Hazard Management Monitor - HHMM - the Newsletter of the Center for Healthcare Environmental Management*, June, 2004, 17 10: 1-6 pp; http://www.ncbi.nlm.nih.gov/pubmed/15181788.

Anon. "Disposal of unused medicines-Concern grows over environmental impacts." *Journal of Environment and Health* **2004**, *66*(10):42.

Anon. "Medicine Gets Personalised." *Chemistry World (Royal Society of Chemistry)* **2005**, *July*.

Anon. "I recently found some prescription medications in my medicine cabinet that were beyond their expiration date. Can these still be used?" *Health News* **2006**, *12*(5):16.

Anon. "Vorkommen der wichtigsten Vertreter aus den einzelnen Indikationsgruppen in der aquatischen Umwelt und im Trinkwasser." 2006-2007? (lastest ref cited 2006), 19 pp; http://www.hilp.de/am-oekologie-literatur.pdf.

Anon. "Scientists To Assess Effects Of Pharmaceutical Pollutants On Bull Sharks." Underwatertimes.com News Service, 2007, 27 September http://www.underwatertimes.com/news.php?article_id=10926357840.

Anon. "Sharks On Drugs? Study's Intriguing Early Results Point To Anti-depressants In Pups." Underwatertimes.com News Service, 2007, 17 July http://www.underwatertimes.com/news.php?article_id=60381049751.

Anon. "Packaging of pharmaceuticals: still too many dangers but several encouraging initiatives." *Prescrire International* **2007**, *16*(89):126-128.

Anon. "Stuck in the mud." *Nature* **2008**, *453*:258; doi:10.1038/453258a.

Anon. "Pharmaceuticals in drinking water raise awareness of the need to increase monitoring of municipal water supplies." *Membrane Technology* **2008**, *2008*(6):10-12; doi:10.1016/S0958-2118(08)70127-7.

Anon "List of withdrawn drugs." Web Page maintained by Wikipedia 2008, http://en.wikipedia.org/wiki/List_of_withdrawn_drugs.

Anon. "Breaking the voodoo spell." *New Scientist* **2009**, (2708).

Anon. "Efficient decomposition of pharmaceuticals through ozonisation." 2009, http://www.engineerlive.com/Process-Engineer/Wastewater_Management/Efficient_decomposition_of_pharmaceuticals_through_ozonisation/21656/.

Antonelli M, Mezzanotte V, and PanouillÃ¨res M. "Assessment of Peracetic Acid Disinfected Effluents by Microbiotests." *Environmental Science & Technology* **2009**, *43*(17):6579-6584; doi:10.1021/es900913t.

Antonic J and Heath E. "Determination of NSAIDs in river sediment samples." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1337-1342; doi:10.1007/s00216-006-0947-7.

Antoniou CV, Koukouraki EE, and Diamadopoulos E. "Analysis of Selected Pharmaceutical Compounds and Endocrine Disruptors in Municipal Wastewater Using Solid-Phase Microextraction and Gas Chromatography." *Water Environment Research* **2009**, *81*(7):664-669; doi:10.2175/106143008X390834.

Antos D and Seidel-Morgenstern A. "Application of gradients in the simulated moving bed process." *Chemical Engineering Science* **2001**, *56*(23):6667-6682; doi:10.1016/S0009-2509(01)00342-6.

Antwi FB, Shama LM, and Peterson RK. "Risk assessments for the insect repellents DEET and picaridin." *Regulatory Toxicology and Pharmacology* **2008**, *51*(1):31-36; doi:10.1016/j.yrtph.2008.03.002.

Anway MD and Skinner MK. "Epigenetic Transgenerational Actions of Endocrine Disruptors." *Endocrinology* **2006**, *147*(6):s43-49; doi:10.1210/en.2005-1058.

Apedaile E, CH2M Hill Canada Limited, and Cole D. "Health aspects of biosolids land application." Ottawa, Ontario, Canada, March, 2002, 181 pp; http://www.nebiosolids.org/pdf/OttawHealth.pdf.

APhA. "Re-Distribution of Medications." American Pharmacists Association, Information APCB, Ed., Docket EPA-HQ-OW-2006-0771, DCN 94953, November, 2006.

Api AM and Ford RA. "Evaluation of the oral subchronic toxicity of HHCB (1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-γ-2-benzopyran) in the rat." *Toxicology Letters* **1999**, *111*(1-2):143-149; doi:10.1016/S0378-4274(99)00175-7.

Api AM and Ford RA. "Evaluation of the dermal subchronic toxicity of diphenyl ether in the rat." *Food and Chemical Toxicology* **2003**, *41*(1):259-264; doi:10.1016/S0278-6915(02)00222-3.

Api AM and Gudi R. "An in vivo mouse micronucleus assay on musk ketone." *Mutation Research/Genetic Toxicology and Environmental Mutagenesis* **2000**, *464*(2):263-267.

Api AM, Lewis EM, Hoberman AM, Christian MS, and Diener RM. "Evaluation of the developmental toxicity of α-methyl-3,4-methylene-dioxyhydrocinnamic aldehyde in rats." *International Journal of Toxicology* **2006**, *25*(2):127-132; doi:10.1080/10915810600609312.

Api AM, Pfitzer EA, and San RHC. "An evaluation of genotoxicity tests with musk ketone." *Food and Chemical Toxicology* **1996**, *34*(7):633-638; doi:10.1016/0278-6915(96)00028-2.

Api AM, Smith RL, Pipino S, Marczylo T, and De Matteis F. "Evaluation of the oral subchronic toxicity of AHTN (7-Acetyl-1,1,3,4,4,6-hexamethyl-1,2,3,4-tetrahydronaphthalene) in the rat." *Food and Chemical Toxicology* **2004**, *42*(5):791-801; doi:10.1016/j.fct.2003.12.016.

Aplenc R, Kent D, Glatzer M, Hoehn JB, Forte G-B, Alderslade R*, et al.* "Inappropriate Drug-Donation Practices in Bosnia and Herzegovina." *New England Journal of Medicine* **1998**, *338*(20):1472-1474; doi:10.1056/nejm199805143382017.

Aplenc R, Kent D, Glatzner M, Hoehn JB, Forte G-B, Alderslade R*, et al.* "Related Letters: Inappropriate drug- donation practices in Bosnia and Herzegovina." *New England Journal of Medicine* **1998**, *338*(20):1472-1474.

Apostolidis S, Chandra T, Demirhan I, Cinatl J, Doerr HW, and Chandra A. "Evaluation of carcinogenic potential of two nitro-musk derivatives, musk xylene and musk tibetene in a host- mediated in vivo/in vitro assay system." *Anticancer Research* **2002**, *22*(5):2657-2662.

Apoteket AB. "Environment and pharmaceuticals." Stockholm, Sweden, Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University, 2006, 142 pp; http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Appendino G, Gibbons S, Giana A, Pagani A, Grassi G, Stavri M*, et al.* "Antibacterial Cannabinoids from Cannabis sativa: A Structure - Activity Study." *Journal of Natural Products* **2008**, *71*(8):1427-1430; doi:10.1021/np8002673.

Appenzeller BMR, Schummer C, Rodrigues SB, and Wennig R. "Determination of the volume of sweat accumulated in a sweat-patch using sodium and potassium as internal reference." *Journal of Chromatography B* **2007**, *852*(1-2):333-337; doi:10.1016/j.jchromb.2007.01.037.

APUA "APUA: Alliance for the Prudent Use of Antibiotics." Web Page maintained by Alliance for the Prudent Use of Antibiotics 2009, http://www.tufts.edu/med/apua/.

Arab Chamjangali M, Bagherian G, and Ameri S. "A new induction period based reaction rate method for determination trace amounts of phenylhydrazine in water samples." *Journal of Hazardous Materials* **2009**, *166*(2-3):701-705; doi:10.1016/j.jhazmat.2008.11.078.

Arana I, Justo JI, Muela A, and Barcina I. "Survival and plasmid transfer ability of Escherichia coli in wastewater." *Water, Air, & Soil Pollution* **2001**, *126*(3-4):223-238; doi:10.1023/A:1005290830222.

Arana J, Nieto JLM, Melian JAH, Rodriguez JMD, Diaz OG, Pena JP*, et al.* "Photocatalytic degradation of formaldehyde containing wastewater from veterinarian laboratories." *Chemosphere* **2004**, *55*(6):893-904; doi:10.1016/j.chemosphere.2003.11.060.

Aranami K and Readman JW. "Photolytic degradation of triclosan in freshwater and seawater." *Chemosphere* **2007**, *66*(6):1052-1056;

doi:10.1016/j.chemosphere.2006.07.010.

Araujo A and McNair J. "Individual- and population-level effects of antibiotics on the rotifers, Brachionus calyciflorus and B. plicatilis." *Hydrobiologia* **2007**, *593*(1):185-199; doi:10.1007/s10750-007-9044-y.

Araujo L, Wild J, Villa N, Camargo N, Cubillan D, and Prieto A. "Determination of anti-inflammatory drugs in water samples, by in situ derivatization, solid phase microextraction and gas chromatography-mass spectrometry." *Talanta* **2008**, *75*(1):111-115; doi:10.1016/j.talanta.2007.10.035.

Arcand-Hoy LD, Nimrod AC, and Benson WH. "Endocrine-modulating substances in the environment: estrogenic effects of pharmaceutical products." *International Journal of Toxicology* **1998**, *17*(2):139-158.

ARCHS. "Prudent Disposal of Unwanted Medications (RxMEDS)." Area Resources for Community and Human Services (ARCHS), 13 July, 2009, 46 pp; http://www.epa.gov/aging/grants/winners/rx-meds-technical-report508.pdf.

Arditsoglou A and Voutsa D. "Passive sampling of selected endocrine disrupting compounds using polar organic chemical integrative samplers." *Environmental Pollution* **2008**, *156*(2):316-324; doi:10.1016/j.envpol.2008.02.007.

Arditsoglou A and Voutsa D. "Determination of phenolic and steroid endocrine disrupting compounds in environmental matrices." *Environmental Science and Pollution Research International* **2008**, *15*(3):228-236; doi:10.1065/espr2007.12.459.

Aresta A, Palmisano F, and Zambonin CG. "Simultaneous determination of caffeine, theobromine, theophylline, paraxanthine and nicotine in human milk by liquid chromatography with diode array UV detection." *Food Chemistry* **2005**, *93*(1):177-181; doi:10.1016/j.foodchem.2004.11.013.

Arias CA and Murray BE. "Antibiotic-Resistant Bugs in the 21st Century -- A Clinical Super-Challenge." *New England Journal of Medicine* **2009**, *360*(5):439-443; doi:10.1056/NEJMp0804651.

Ariese F, Ernst WHO, and Sijm DTHM. "Natural and synthetic organic compounds in the environment--a symposium report." *Environmental Toxicology and Pharmacology* **2001**, *10*(3):65-80; doi:10.1016/S1382-6689(01)00090-4.

Arikan O, Mulbry W, Ingram D, and Millner P. "Minimally managed composting of beef manure at the pilot scale: Effect of manure pile construction on pile temperature profiles and on the fate of oxytetracycline and chlortetracycline." *Bioresource Technology* **2009**, *100*(19):4447-4453; doi:10.1016/j.biortech.2008.12.063.

Arikan OA, Mulbry W, and Rice C. "Management of antibiotic residues from agricultural sources: Use of composting to reduce chlortetracycline residues in beef manure from treated animals." *Journal of Hazardous Materials* **2009**, *164*(2-3):483-489; doi:10.1016/j.jhazmat.2008.08.019.

Arikan OA, Rice C, and Codling E. "Occurrence of antibiotics and hormones in a major agricultural watershed." *Desalination* **2008**, *226*(1-3):121-133; doi:10.1016/j.desal.2007.01.238.

Arikan OA, Sikora LJ, Mulbry W, Khan SU, and Foster GD. "Composting rapidly reduces levels of extractable oxytetracycline in manure from therapeutically treated beef calves." *Bioresource Technology* **2007**, *98*(1):169-176; doi:10.1016/j.biortech.2005.10.041.

Arikan OA, Sikora LJ, Mulbry W, Khan SU, Rice C, and Foster GD. "The fate and effect of oxytetracycline during the anaerobic digestion of manure from therapeutically treated calves." *Process Biochemistry* **2006**, *41*(7):1637-1643; doi:10.1016/j.procbio.2006.03.010.

Aristilde L and Sposito G. "Molecular Modeling of Metal Complexation by a Fluoroquinolone Antibiotic." *Environmental Toxicology and Chemistry* **2008**, *27*(11):2304-2310; doi:10.1897/08-059.1.

Arizona Water Resource. "Endocrine disrupters in water: What are EDs? What risks do they pose?" September-October, 2000, 4 pp.

Armenta S and de la Guardia M. "Analytical methods to determine cocaine contamination of banknotes from around the world." *Trends in Analytical Chemistry* **2008**, *27*(4):344-351; doi:10.1016/j.trac.2008.01.012.

Arnaud CH. "Ion Mobility-Mass Spec Combo." *Chemical & Engineering News* **2008**, *86*(37):11-18.

Arnold S, Gassner B, Giger T, and Zwahlen R. "Banning antimicrobial growth promoters in feedstuffs does not result in increased therapeutic use of antibiotics in medicated feed in pig farming." *Pharmacoepidemiol Drug Safety* **2004**, *13*(5):323-331.

Arnold SF, Bergeron JM, Tran DQ, Collins BM, Vonier PM, Crews D*, et al.* "Synergistic responses of steroidal estrogens in vitro (yeast) and in vivo (turtles)." *Biochemical and Biophysical Research Communications* **1997**, *235*(2):336-342; doi:10.1006/bbrc.1997.6779.

Arnold SF, Klotz DM, Collins BM, Vonier PM, Guillette JLJ, and McLachlan JA. "Synergistic activation of estrogen receptor with combinations of environmental chemicals." *Science* **1996**, *272*(5267):1489-1492. (This paper was later retracted by JA McLachlan); doi:10.1126/science.272.5267.1489.

Arnold SF and McLachlan JA. "Synergistic signals in the environment." *Environmental Health Perspectives* **1996**, *104*(10):1020-1023.

Arnold WA and McNeill K. "Fate and occurrence of pharmaceuticals in the water cycle – Transformation of pharmaceuticals in the environment: Photolysis and other abiotic processes." in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science; 2007, Wilson & Wilson's Comprehensive Analytical Chemistry series (D. Barcelo, Ed.), Chapter 3.2, pp 361-385; http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Arnot JA and Gobas FAPC. "A review of bioconcentration factor (BCF) and bioaccumulation factor (BAF) assessments for organic chemicals in aquatic organisms." *Environmental Reviews* **2006**, *14*(4):257-297; doi:10.1139/A06-005.

Arroll B, Keneally T, and Kerse N. "Do delayed prescriptions reduce the use of antibiotics for the common cold? A single-blind controlled trial." *Journal of Family Practice* **2002**, *514*(4):324-328.

Arslan T and Phelps RP. "Production of monosex male black crappie, Pomoxis nigromaculatus, populations by multiple androgen immersion." *Aquaculture* **2004**, *234*(1-4):561-573; doi:10.1016/j.aquaculture.2003.12.007.

Arslan-Alaton I and Akmehmet Balcioglu I. "Biodegradability Assessment of Ozonated Raw and Biotreated Pharmaceutical Wastewater." *Archives of Environmental Contamination and Toxicology* **2002**, *43*(4):0425-0431; doi:10.1007/s00244-002-1235-y.

Arslan-Alaton I and Caglayan AE. "Ozonation of Procaine Penicillin G formulation effluent - Part I: Process optimization and kinetics." *Chemosphere* **2005**, *59*(1):31-39; doi:10.1016/j.chemosphere.2004.10.014.

Arslan-Alaton I and Caglayan AE. "Toxicity and biodegradability assessment of raw and ozonated procaine penicillin G formulation effluent." *Ecotoxicology and Environmental Safety* **2006**, *63*(1):131-140; doi:10.1016/j.ecoenv.2005.02.014.

Arslan-Alaton I and Dogruel S. "Pre-treatment of penicillin formulation effluent by advanced oxidation processes." *Journal of Hazardous Materials* **2004**, *112*(1-2):105-113; doi:10.1016/j.jhazmat.2004.04.009.

Arslan-Alaton I, Olmez-Hanci T, Gursoy BH, and Tureli G. "H_2O_2/UV-C treatment of the commercially important aryl sulfonates H-, K-, J-acid and Para base: Assessment of photodegradation kinetics and products." *Chemosphere* **2009**, *76*(5):587-594; doi:10.1016/j.chemosphere.2009.04.062.

Artola-Garicano E, Borkent I, Hermens JLM, and Vaes WHJ. "Removal of two polycyclic musks in sewage treatment plants: Freely dissolved and total concentrations." *Environmental Science & Technology* **2003**, *37*(14):3111-3116; doi:10.1021/es020226x.

Artola-Garicano E, Hermens JLM, and Vaes WHJ. "Evaluation of Simple Treat 3.0 for two hydrophobic and slowly biodegradable chemicals: polycyclic musks HHCB and AHTN." *Water Research* **2003**, *37*(18):4377-4384; doi:10.1016/S0043-1354(03)00434-2.

Artola-Garicano E, Sinnige TL, van Holsteijn I, Vaes WHJ, and Hermens JLM. "Bioconcentration and acute toxicity of polycyclic musks in two benthic organisms (Chironomus riparius and Lumbriculus variegatus)." *Environmental Toxicology and Chemistry* **2003**, *22*(5):1086-1092.

Arya S. "Correspondence on Antimicrobial storage and antibiotic resistance and Response to issue of antimicrobial storage." *The Journal of the American Board of Family Medicine* **2008**, *21*(1):168-169; doi:10.3122/jabfm.2008.02.070233.

Arya SC and Agarwal N. "Antimicrobial Storage and Antibiotic Resistance." *The Journal of the American Board of Family Medicine* **2008**, *21*(2):168; doi:10.3122/jabfm.2008.02.070233.

Asakura H and Matsuto T. "Experimental study of behavior of endocrine-disrupting chemicals in leachate treatment process and evaluation of removal efficiency." *Waste Management* **2009**, *29*(6):1852-1859; doi:10.1016/j.wasman.2008.11.030.

Asano T and Cotruvo JA. "Groundwater recharge with reclaimed municipal wastewater: health and regulatory considerations." *Water Research* **2004**, *38*(8):1941-1951; doi:10.1016/j.watres.2004.01.023.

Aschmann SM, Arey J, Atkinson R, and Simonich SL. "Atmospheric Lifetimes and Fates of Selected Fragrance Materials and Volatile Model Compounds." *Environmental Science & Technology* **2001**, *35*(18):3595-3600; doi:10.1021/es010685i.

ASCP. "ASCP Policy Statement on the Return and Reuse of Medications in Long-term Care Facilities." American Society of Consultant Pharmacists, Docket EPA-HQ-OW-2006-0771, DCN 04873, 11 July, 2003, 3 pp; http://www.ascp.com/resources/policy/upload/ASCP%20Policy%20Statement%20on%20Return%20&%20Reuse.pdf.

ASEAN. "Annexe II Part 1: List of substances which must not form part of the composition of cosmetic products." 20 November, 2008, 45 pp; http://www.hsa.gov.sg/publish/etc/medialib/hsa_library/health_products_regulation/cosmetic_products/files_1.Par.44861.File.dat/Annexe%20II%20_Ref%20No%20order_%2020%20Jan%2009.pdf.

ASEAN. "ASEAN harmonized cosmetic regulatory scheme (AHCRS)." 2009, http://www.lsnewsqc.sgs.com/lsnewsqc/lsnewsqc_04/asean_harmonized_cosmetic_regulatory_scheme_ahcrs_lss_newsletter.htm.

ASEAN and CosIng "Annex II: List of substances which must not form part of the composition of cosmetic products." 2009; http://ec.europa.eu/enterprise/cosmetics/cosing/index.cfm?fuseaction=search.results&annex=II&search.

Ash M and Ash I. "Handbook of cosmetic and personal care additives, 2 Volume Set." Synapse Information Resources, Inc., The Handbook of Cosmetic and Personal Care Additives, 2002, 2nd ed., 2048 pp.

Ash M and Ash I. "Handbook of pharmaceutical additives, Second Edition." Synapse Information Resources, Incorporated, Handbook of pharmaceutical additives, Second Edition, 2002, 2nd ed., 1051 pp.

Ash RJ, Mauch B, Moulder W, and Morgan M. "Antibiotic-resistant bacteria in U.S. rivers." in American Society for Microbiology 99th Annual Meeting, Chicago, IL, 1999.

Ash RJ, Mauck B, and Morgan M. "Antibiotic Resistance of Gram-Negative Bacteria in Rivers, United States." *Emerging Infectious Diseases* **2002**, *8*(7):713-716.

Ashauer R, Boxall ABA, and Brown CD. "Modeling combined effects of pulsed exposure to carbaryl and chlorpyrifos on gammarus pulex." *Environmental Science & Technology* **2007**, *41*(15):5535-5541; doi:10.1021/es070283w.

Ashby J. "Testing for endocrine disruption post-EDSTAC: extrapolation of low dose rodent effects to humans." *Toxicology Letters* **2001**, *120*(1-3):233-242; doi:10.1016/S0378-4274(01)00299-5.

Ashby J, Lefevre PA, Odum J, Harris CA, Routledge EJ, and Sumpter JP. "Synergy between synthetic oestrogens?" *Nature* **1997**, *385*(6616):494-494; doi:10.1038/385494a0.

ASHP. "ASHP guidelines on handling hazardous drugs." *American Journal of Health-System Pharmacy* **2006**, *63*:1172-1193.

Ashton D, Hilton M, and Thomas KV. "Investigating the environmental transport of human pharmaceuticals to streams in the United Kingdom." *Science of the Total Environment* **2004**, *333*(1-3):167-184; doi:10.1016/j.scitotenv.2004.04.062.

Asperger D, Mutavdzic D, Babic S, Horvat AJM, and Kastelan-Macan M. "Solid-phase extraction and TLC quantification of enrofloxacin, oxytetracycline, and trimethoprim in wastewater." *Journal of Planar Chromatography - Modern TLC* **2006**, *19*(108):129-134; doi:10.1556/JPC.19.2006.2.8.

Associated Press. "An AP Investigation: Pharmaceuticals Found in Drinking Water." **2008**, http://hosted.ap.org/specials/interactives/pharmawater_site/index.html.

Associated Press. 2008, "How meds in water could impact human cells: Ingesting scant amounts could have powerful effect, experiment shows." msnbc.com, 3 pp; http://www.msnbc.msn.com/id/23558785//.

Associated Press. 2009, "Factories dumping drugs into sewage: Samples taken contained opiates, a barbiturate and a tranquilizer." msnbc.com, http://www.msnbc.msn.com/id/30267705/from/ET/.

Association of Metropolitan Sewerage Agencies (AMSA). "Evaluation of Domestic Sources of Mercury." AMSA Mercury Workgroup, Washington, DC, August, 2000, 31 pp; http://www.amsa-cleanwater.org/pubs/mercury/mercury.cfm.

Astarita A, Della Greca M, Iesce MR, Montanaro S, Previtera L, and Temussi F. "Polycyclic compounds by sunlight exposure of the

drug rosuvastatin in water." *Journal of Photochemistry and Photobiology A: Chemistry* **2007**, *187*(2-3):263-268; doi:10.1016/j.jphotochem.2006.10.007.

AstraZeneca International "Pharmaceuticals in the environment." 2008, http://www.astrazeneca.com/article/511608.aspx.

Athavaley A. "What's coming from your tap?" The Wall Street Journal Online, 2008, 19 August http://online.wsj.com/public/article_print/SB121910526011851511.html.

Atienzar FA, Billinghurst Z, and Depledge MH. "4-n-Nonylphenol and 17-β estradiol may induce common DNA effects in developing barnacle larvae." *Environmental Pollution* **2002**, *120*(3):735-738.

Atkinson S, Atkinson MJ, and Tarrant AM. "Estrogens from sewage in coastal marine environments." *Environmental Health Perspectives* **2003**, *111*(4):531-535.

Atkinson SF, Johnson DR, Venables BJ, Slye JL, Kennedy JR, Dyer SD*, et al.* "Use of watershed factors to predict consumer surfactant risk, water quality, and habitat quality in the upper Trinity River, Texas." *Science of the Total Environment* **2009**, *407*(13):4028-4037; doi:10.1016/j.scitotenv.2009.02.029.

Atoyan JA, Panenaude EL, Potts DA, and Amador JA. "Effects of tetracycline on antibiotic resistance and removal of fecal indicator bacteria in aerated and unaerated leachfield mesocosms." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2007**, *42*(11):1571-1578; doi:10.1080/10934520701513498.

Atrakchi AH. "Interpretation and Considerations on the Safety Evaluation of Human Drug Metabolites." *Chemical Research in Toxicology* **2009**, *22*(7):1217-1220; doi:10.1021/tx900124j.

ATSDR "Chemical mixtures program." Web Page maintained by Agency for Toxic Substances & Disease Registry 2009, http://www.atsdr.cdc.gov/mixtures.html.

Aubry A-F. "Applications of affinity chromatography to the study of drug-melanin binding interactions." *Journal of Chromatography B* **2002**, *768*(1):67-74; doi:10.1016/S0378-4347(01)00486-8.

Audesirk G, Armstrong D, van den Maagdenberg AMJM, Atchison W, Shafer T, and Fletcher C. "Calcium channels: Critical targets of toxicants and diseases." *Environmental Health Perspectives* **2000**, *108*(12):1215-1218.

Auer CM, Biles BAB, and Culleen LE, "Fundamental Changes Could Be in Store for Regulation of Commercial Chemicals." *Daily Environment Report*, BNA, Inc., 13 October, 2009, 195: B1-B5 pp; http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=15414967&vname=dennotallissues&fn=15414967&jd=a0c1a8z0w7&split=0.

Auerbach EA, Seyfried EE, and McMahon KD. "Tetracycline resistance genes in activated sludge wastewater treatment plants." *Water Research* **2007**, *41*(5):1143-1152; doi:10.1016/j.watres.2006.11.045.

Aufdenkampe AK, Arscott DB, Dow CL, and Standley LJ. "Molecular tracers of soot and sewage contamination in streams supplying New York City drinking water." *Journal of the North American Benthological Society* **2006**, *25*(4):928-953.

Augugliaro V, Garcia-Lopez E, Loddo V, Malato-Rodriguez S, Maldonado I, Marci G*, et al.* "Degradation of lincomycin in aqueous medium: Coupling of solar photocatalysis and membrane separation." *Solar Energy* **2005**, *79*(4):402-408; doi:10.1016/j.solener.2005.02.020.

Augulyte L. "Use and Development of Diffusive Samplers to Analyse the Fate of Polycyclic Aromatic Compounds, Polychlorinated Biphenyls and Pharmaceuticals in Wastewater Treatment Processes." Doctoral Dissertation, Umeå University, Umeå, Sweden, 2008. 49 pp; http://www.diva-portal.org/umu/abstract.xsql?dbid=1912.

Aumonier J. "Risk management of pharmaceuticals in the environment: The human pharmaceutical industry viewpoint." in Envirpharma European Conference on human and vetinary pharmaceuticals in the environment, 2003.

Auriol M, Filali-Meknassi Y, Adams CD, and Tyagi RD. "Natural and synthetic hormone removal using the horseradish peroxidase enzyme: Temperature and pH effects." *Water Research* **2006**, *40*(15):2847-2856; doi:10.1016/j.watres.2006.05.032.

Auriol M, Filali-Meknassi Y, Adams CD, Tyagi RD, Noguerol T-N, and Piña B. "Removal of estrogenic activity of natural and synthetic hormones from a municipal wastewater: Efficiency of horseradish peroxidase and laccase from Trametes versicolor." *Chemosphere* **2008**, *70*(3):445-452; doi:10.1016/j.chemosphere.2007.06.064.

Auriol M, Filali-Meknassi Y, Tyagi RD, and Adams CD. "Laccase-catalyzed conversion of natural and synthetic hormones from a municipal wastewater." *Water Research* **2007**, *41*(15):3281-3288; doi:10.1016/j.watres.2007.05.008.

Auriol M, Filali-Meknassi Y, Tyagi RD, Adams CD, and Surampalli RY. "Endocrine disrupting compounds removal from wastewater, a new challenge." *Process Biochemistry* **2006**, *41*(3):525-539; doi:10.1016/j.procbio.2005.09.017.

Aurora Prado MS, Steppe M, Tavares MFM, Kedor-Hackmann ERM, and Santoro MIRM. "Comparison of capillary electrophoresis and reversed-phase liquid chromatography methodologies for determination of diazepam in pharmaceutical tablets." *Journal of Pharmaceutical and Biomedical Analysis* **2005**, *37*(2):273-279; doi:10.1016/j.jpba.2004.10.026.

Auspex Pharmaceuticals "Auspex Pharmaceuticals: Deuterated therapeutics in pipeline." 2009, http://www.auspexpharma.com/Product_Pipeline.html.

Aust M-O, Thiele-Bruhn S, Jandl G, and Leinweber P. "Improved method for the simultaneous determination of sulfonamides in environmental matrices by liquid chromatography -mass spectrometry." *Fresenius Environmental Bulletin* **2008**, *17*(3):331-340.

Austin B. "Antibiotic pollution from fish farms: effects on aquatic microflora." *Microbiological Sciences* **1985**, *2*(4):113-117.

Autier P, Govindaraj R, Gray R, Lakshminarayanan R, Nassery HG, and Schmets G. "Drug donations in post-emergency situations." World Bank, Preker AS, Ed., Washington, DC, 2002, ii-iv pp.

Avella AC, Delgado LF, Görner T, Albasi C, Galmiche M, and de Donato P. "Effect of cytostatic drug presence on extracellular polymeric substances formation in municipal wastewater treated by membrane bioreactor." *Bioresource Technology* **2010**, *101*(2):518-526; doi:10.1016/j.biortech.2009.08.057.

Avery ML, Tillman EA, and Savarie PJ. "Responses of Captive Fish Crows (Corvus ossifragus) to Acetaminophen Baits and Bait Stations for Brown Tree Snake (Boiga irregularis) Control on Guam." *Bird Behavior* **2004**, *16*(1):1-6.

Avisar D, Lester Y, and Mamane H. "pH induced polychromatic UV treatment for the removal of a mixture of SMX, OTC and CIP from water." *Journal of Hazardous Materials* **2009**, *In Press*; doi:10.1016/j.jhazmat.2009.10.122.

Avisar D, Lester Y, and Ronen D. "Sulfamethoxazole contamination of a deep phreatic aquifer." *Science of the Total Environment* **2009**, *407*(14):4278-4282; doi:10.1016/j.scitotenv.2009.03.032.

AVMA. "Judicious and Prudent Antimicrobial Drug Use Principles for Food Fish Veterinarians." American Veterinary Medical Association, 2002, 5 pp; http://www.avma.org/issues/policy/jtua_fish.asp.

AVMA. "Judicious Use of Antimicrobials for Swine Veterinarians." American Veterinary Medical Association, 2008, 8 pp; http://www.avma.org/issues/jtua/jtua_swine.asp.

AWRA. "Contaminants of emerging concern." *Water Resources Impact* **2007**, *9*(3):1-4.

AWWA. "Pharmaceutical compounds in drinking water." **2008**.

AWWA and Gerberding J. "Pharmaceuticals and Personal Care Products (PPCPs) in Drinking Water." American Water Works Association, 2009; http://www.drinktap.org/consumerdnn/Home/WaterInformation/WaterQuality/PharmaceuticalsPPCPs/tabid/73/Default.aspx.

AWWA and WEF. "Using Reclaimed Water to Augment Potable Water Resources, 2nd Edition." AWWA, Water Environment Federation, 2008, 210 pp; http://www.e-wef.org/timssnet/products/tnt_products.cfm?primary_id=P08003&Action=LONG&subsystem=ORD.

AwwaRF. "Endocrine Disruptors / Pharmaceuticals and Personal Care Products Strategic Initiative." Awwa Research Foundation, 2002, http://www.waterresearchfoundation.org/theFoundation/ourPrograms/ResearchProgramSIEDCPPCP.aspx.

AwwaRF. "Evaluation of Conventional and Advanced Treatment Processes to Remove Endocrine Disruptors and Pharmaceutically Active Compounds." Awwa Research Foundation, Project #2758, 2005, http://www.mwra.state.ma.us/04water/html/pharma/awwa.pdf.

AwwaRF. "AwwaRF featured topic: EDCs, PhACs, and PCPs Posted May 26, 2005." Awwa Research Foundation, 2005, 8 pp; http://www.mwra.state.ma.us/04water/html/pharma/awwa.pdf.

AwwaRF. "Endocrine Disruptors, Pharmaceuticals, and Personal Care Products in Drinking Water: An Overview of AwwaRF Research to Date." American Water Works Association Research Foundation, Khiari D, Ed., January/February, 2007, 6 pp; http://www.cwwa.ca/pdf_files/AwwaRF_EDC%20article1.pdf.

AwwaRF. "Removal of EDCs and Pharmaceuticals in Drinking and Reuse Treatment Processes." American Water Works Association Research Foundation, Snyder SA, West EC, Leui HD, Southern Water Authroity HN, Westerhoff P, Yoon Y and Arizona State University T, AZ, Eds., Docket EPA-HQ-OW-2006-0771, DCN 06118, Denver, CO, 2007.

Axelrod D, Burns K, Davis D, and von Larebeke N. ""Hormesis"--an inappropriate extrapolation from the specific to the universal." *International Journal of Occupational and Environmental Health* **2004**, *10*(3):335-339.

Ayenimo J, Yusuf A, Adekunle A, and Makinde O. "Heavy Metal Exposure from Personal Care Products." *Bulletin of Environmental Contamination and Toxicology* **2009**, *In press*; doi:10.1007/s00128-009-9867-5.

Ayora Canada MJ, Pascual Reguera MI, Ruiz Medina A, Fernandez de Cordova ML, and Molina Diaz A. "Fast determination of paracetamol by using a very simple photometric flow-through sensing device." *Journal of Pharmaceutical and Biomedical Analysis* **2000**, *22*(1):59-66; doi:10.1016/S0731-7085(99)00265-4.

Ayscough NJ, Fawell J, Franklin G, and Young W. "Review of Human Pharmaceuticals in the Environment." Environment Agency, 2000, 114 pp.

Azur Environmental "Microtox® Rapid Toxicity Testing System." 2008, http://www.sdimicrotox.com/microtox-products-introduction.asp.

Babcock R, Ray C, and Huang T. "Fate of pharmaceuticals in soil following irrigation with recycled water." *Proceedings of the Water Environment Federation* **2002**, *2002*:204-210; doi:10.2175/193864702784248106.

Babic S, Asperger D, Mutavdzic D, Horvat AJM, and Kastelan-Macan M. "Determination of sulfonamides and trimethoprim in spiked water samples by solid-phase extraction and thin-layer chromatography." *Journal of Planar Chromatography - Modern TLC* **2006**, *18*(106):423-426; doi:10.1556/JPC.18.2005.6.4.

Babic S, Asperger D, Mutavdzic D, Horvat AJM, and Kastelan-Macan M. "Solid phase extraction and HPLC determination of veterinary pharmaceuticals in wastewater." *Talanta* **2006**, *70*(4):732-738; doi:10.1016/j.talanta.2006.07.003.

Babic S, Horvat AJM, Mutavdzic Pavlovic D, and Kastelan-Macan M. "Determination of pKa values of active pharmaceutical ingredients." *Trends in Analytical Chemistry* **2007**, *26*(11):1043-1061; doi:10.1016/j.trac.2007.09.004.

Babic S, Mutavdzic D, Asperger D, Horvat AJM, and Kastelan-Macan M. "Determination of veterinary pharmaceuticals in production wastewater by HPTLC-videodensitometry." *Chromatographia* **2007**, *65*(1-2):105-110; doi:10.1365/s10337-006-0109-2.

Babin M, Boleas S, and Tarazona JV. "In vitro toxicity of antimicrobials on RTG-2 and RTL-W1 fish cell lines." *Environmental Toxicology and Pharmacology* **2005**, *20*(1):125-134; doi:10.1016/j.etap.2004.11.005.

Backhaus T, Altenburger R, Boedeker W, Faust M, Scholze M, and Grimme LH. "Predictability of the toxicity of a multiple mixture of dissimilarly acting chemicals to vibrio fisheri." *Environmental Toxicology and Chemistry* **2000**, *19*(9):2348-2356; doi:10.1897/1551-5028(2000)019<2348:POTTOA>2.3.CO;2.

Backhaus T and Grimme LH. "The toxicity of antibiotic agents to the luminescent bacterium Vibrio fischeri." *Chemosphere* **1999**, *38*(14):3291-3301; doi:10.1016/S0045-6535(98)00560-8.

Backhaus T, Scholze M, and Grime LH. "The single substance and mixture toxicity of quinolones to the bioluminescent bacterium Vibrio fischeri." *Aquatic Toxicology* **2000**, *49*(1-2):49-61; doi:10.1016/S0166-445X(99)00069-7.

Backhaus T, Sumpter J, and Blanck H. "On the ecotoxicology of pharmaceutical mixtures." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 16, pp 257-276; doi:10.1007/978-3-540-74664-5_16; http://www.springerlink.com/content/t3qpq81204445123/?p=97dfb90332264725bf4ef8a85570afc6&pi=15.

Badawy MI, Wahaab RA, and Alkalliny AS. "Fenton-Biological Treatment Processes for the Removal of Some Pharmaceuticals from Industrial Wastewater." *Journal of Hazardous Materials* **2009**, *167*(1-3):567-574; doi:10.1016/j.jhazmat.2009.01.023.

Badjagbo K, Furtos A, Alaee M, Moore S, and Sauvé S. "Direct Analysis of Volatile Methylsiloxanes in Gaseous Matrixes Using Atmospheric Pressure Chemical Ionization-Tandem Mass Spectrometry." *Analytical Chemistry* **2009**, *81*(17):7288-7293; doi:10.1021/ac901088f.

Badyal D. "Drug induced saga of vulture extinction in India." in *An Introduction to Environmental Pharmacology*, 1st ed.; Rahman SZ, Shahid M and Gupta V, Eds., Ibn Sina Academy; Aligarh, India, 2008, 11, pp.

Baer KN, McCoole MD, and Overturf MD. "Modulation of sex ratios in Daphnia magna following multigenerational exposure to sewage treatment plant effluents." *Ecotoxicology and Environmental Safety* **2009**, *72*(5):1545-1550; doi:10.1016/j.ecoenv.2008.12.007.

Baertschi SW. "Analytical methodologies for discovering and profiling degradation-related impurities." *TRAC Trends in Analytical Chemistry* **2006**, *25*(8):758-767; doi:10.1016/j.trac.2006.05.012.

Baertschi SW, Ed., "Pharmaceutical Stress Testing: Predicting Drug Degradation." Taylor & Francis Inc., 2009, 504 pp; http://www.webmedbooks.com/content/productdetail.aspx?upc=299e16b8-8ef9-4138-8f09-247fd2760169, table of contents: http://www.gbv.de/du/services/toc/bs/486875172.

Baeza AC. "Removal of Pharmaceutical and Endocrine Disrupting Chemicals by Sequential Photochemical and Biological Oxidation Processes." Doctoral Dissertation, North Carolina State University, Raleigh, North Carolina, 2008. 200 pp; http://www.lib.ncsu.edu/theses/available/etd-09112008-165531/.

Bagnati R and Calamari D. "Pharmaceuticals in the environment: Changes in the presence and concentrations of pharmaceuticals for human use in Italy." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 4, pp 45-66; http://www.cplbookshop.com/contents/C772.htm.

Baguer AJ, Jensen J, and Krogh PH. "Effects of the antibiotics oxytetracycline and tylosin on soil fauna." *Chemosphere* **2000**, *40*(7):751-757; doi:10.1016/S0045-6535(99)00449-X.

Bahlmann A, Weller M, Panne U, and Schneider R. "Monitoring carbamazepine in surface and wastewaters by an immunoassay based on a monoclonal antibody." *Analytical and Bioanalytical Chemistry* **2009**, *395*(6):1809-1820; doi:10.1007/s00216-009-2958-7.

Bai Y, Wu F, Liu C, Guo J, Fu P, Li W*, et al.* "Interaction between carbamazepine and humic substances: A fluorescence spectroscopy study." *Environmental Toxicology and Chemistry* **2008**, *27*(1):95-102.

Bailer AJ and Oris JT. "Defining the baseline for inhibition concentration calculations for hormetic hazards." *Journal of Applied Toxicology* **2000**, *20*(2):121-125.

Bailey GS, Reddy AP, Pereira CB, Harttig U, Baird W, Spitsbergen JM*, et al.* "Nonlinear Cancer Response at Ultralow Dose: A 40800-Animal ED001 Tumor and Biomarker Study." *Chemical Research in Toxicology* **2009**, *22*(7):1264-1276; doi:10.1021/tx9000754.

Bailey S. "Dare to Keep Drugs Out of Your Drinking Water." *Estuary News* **2009**, *20*(1):12-13.

Baillie TA. "Future of toxicology - metabolic activation and drug design: challenges and opportunities in chemical toxicology." *Chemical Research in Toxicology* **2006**, *19*(7):889-893; doi:10.1021/tx060062o.

Bailón-Pérez MI, García-Campaña AM, Cruces-Blanco C, and del Olmo Iruela M. "Trace determination of β-lactam antibiotics in environmental aqueous samples using off-line and on-line preconcentration in capillary electrophoresis." *Journal of Chromatography A* **2008**, *1185*(2):273-280; doi:10.1016/j.chroma.2007.12.088.

Bailón-Pérez MI, García-Campaña AM, del Olmo-Iruela M, Gámiz-Gracia L, and Cruces-Blanco C. "Trace Determination Of 10 B-Lactam Antibiotics In Environmental And Food Samples By Capillary Liquid Chromatography." *Journal of Chromatography A* **2009**, *1216*(47):8355-8361; doi:10.1016/j.chroma.2009.09.042.

Baird D. "Veterinary medicines in natural ecosystems: Assessing the risks." *Journal of Veterinary Pharmacology and Therapeutics* **2003**, *26*(1):28-29.

Baird RM, Crowden CA, O'Farrell SM, and Shooter RA. "Microbial contamination of pharmaceutical products in the home." *Journal of Hygiene* **1979**, *83*(2):277-283.

Baird TD and DeLorenzo ME. "Descriptive and mechanistic toxicity of conazole fungicides using the model test alga Dunaliella

tertiolecta (chlorophyceae)." *Environmental Toxicology* **2009**, *In Press*; doi:10.1002/tox.20493.

Bakal RS and Stoskopf MK. "In vitro studies of the fate of sulfadimethoxine and ormetoprim in the aquatic environment." *Aquaculture* **2001**, *195*(1-2):95-102; doi:10.1016/S0044-8486(00)00539-1.

Bakare AA, Okunola AA, Adetunji OA, and Jenmi HB. "Genotoxicity assessment of a pharmaceutical effluent using four bioassays." *Genetics and Molecular Biology* **2009**, *32*(2):373-381; doi:10.1590/S1415-47572009000200026.

Baker K. "Reducing your risk." *Drug Topics Digital Edition* **2008**, *152*(9A).

Baker ME. "Albumin's role in steroid hormone action and the origins of vertebrates: Is albumin an essential protein?" *FEBS Letters* **1998**, *439*(1-2):9-12; doi:10.1016/S0014-5793(98)01346-5.

Baker ME, Chang DJ, and Chandsawangbhuwana C. "3D Model of Lamprey Estrogen Receptor with Estradiol and 15α-Hydroxy-Estradiol." *PloS One* **2009**, *4*(6):e6038; doi:10.1371/journal.pone.0006038.

Baker R. "Health management with reduced antibiotic use - The US experience." *Animal Biotechnology* **2006**, *17*(2):195-205; doi:10.1080/10495390600962274.

Baker R, Moss P, Upton D, and Pankhania J. "Investigation of systems to prevent diversion of opiate drugs in general practice in the UK." *Quality & Safety in Health Care* **2004**, *13*(1):21-25; doi:10.1136/qshc.2002.002485.

Bala Subramanian S, Yan S, Tyagi RD, and Surampalli RY. "Molecular Biology Techniques for CoEEC Degrading Organisms." in *Contaminats of Emerging Environmental Concern*, Bhandari A, Surampalli RY, Adams CD, Champagne P, Ong SK, Tyagi RD and Zhang TC, Eds., American Society of Civil Engineers; Reston, Virginia, 2008, Chapter 12, pp 446-480; http://books.google.com/books?id=1G7D2d99orkC&source=gbs_navlinks_s.

Balaban NQ, Merrin J, Chait R, Kowalik L, and Leibler S. "Bacterial persistence as a phenotypic switch." *Science* **2004**, *305*:1622-1625; doi:10.1126/science.1099390.

Balakrishnan VK, Terry KA, and Toito J. "Determination of sulfonamide antibiotics in wastewater: A comparison of solid phase microextraction and solid phase extraction methods." *Journal of Chromatography A* **2006**, *1131*(1-2):1-10; doi:10.1016/j.chroma.2006.07.011.

Balch G and Metcalfe C. "Developmental effects in Japanese medaka (Oryzias latipes) exposed to nonylphenol ethoxylates and their degradation products." *Chemosphere* **2006**, *62*(8):1214-1223; doi:10.1016/j.chemosphere.2005.02.100.

Balch GC, Mackenzie CA, and Metcalfe CD. "Alterations to gonadal development and reproductive success in Japanese medaka (Oryzias latipes) exposed to 17α-ethinylestradiol." *Environmental Toxicology and Chemistry* **2004**, *23*(3):782-791; doi:10.1897/02-539.

Baldini M and Selzer P. "Antibiotic resistance patterns of enterococci isolated from estuarine waters." *Revista Argentina de Microbiologia* **2008**, *40*(1):48-51.

Baldini MD and Cabezali CB. "Occurrence of Antibiotic-Resistant Escherichia Coli Isolated from Environmental Samples." *Marine Pollution Bulletin* **1991**, *22*(10):500-503; doi:10.1016/0025-326X(91)90404-G.

Balducci C, Nervegna G, and Cecinato A. "Evaluation of principal cannabinoids in airborne particulates." *Analytica Chimica Acta* **2009**, *641*(1-2):89-94; doi:10.1016/j.aca.2009.03.037.

Baldwin WS and LeBlanc GA. "In vivo biotransformation of testosterone by phase I and II detoxication enzymes and their modulation by 20-hydroxyecdysone in Daphnia magna." *Aquatic Toxicology* **1994**, *29*(1-2):103-117; doi:10.1016/0166-445X(94)90051-5.

Baldwin WS and LeBlanc GA. "Idenfication of multiple steroid hydroxylases in daphnia magna and their modulation by xenobiotics." *Environmental Toxicology and Chemistry* **1994**, *13*(7):1013-1021; doi:10.1897/1552-8618(1994)13[1013:IOMSHI]2.0.CO;2.

Baldwin WS, Milam DL, and LeBlanc GA. "Physiological and biochemical perturbations in daphnia magna following exposure to the model environmental estrogen diethylstilbestrol." *Environmental Toxicology and Chemistry* **1995**, *14*(6):945-952.

Balest L, Lopez A, Mascolo G, and Di Iaconi C. "Removal of endocrine disrupter compounds from municipal wastewater using an aerobic granular biomass reactor." *Biochemical Engineering Journal* **2008**, *41*(3):288-294; doi:10.1016/j.bej.2008.05.015.

Balit CR, Lynch A-M, Gilmore SP, Murray L, and Isbister GK. "Lignocaine and chlorhexidine toxicity in children resulting from mouth paint ingestion: A bottling problem." *Journal of Paediatrics and Child Health* **2006**, *42*(6):350-353; doi:10.1111/j.1440-1754.2006.00871.x.

Balk F, Blok H, and Salvito D. "Environmental risks of musk fragrance ingredients." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 10, pp 168-190; doi:10.1021/bk-2001-0791.ch010; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Balk F and Ford RA. "Environmental risk assessment for the polycyclic musks AHTN and HHCB in the EU: I. Fate and exposure assessment." *Toxicology Letters* **1999**, *111*(1-2):57-79; doi:10.1016/S0378-4274(99)00169-1.

Balk F and Ford RA. "Environmental risk assessment for the polycyclic musks, AHTN and HHCB: II. Effect assessment and risk characterisation." *Toxicology Letters* **1999**, *111*(1-2):81-94; doi:10.1016/S0378-4274(99)00170-8.

Balk F, Salvito D, and Blok H. "Recent studies conducted by the Research Institute for Fragrance Materials (RIFM) in support of the environmental risk assessment process." *The Handbook of Environmental Chemistry* **2004**, *3, Part X*:311-331; doi:10.1007/b14119.

Balk F, Salvito D, and Blok H. "Recent studies conducted by the Research Institute for Fragrance Materials (RIFM) in support of the environmental risk assessment process." in *Synthetic Musk Fragrances in the Environment*, Rimkus GG, Ed., Springer-Verlag; Heidelberg, 2004, pp 311-331.

Balmer ME, Buser HR, Muller MD, and Poiger T. "Occurrence of organic UV filters from sunscreens in wastewater, surface waters and fish in Switzerland." Oslo Workshop on environmental fate and effects of PPCPs, 24 November 2006; http://www.niva.no/symfoni/infoportal/PUBLIKASJON.NSF/b3fa54ae867808cbc1256ebc0033d836/70dac0bd1f5c890cc125725a004f780d/$FILE/Balmer.pdf.

Balmer ME, Buser H-R, Muller MD, and Poiger T. "Occurrence of the Organic UV Filter Compounds BP-3, 4-MBC, EHMC, and OC in Wastewater, Surface Waters, and in Fish from Swiss Lakes." Agroscope, Wädenswil, March, 2004, 50 pp.

Balmer ME, Buser H-R, Müller MD, and Poiger T. "Occurrence of some organic UV filters in wastewater, in surface waters, and in fish from Swiss lakes." *Environmental Science & Technology* **2005**, *39*(4):953-962; doi:10.1021/es040055r.

Balmer ME, Poiger T, Droz C, Romanin K, Bergovist P-A, Müller MD*, et al.* "Occurrence of methyl triclosan, a transformation product of the bactericide triclosan, in fish and from various lakes in Switzerland." *Environmental Science & Technology* **2004**, *38*(2):390-395; doi:10.1021/es030068p.

Bamdad M, Brousseau P, and Denizeau F. "Identification of a multidrug resistance-like system in Tetrahymena pyriformis: evidence for a new detoxication mechanism in freshwater ciliates." *FEBS Letters* **1999**, *456*(3):389-393; doi:10.1016/S0014-5793(99)00978-3.

Bandelj E, Van den Heuvel MR, Leusch FDL, Shannon N, Taylor S, and McCarthy LH. "Determination of the androgenic potency of whole effluents using mosquitofish and trout bioassays." *Aquatic Toxicology* **2006**, *80*(3):237-248; doi:10.1016/j.aquatox.2006.08.011.

Bandow N, Altenburger R, Lübcke-von Varel U, Paschke A, Streck G, and Brack W. "Partitioning-Based Dosing: An Approach To Include Bioavailability in the Effect-Directed Analysis of Contaminated Sediment Samples." *Environmental Science & Technology* **2009**, *43*(10):3891-3896; doi:10.1021/es803453h.

Banerjee T, Guha A, Hazra A, Mandal M, Mukherji J, Sen A*, et al.* "Wastage of drugs by consumers – an unacceptable behavior." *Rational Drug Bulletin* **2001**, *11*(3):1-8.

Bangsgaard K, Madsen SS, and Korsgaard B. "Effect of waterborne exposure to 4-tert-octylphenol and 17β-estradiol on smoltification and downstream migration in Atlantic salmon, Salmo salar." *Aquatic Toxicology* **2006**, *80*(1):23-32; doi:10.1016/j.aquatox.2006.07.009.

Banta-Green CJ, Field JA, Chiaia AC, Sudakin DL, Power L, and de Montigny L. "The spatial epidemiology of cocaine, methamphetamine and 3,4-methylenedioxymethamphetamine (MDMA) use: a demonstration using a population measure of community drug load derived from municipal wastewater." *Addiction* **2009**, *In press*; doi:10.1111/j.1360-0443.2009.02678.x.

Bao Y, Zhou Q, Guan L, and Wang Y. "Depletion of chlortetracycline during composting of aged and spiked manures." *Waste Management* **2009**, *29*(4):1416-1423; doi:10.1016/j.wasman.2008.08.022.

Baptista MS, Stoichev T, Basto MCP, Vasconcelos VM, and Vasconcelos MTSD. "Fate and effects of octylphenol in a Microcystis aeruginosa culture medium." *Aquatic Toxicology* **2009**, *92*(2):59-64; doi:10.1016/j.aquatox.2008.12.005.

Baquero F, Martínez J-L, and Cantón R. "Antibiotics and antibiotic resistance in water environments." *Current Opinion in Biotechnology* **2008**, *19*(3):260-265; doi:10.1016/j.copbio.2008.05.006.

Baran W, Adamek E, Sobczak A, and Makowski A. "Photocatalytic degradation of sulfa-drugs with TiO_2, Fe salts and $TiO_2/FeCl_3$ in aquatic environment - kinetics and degradation pathway." *Applied Catalysis B: Environmental* **2009**, *90*(3-4):516-525; doi:10.1016/j.apcatb.2009.04.014.

Baran W, Sochacka J, and Wardas W. "Toxicity and biodegradability of sulfonamides and products of their photocatalytic degradation in aqueous solutions." *Chemosphere* **2006**, *65*(8):1295-1299; doi:10.1016/j.chemosphere.2006.04.040.

Baranowska I and Kowalski B. "An analytical procedure for the determination of different therapeutic drugs in surface waters." *Water Science and Technology* **2009**, *60*(2):449-458; doi:10.2166/wst.2009.339.

Baranowska I, Markowski P, and Baranowski J. "Simultaneous determination of 11 drugs belonging to four different groups in human urine samples by reversed-phase high-performance liquid chromatography method." *Analytica Chimica Acta* **2006**, *570*(1):46-58; doi:10.1016/j.aca.2006.04.002.

Barata C, Baird DJ, and Soares AM. "Determining genetic variability in the distribution of sensitivities to toxic stress among and within field populations of Daphnia magna." *Environmental Science & Technology* **2002**, *36*(14):3045-3049; doi:10.1021/es0158556.

Barata C, Porte C, and Baird DJ. "Experimental designs to assess endocrine disrupting effects in invertebrates - A review." *Ecotoxicology* **2004**, *13*(6):511-517; doi:10.1023/B:ECTX.0000037188.09072.de.

Barber C. "Dietary Uptake Models Used for Modeling the Bioaccumulation of Organic Contaminants in Fish." *Environmental Toxicology and Chemistry* **2008**, *27*(4):755-777; doi:10.1897/07-462.

Barber LB. "Fate of consumer product chemicals in the subsurface environment--25 Years of research on Cape Cod, Massachusetts, USA." in *Groundwater Quality 2007 Securing Groundwater Quality in Urban and Industrial Environments: International Association of Hydrological Sciences IAHS*, Hill MC, Ed., Redbook; Fremantle, Western Australia, 2008, pp 26; http://www.clw.csiro.au/conferences/GQ07/GQ07_Proceedings.pdf.

Barber LB, Keefe SH, Antweiler RC, Taylor HE, and Wass RD. "Accumulation of contaminants in fish from wastewater treatment wetlands." *Environmental Science & Technology* **2006**, *40*(2):603-611; doi:10.1021/es0514287.

Barber LB, Keefe SH, Antweiler RC, Taylor HE, and Wass RD. "Response to comment on 'Accumulation of contaminants in fish from wastewater treatment wetlands'." *Environmental Science & Technology* **2006**, *40*(10):3438-3439; doi:10.1021/es068003k.

Barber LB, Keefe SH, LeBlanc DR, Bradley PM, Chapelle FH, Meyer MT*, et al.* "Fate of Sulfamethoxazole, 4-Nonylphenol, and 17β-estradiol in Groundwater Contaminated by Wastewater Treatment Plant Effluent." *Environmental Science & Technology* **2009**, *43*(13):4843-4850; doi:10.1021/es803292v.

Barber LB, Lee KE, Swackhamer DL, and Schoenfuss HL. "Reproductive responses of male fathead minnows exposed to wastewater treatment plant effluent, effluent treated with XAD8 resin, and an environmentally relevant mixture of alkylphenol compounds." *Aquatic Toxicology* **2007**, *82*(1):36-46; doi:10.1016/j.aquatox.2007.01.003.

Barber LB, Leenheer JA, Pereira WE, Noyes TI, Brown GK, Tabor CF*, et al.* "Contaminants in the Mississippi River." Circular 1133, Reston, VA, US Geological Survey, 1995. http://pubs.usgs.gov/circ/circ1133/.

Barber LB, Meyer MT, LeBlanc DR, Kolpin DW, Bradley PM, Chapelle FH*, et al.* "Subsurface fate and transport of 4-nonylphenol, 17β-estradiol, and sulfamethoxazole." in *Groundwater Quality 2007 Securing Groundwater Quality in Urban and Industrial Environments: International Association of Hydrological Sciences IAHS*, Hill MC, Ed., Redbook; Fremantle, Western Australia, 2008, pp 26; http://www.clw.csiro.au/conferences/GQ07/GQ07_Proceedings.pdf.

Barber LB, Murphy SF, Verplanck PL, Sandstrom MW, Taylor HE, and Furlong ET. "Chemical loading into surface water along a hydrological, biogeochemical, and land use gradient: A holistic watershed approach." *Environmental Science & Technology* **2006**, *40*(2):475-486; doi:10.1021/es051270q.

Barber WPF. "Influence of anaerobic digestion on the carbon footprint of various sewage sludge treatment options." *Water and Environment Journal* **2009**, *23*(3):170-179; doi:10.1111/j.1747-6593.2008.00133.x.

Barbosa IR, Nogueira AJA, and Soares AMVM. "Acute and chronic effects of testosterone and 4-hydroxyandrostenedione to the crustacean Daphnia magna." *Ecotoxicology and Environmental Safety* **2008**, *71*(3):757-764; doi:10.1016/j.ecoenv.2008.02.020.

Barbosa TM and Levy SB. "The impact of antibiotic use on resistance development and persistence." *Drug Resistance Updates* **2000**, *3*(5):303-311; doi:10.1054/drup.2000.0167.

Barceló D, Ed., "Emerging Organic Pollutants in Waste Waters and Sludge." Springer, 2004, 263 pp; http://www.cplbookshop.com/contents/C1602.htm.

Barceló D. "Pharmaceutical-residue analysis." *Trends in Analytical Chemistry* **2007**, *26*(6):454-455; doi:10.1016/j.trac.2007.02.008.

Barceló D. "Monitoring surface water pollutants." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1423-1423; doi:10.1007/s00216-006-1034-9.

Barceló D. "Advanced MS analysis of metabolites and degradation products." *Trends in Analytical Chemistry* **2008**, *27*(10):805-806; doi:10.1016/j.trac.2008.09.005.

Barcelo D and Petrovic M. "Emerging contaminants in wastewaters." *Trends in Analytical Chemistry* **2007**, *26*(11):1019-1157; doi:10.1016/j.trac.2007.10.006.

Barceló D and Petrovic M. "Challenges and achievements of LC-MS in environmental analysis: 25 years on." *Trends in Analytical Chemistry* **2007**, *26*(1):2-11; doi:10.1016/j.trac.2006.11.006.

Barceló D and Petrovic M. "Under the analytical spotlight, contaminants emerge: Report on the 2nd EMCO Workshop "Emerging Contaminants in Wastewaters: Monitoring Tools and Treatment Technologies" held in Belgrade, Serbia, 26 and 27 April 2007." *Trends in Analytical Chemistry* **2007**, *26*(7):647-649; doi:10.1016/j.trac.2007.05.011.

Barceló D and Petrovic M. "Pharmaceuticals and personal care products (PPCPs) in the environment." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1141-1142; doi:10.1007/s00216-006-1012-2.

Barceló D and Petrović M. "Removal of pharmaceuticals in wastewater and drinking water treatments – Conclusions and future research needs." *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle* **2007**, *Volume 50*(Wilson & Wilson's Comprehensive Analytical Chemistry series (D. Barcelo, Ed.)):515-527.

Barceló D and Petrović M, Eds., "Emerging contaminants from industrial and municipal waste: Occurrence, analysis and effects." Springer, Barcelona, Spain, 2008, 192 pp; http://www.springer.com/environment/water/book/978-3-540-74793-2.

Barceló D and Petrović M, Eds., "Emerging contaminants from industrial and municipal waste: Removal technologies." Springer, Barcelona, Spain, 2008, 284 pp; http://www.springer.com/environment/water/book/978-3-540-79209-3.

Barceló D, Petrovic M, Lopez de Alda MJ, and Diaz-Cruz S. "LC-MS and LC-MS-MS analysis of selected emerging pollutants (steroid sex hormones, drugs and alkylphenolic surfactants) in the aquatic environment." Slide Presentation, Department of Environmental Chemistry IIQAB-CSIC, Barcelona, Spain, http://www.pg.gda.pl/chem/CEEAM/Dokumenty/Warsztaty/Barcelo_1.pdf.

Barceló D, Petrovic M, Raldua D, Piña B, Lacorte S, Lopez de Alda MJ*, et al.* "Endocrine disruptors in sewage treatment plants, receiving waters and sediments. Integration of chemical analysis and effect studies on carps and yeast." Slide Presentation, Department of Environmental Chemistry, IIQAB-CSIC, Barcelona, Spain, 2009; http://www.pg.gda.pl/chem/CEEAM/Dokumenty/Warsztaty/Barcelo_2.pdf.

Barceloux DG. "Selenium." *Clinical Toxicology* **1999**, *37*(2):145-172.

Bard SM. "Multixenobiotic resistance as a cellular defense mechanism in aquatic organisms." *Aquatic Toxicology* **2000**, *48*(4):357-389; doi:10.1016/S0166-445X(00)00088-6.

Bard SM, Woodin BR, and Stegeman JJ. "Expression of P-glycoprotein and cytochrome P450 1A in intertidal fish (Anoplarchus purpurescens) exposed to environmental contaminants." *Aquatic Toxicology* **2002**, *60*(1-2):17-32; doi:10.1016/S0166-445X(01)00272-7.

Barel-Cohen K, Shore LS, Shemesh M, Wenzel A, Mueller J, and Kronfeld-Schor N. "Monitoring of natural and synthetic hormones in a polluted river." *Journal of Environment Management* **2006**, *78*(1):16-23; doi:10.1016/j.jenvman.2005.04.006.

Bari SB, Kadam BR, Jaiswal YS, and Shirkhedkar AA. "Impurity profile: Significance in Active Pharmaceutical Ingredient." *Eurasian Journal of Analytical Chemistry* **2007**, *2*(1):32-53.

Barinaga M. "Small molecule fills hormone's shoes." *Science* **1998**, *281*:149-151; doi:10.1126/science.281.5374.149b.

Barker SA. "Drug contamination of the equine racetrack environment: a preliminary examination." *Journal of Veterinary Pharmacology and Therapeutics* **2008**, *31*(5):466-471; doi:10.1111/j.1365-2885.2008.00978.x.

Barlow S, Chesson A, Collins JD, Flynn A, Hardy A, Jany K-D*, et al.* "Scientific Opinion - The Potential Risks Arising from Nanoscience and Nanotechnologies on Food and Feed Safety." *The European Food Safety Authority Journal* **2009**, *958*:2-39.

Barlow S, Kavlock RJ, Moore JA, Schantz SL, Sheehan DM, Shuey DL*, et al.* "Teratology society public affairs committee position paper: Developmental toxicity of endocrine disruptors to humans." *Teratology* **1999**, *60*(6):365-375; doi:10.1002/(SICI)1096-9926(199912)60:6<365::AID-TERA9>3.0.CO;2-6.

Barlow SM. "Dilemmas facing regulatory and advisory bodies dealing with conflicting results." *Chemosphere* **1999**, *39*(8):1287-1292; doi:10.1016/S0045-6535(99)00196-4.

Barnabé S, Brar SK, Tyagi RD, Beauchesne I, and Surampalli RY. "Pre-treatment and bioconversion of wastewater sludge to value-added products--Fate of endocrine disrupting compounds." *Science of the Total Environment* **2009**, *407*(5):1471-1488; doi:10.1016/j.scitotenv.2008.11.015.

Barnes AJ, Smith ML, Kacinko SL, Schwilke EW, Cone EJ, Moolchan ET*, et al.* "Excretion of Methamphetamine and Amphetamine in Human Sweat Following Controlled Oral Methamphetamine Administration." *Clinical Chemistry* **2008**, *54*(1):172-180; doi:10.1373/clinchem.2007.092304.

Barnes DG. "Reference dose (RfD): the possible impact of hormesis." *Journal of Applied Toxicology* **2000**, *20*(2):127-130.

Barnes KK, Christenson SC, Kolpin DW, Focazio M, Furlong ET, Zaugg SD*, et al.* "Pharmaceuticals and other organic waste water contaminants within a leachate plume downgradient of a municipal landfill." *Ground Water Monitoring & Remediation* **2004**, *24*(2):119-126.

Barnes KK, Kolpin DW, Focazio MJ, Furlong ET, Meyer MT, Zaugg SD*, et al.* "Water-Quality Data for Pharmaceuticals and Other Organic Wastewater Contaminants in Ground Water and in Untreated Drinking Water Sources in the United States, 2000-01." USGS Iowa Water Science Center, 2008-1293, 2008, 7 pp; http://pubs.usgs.gov/of/2008/1293/.

Barnes KK, Kolpin DW, Furlong ET, Zaugg SD, Meyer MT, and Barber LB. "A national reconnaissance of pharmaceuticals and other organic wastewater contaminants in the United States -- I) Groundwater." *Science of the Total Environment* **2008**, *402*(2-3):192-200; doi:10.1016/j.scitotenv.2008.04.028.

Barnes KK, Kolpin DW, Furlong ET, Zaugg SD, Meyer MT, Barber LB*, et al.*, "Studies examine contaminants: Pharmaceuticals, hormones and other organic wastewater contaminants in ground water resource." *National Driller Magazine*, 2005, 26 3: 38-39 pp; http://www.nationaldriller.com/Articles/Feature_Article/285c1c94a9197010VgnVCM100000f932a8c0____.

Barnes KK, Kolpin DW, Meyer MT, Thurman EM, Furlong ET, Zaugg SD*, et al.* "Water-Quality Data for Pharmaceuticals, Hormones, and Other Organic Wastewater Contaminants in U.S. Streams, 1999-2000." USGS, 2002, http://toxics.usgs.gov/pubs/OFR-02-94/index.html.

Barnett NW, Bowser TA, Gerardi RD, and Smith B. "Determination of codeine in process streams using flow-injection analysis with chemiluminescence detection." *Analytica Chimica Acta* **1996**, *318*(3):309-317; doi:10.1016/0003-2670(95)00464-5.

Barnett NW, Hindson BJ, and Lewis SW. "Determination of Ranitidine and Salbutamol by Flow Injection Analysis with Chemiluminescence Detection." *Analytica Chimica Acta* **1999**, *384*(2):151-158; doi:10.1016/S0003-2670(98)00751-X.

Barnhoorn IEJ, Bornman MS, Pieterse GM, and van Vuren JHJ. "Histological evidence of intersex in feral sharptooth catfish (Clarias gariepinus) from an estrogen-polluted water source in Gauteng, South Africa." *Environmental Toxicology* **2004**, *19*(6):603-608; doi:10.1002/tox.20068.

Baronti C, Curini R, D'Ascenzo G, Di Corcia A, Gentili A, and Samperi R. "Monitoring natural and synthetic estrogens at activated sludge sewage treatment plants and in a receiving river water." *Environmental Science & Technology* **2000**, *34*(24):5059-5066; doi:10.1021/es001359q.

Bar-Oz B, Levichek Z, and Koren G. "Medications That Can Be Fatal For a Toddler with One Tablet or Teaspoonful: A 2004 Update." *Pediatric Drugs* **2004**, *6*(2):123-126.

Barrett G. "Unused drugs: Legacy or liability?" USA Today, 2001, 13 March www.usatoday.com/news/health/2001-03-12-leftover-drugs.htm.

Barrett JS and Koprowski SP. "The epiphany of data warehousing technologies in the pharmaceutical industry." *International Journal of Clinical Pharmacology and Therapeutics* **2002**, *40*(3):S3-S13.

Barrett K, Floate K, Jensen J, Robinson J, and Tolson N. "Assessing the Effects of Veterinary Medicines on the Terrestrial Environment." *Veterinary Medicines in the Environment* **2008**:155-180.

Barreyro P. "State of the Nation's River 2009: Emerging contaminants in the Potamac River." Potomac Conservancy, Silver Spring, MD, 11 November, 2009, 4 pp; http://www.potomac.org/site/wp-content/uploads/pdfs/pc_sonr_lr1.pdf.

Barron E, Deborde M, Rabouan S, Mazellier P, and Legube B. "Kinetic and mechanistic investigations of progesterone reaction with ozone." *Water Research* **2006**, *40*(11):2181-2189; doi:10.1016/j.watres.2006.03.034.

Barron L, Havel J, Purcell M, Szpak M, Kelleher B, and Paull B. "Predicting sorption of pharmaceuticals and personal care products onto soil and digested sludge using artificial neural networks." *Analyst* **2009**, *134*(4):663-670; doi:10.1039/b817822d.

Barron L, Tobin J, and Paull B. "Multi-residue determination of pharmaceuticals in sludge and sludge enriched soils using pressurized liquid extraction, solid phase extraction and liquid chromatography with tandem mass spectrometry." *Journal of Environmental Monitoring* **2008**, *10*(3):353-361; doi:10.1039/b717453e.

Barron MG, Gedutis C, and James MO. "Pharmacokinetics of sulphadimethoxine in the lobster, Homarus americanus, following intrapericardial administration." *Xenobiotica* **1988**, *18*(3):269-276.

Barron MG, Hansen JA, and Lipton J. "Association between contaminant tissue residues and effects in aquatic organisms." *Reviews of Environmental Contamination and Toxicology* **2002**, *173*:1-37.

Barsky AJ, Saintfort R, Rogers MP, and Borus JF. "Nonspecific Medication Side Effects and the Nocebo Phenomenon." *The Journal of the American Medical Association* **2002**, *287*(5):622-627; doi:10.1001/jama.287.5.622.

Bartell Drug Company, Group Health Cooperative, Interagency Resorce for Achieving Cooperation (IRAC), Local Hazardous Waste Management Program in King County, Northwest Product Stewardship Council, Pacific Northwest Pollution Prevention Resource Center (PPRC)*, et al.* "Medicine Take-Back Workshop." in Medicine Take-Back Workshop, Seattle, WA, 18 April, 2008, http://www.medicinereturn.com/resources/workshop.

Bartels P and von Tümpling Jr W. "The environmental fate of the antiviral drug oseltamivir carboxylate in different waters." *Science of the Total Environment* **2008**, *405*(1-3):215-225; doi:10.1016/j.scitotenv.2008.06.032.

Bartels P and von Tumpling W. "Solar radiation influence on the decomposition process of diclofenac in surface waters." *Science of the Total Environment* **2007**, *374*(1):143-155; doi:10.1016/j.scitotenv.2006.11.039.

Bartelt-Hunt SL, Snow DD, Damon T, Shockley J, and Hoagland K. "The occurrence of illicit and therapeutic pharmaceuticals in wastewater effluent and surface waters in Nebraska." *Environmental Pollution* **2009**, *157*(3):786-791; doi:10.1016/j.envpol.2008.11.025.

Barwicz J, Beauregard M, and Tancrede P. "Circular dichroism study of interactions of Fungizone or AmBisome forms of amphotericin B with human low density lipoproteins." *Biopolymers* **2002**, *67*(1):49-55; doi:10.1002/bip.10042.

Basaraba R, Oehme F, Vorhies M, and Stokka G. "Toxicosis in cattle from concurrent feeding of monensin and dried distiller's grains contaminated with macrolide antibiotics." *Journal of Veterinary Diagnostic Investigation* **1999**, *11*(1):79-86.

Basheer C, Chong HG, Hii TM, and Lee HK. "Application of porous membrane-protected micro-solid-phase extraction combined with HPLC for the analysis of acidic drugs in wastewater." *Analytical Chemistry* **2007**, *79*(17):6845-6850; doi:10.1021/ac070372r.

Basheer C, Jayaraman A, Kee MK, Valiyaveettil S, and Lee HK. "Polymer-coated hollow-fiber microextraction of estrogens in water samples with analysis by gas chromatography-mass spectrometry." *Journal of Chromatography A* **2005**, *1100*(2):137-143.

Bass C. 2009, "Tiny Troubles: How Nanoparticles Are Changing Everything From Our Sunscreen to Our Supplements." emagazine.com, http://www.emagazine.com/view/?4723.

Basu P, Ghosh R, N., Grove LE, Klei L, and Barchowsky A. "Angiogenic Potential of 3-Nitro-4-Hydroxy Benzene Arsonic Acid (Roxarsone)." *Environmental Health Perspectives* **2008**, *116*(4):520-523; doi:10.1289/ehp.10885.

Bataineh M, Nolte J, Kuhlmann B, Zullei-Seibert N, Borges M, and Grote M. "Degradation behavior of selected pharmaceuticals and their main metabolites in model systems for slow sand filtration." *Current Pharmaceutical Analysis* **2006**, *2*(3):313-322; doi:10.2174/157341206777934626.

Batchelder AR. "Chlortetracycline and Oxytetracycline Effects on Plant Growth and Development in Liquid Cultures." *Journal of Environmental Quality* **1981**, *10*(4):515-518.

Batchelor C. "Something in the water." *New Journal of Chemistry* **2007**, *31*(6):C41.

Bateman B. "Pharmaceutical Take-Back Programs in Adult Care Facilities: A Pilot Project in Newberg, Oregon." Tulatin Valley Water District, 9 February 2007; http://www.oracwa.org/files/news/220/2007-02-Newberg-Program.pdf.

Bateman BO, Thonstad R, and Danicic D. "Conflicting public policies: Why is it so difficult to keep pharmaceuticals out of the water?" *Water Resources Impact* **2007**, *9*(3):18-21.

Batt AL. "Investigating the occurrence and fate of human and veterinary antibiotics in environmental water systems." Doctoral Dissertation, State University of New York at Buffalo, Buffalo, NY, 2006. 227 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2144702,FM=9,SEARCH=MD.Generic Search.

Batt AL and Aga DS. "Simultaneous analysis of multiple classes of antibiotics by ion trap LC/MS/MS for assessing surface water and groundwater contamination." *Analytical Chemistry* **2005**, *77*(9):2940-2947; doi:10.1021/ac048512+.

Batt AL, Bruce IB, and Aga DS. "Evaluating the vulnerability of surface waters to antibiotic contamination from varying wastewater treatment plant discharges." *Environmental Pollution* **2006**, *142*(2):295-302; doi:10.1016/j.envpol.2005.10.010.

Batt AL, Kim S, and Aga DS. "Enhanced Biodegradation of Iopromide and Trimethoprim in Nitrifying Activated Sludge." *Environmental Science & Technology* **2006**, *40*(23):7367-7373.

Batt AL, Kim S, and Aga DS. "Comparison of the occurrence of antibiotics in four full-scale wastewater treatment plants with varying designs and operations." *Chemosphere* **2007**, *68*(3):428-435; doi:10.1016/j.chemosphere.2007.01.008.

Batt AL, Kostich MS, and Lazorchak JM. "Analysis of Ecologically Relevant Pharmaceuticals in Wastewater and Surface Water Using Selective Solid–Phase Extraction and UPLC-MS/MS." *Analytical Chemistry* **2008**, *80*(13):5021-5030; doi:10.1021/ac800066n.

Batt AL, Snow DD, and Aga DS. "Occurrence of sulfonamide antimicrobials in private water wells in Washington County, Idaho, USA." *Chemosphere* **2006**, *64*(11):1963-1971; doi:10.1016/j.chemosphere.2006.01.029.

Batt S. "Full Circle: Drugs, the Environment and Our Health." Atlantic Centre of Excellence for Women's Health, Halifax, NS, 2004, 17 pp; http://www.whp-apsf.ca/en/documents/fullCircle.html.

Battaglin WA and Kolpin DW. "Contaminants of Emerging Concern: Introduction to a Featured Collection." *Journal of the American Water Resources Association* **2009**, *45*(1):1-3; doi:10.1111/j.1752-1688.2008.00299.x.

Bau M, Knappe A, and Dulski P. "Anthropogenic gadolinium as a micropollutant in river waters in Pennsylvania, and in Lake Erie, northeastern United States." *Chemie der Erde-Geochemistry* **2006**, *66*(2):143-152; doi:10.1016/j.chemer.2006.01.002.

Bauer CG, Kuhn A, Gajovic N, Skorobogatko O, Holt PJ, Bruce NC*, et al.* "New enzyme sensors for morphine and codeine based on morphine dehydrogenase and laccase." *Fresenius Journal of Analytical Chemistry* **1999**, *364*:179-183.

Bauer ERS, Daxenberger A, Petri T, Sauerwein H, and Meyer HHD. "Characterisation of the affinity of different anabolics and synthetic hormones to the human androgen receptor, human sex hormone binding globulin and to the bovine progestin receptor." *APMIS* **2001**, *109*(103):S452-S460.

Baum RM. "No chemistry, no physics." *Chemical & Engineering News* **2001**, *79*(36):5.

Baumgarten G, Jakobs D, and Muller H. "Treatment of AOX-containing nanofiltration and reverse osmosis." *Chemie Ingenieur Technik* **2004**, *76*:321-325.

Baumgarten S, Schroder HF, Charwath C, Lange M, Beier S, and Pinnekamp J. "Evaluation of advanced treatment technologies for the elimination of pharmaceutical compounds." *Water Science and Technology* **2007**, *56*(5):1-8; doi:10.2166/wst.2007.550.

Baun A and Hansen SF. "Environmental challenges for nanomedicine." *Nanomedicine* **2008**, *3*(5):605-608; doi:10.2217/17435889.3.5.605.

Baun A, Hartmann N, Grieger K, and Kusk K. "Ecotoxicity of engineered nanoparticles to aquatic invertebrates: a brief review and recommendations for future toxicity testing." *Ecotoxicology* **2008**, *17*(5):387-395; doi:10.1007/s10646-008-0208-y.

Baus C. "Vorkommen von iodierten Röntgenkontrastmitteln und ihr Verhalten bei der Trinkwasseraufbereitung." Schriftenreihe des DVGW-Technologiezentrums Wasser (TZW) Band 18, Karlsruhe, Germany, 2002, 13-30 pp.

Bautitz IR and Nogueira RFP. "Degradation of tetracycline by photo-Fenton process - Solar irradiation and matrix effects." *Journal of Photochemistry and Photobiology A: Chemistry* **2007**, *187*(1):33-39; doi:10.1016/j.jphotochem.2006.09.009.

Bay Area Pollution Prevention Group. "Report on the San Francisco Bay area's safe medicine disposal days." San Francisco, CA, 2006, 45 pp; http://oracwa.org/files/news/168/SFBAYSafeMeds-Report-August2006.pdf.

Bayen S, ter Laak TL, Buffle J, and Hermens JLM. "Dynamic Exposure of Organisms and Passive Samplers to Hydrophobic Chemicals." *Environmental Science & Technology* **2009**, *43*(7):2206-2215; doi:10.1021/es8029895.

Bayona JM and Albaigés J. "Sources and Fate of Organic Contaminants in the Marine Environment." *The Handbook of Environmental Chemistry* **2006**, *2, Part N*:323-370; doi:10.1007/698_2_010.

Bayston R, Ashraf W, and Smith T. "Triclosan resistance in methicillin-resistant Staphylococcus aureus expressed as small colony variants: a novel mode of evasion of susceptibility to antiseptics--authors' response." *Journal of Antimicrobial Chemotherapy* **2007**, *59*(5):848-853; doi:10.1093/jac/dkm132.

BBC News, "Toiletries 'feminise' men." *BBC News*, 7 October, 1998, http://news.bbc.co.uk/2/hi/health/187992.stm.

BCG. "The hidden epidemic: Finding a cure for unfilled prescriptions and missed doses." The Boston Consulting Group, December, 2003, 8 pp; http://www.bcg.com/impact_expertise/publications/files/Hidden_Epidemic_Finding_Cure_Unfulfilled_Rx_Missed_Doses_Dec2003.pdf.

Bdour A, Altrabsheh B, Hadadin N, and Al-Shareif M. "Assessment of medical wastes management practice: A case study of the northern part of Jordan." *Waste Management* **2007**, *27*(6):746-759.

Beale B. "Probiotics: their tiny worlds are under scrutiny." *The Scientist* **2002**, *16*(15):20-22.

Beausse J. "Selected drugs in solid matrices: A review of environmental occurrence and properties of principal substances." Energy Research Centre of the Netherlands, 2004, 36 pp; http://www.ecn.nl/docs/society/horizontal/hor_desk_26_pharmaceuticals.pdf.

Beausse J. "Selected drugs in solid matrices: a review of environmental determination, occurrence and properties of principal substances." *Trends in Analytical Chemistry* **2004**, *23*(10-11):753-761.

Bebak-Williams J, Bullock G, and Carson MC. "Oxytetracycline residues in a freshwater recirculating system." *Aquaculture* **2002**, *205*(3-4):221-230; doi:10.1016/S0044-8486(01)00690-1.

Beca J. "Pharmaceutical discharge: Zero discharge for pharma plant." *Filtration & Separation* **2007**, *44*(6):40-41; doi:10.1016/S0015-1882(07)70187-8.

Bechara IJ, Joazeiro PP, Marí-Beefa M, Becerra J, and Montes GS. "Collagen-affecting drugs impair regeneration of teleost tail fins." *Journal of Submicroscopic Cytology and Pathology* **2000**, *32*(2):273-280.

Beck A. "Environmental assessment of pharmaceuticals in Canada: A regulatory perspective." *Drug Information Journal* **2007**, *41*(2):159-162.

Beck IC, Bruhn R, and Gandrass J. "Bioassay-directed fractionation for analyzing estrogens in surface waters of the German Baltic

Sea." *Acta Hydrochimica et Hydrobiologica* **2006**, *34*(6):560-567; doi:10.1002/aheh.200600654.

Beck IC, Bruhn R, Gandrass J, and Ruck W. "Liquid chromatography-tandem mass spectrometry analysis of estrogenic compounds in coastal surface water of the Baltic Sea." *Journal of Chromatography A* **2005**, *1090*(1-2):98-106.

Beck J, Totsche KU, and Kögel-Knabner I. "A rapid and efficient determination of natural estrogens in soils by pressurised liquid extraction and gas chromatography-mass spectrometry." *Chemosphere* **2008**, *71*(5):954-960; doi:10.1016/j.chemosphere.2007.11.062.

Beck M and Radke M. "Determination of sterols, estrogens and inorganic ions in waste water and size-segregated aerosol particles emitted from waste water treatment." *Chemosphere* **2006**, *64*(7):1134-1140; doi:10.1016/j.chemosphere.2005.11.063.

Becker M. "Cocaine Use in Germany: Mountains of Coke along the Rhine." *Spiegel OnLine International* **2005**.

Becker M. "International Cocaine Consumption: New York Blows Away the Competition." *Spiegel OnLine International* **2006**.

Beckers ASC Review. 2009, "6 Best Practices for Proper Disposal of Pharmaceutical Waste." Cataract Outsourcing, 1-4 pp; http://www.cataractoutsourcing.com/or-management/6-practices-proper-disposal-pharmaceutical/.

Bedner M. "LC-MS shows effects of chlorine on drugs in wastewaters." *Trends in Analytical Chemistry* **2004**, *23*(10-11):VIII-IX.

Bedner M and MacCrehan WA. "Reactions of the amine-containing drugs fluoxetine and metoprolol during chlorination and dechlorination processes used in wastewater treatment." *Chemosphere* **2006**, *65*(11):2130-2137; doi:10.1016/j.chemosphere.2006.06.016.

Bedner M and MacCrehan WA. "Transformation of Acetaminophen by Chlorination Produces the Toxicants 1,4-Benzoquinone and N-Acetyl-p-benzoquinone Imine." *Environmental Science & Technology* **2006**, *40*(2):516-522.

Beecher N. "Public Perception of Biosolids Recycling: Developing Public Participation and Earning Trust." Water Environment Research Foundation (WERF), 2004, 140 pp; http://www.werf.org/AM/Template.cfm?Section=Research_Profile&Template=/CustomSource/Research/PublicationProfile.cfm&id=00-PUM-5.

Beecher N, Harrison E, Goldstein N, McDaniel M, Field P, and Susskind L. "Risk perception, risk communication, and stakeholder involvement for biosolids management and research." *Journal of Environmental Quality* **2005**, *34*(January-February):122-128.

Beere HM and Green DR. "Stress management - heat shock protein-70 and the regulation of apoptosis." *Trends in Cell Biology* **2001**, *11*(1):6-10; doi:10.1016/S0962-8924(00)01874-2.

Behechti A, Schramm KW, Attar A, Niederfellner J, and Kettrup A. "Acute aquatic toxicities of four musk xylene derivatives on Daphnia magna." *Water Research* **1998**, *32*(5):1704-1707; doi:10.1016/S0043-1354(97)00361-8.

Behnisch PA, Fujii K, Shiozaki K, Kawakami I, and Sakai S-i. "Estrogenic and dioxin-like potency in each step of a controlled landfill leachate treatment plant in Japan." *Chemosphere* **2001**, *43*(4-7):977-984; doi:10.1016/S0045-6535(00)00458-6.

Behr A, Brehme VA, Ewers CLJ, Gron H, Kimmel T, Küppers S*, et al.* "New developments in chemical engineering for the production of drug substances." *Chemie Ingenieur Technik* **2003**, *75*(1):417-427; doi:10.1002/elsc.200406127.

Behr A, Brehme VA, Ewers CLJ, Gron H, Kimmel T, Küppers S*, et al.* "New developments in chemical engineering for the production of drug substances." *Engineering in Life Sciences* **2004**, *4*(1):15-24.

Beijer K, Abrahamson A, Brunström B, and Brandt I. "CYP1A inhibition in fish gill filaments: A novel assay applied on pharmaceuticals and other chemicals." *Aquatic Toxicology* **2009**, *In Press*; doi:10.1016/j.aquatox.2009.10.018.

Beirens TMJ, van Beeck EF, Dekker R, Brug J, and Raat H. "Unsafe storage of poisons in homes with toddlers." *Accident Analysis & Prevention* **2006**, *38*(4):772-776; doi:10.1016/j.aap.2006.02.007.

Bekçi Z, Seki Y, and Cavas L. "Removal of malachite green by using an invasive marine alga Caulerpa racemosa var. cylindracea." *Journal of Hazardous Materials* **2009**, *161*(2-3):1454-1460; doi:10.1016/j.jhazmat.2008.04.125.

Bekci Z, Seki Y, and Yurdakoc MK. "Equilibrium studies for trimethoprim adsorption on montmorillonite KSF." *Journal of Hazardous Materials* **2006**, *133*(1-3):233-242; doi:10.1016/j.jhazmat.2005.10.029.

Bekçi Z, Seki Y, and Yurdakoç MK. "A study of equilibrium and FTIR, SEM/EDS analysis of trimethoprim adsorption onto K10." *Journal of Molecular Structure* **2007**, *827*(1-3):67-74; doi:10.1016/j.molstruc.2006.04.054.

Belden JB, Maul JD, and Lydy MJ. "Partitioning and photo degradation of ciprofloxacin in aqueous systems in the presence of organic matter." *Chemosphere* **2007**, *66*(8):1390-1395; doi:10.1016/j.chemosphere.2006.09.032.

Belfroid AC, Murk AJ, de Voogt P, Schäter AJ, Rijs GBJ, and Vethaak AD. "Endocrine-disrupting compounds in water systems: A pilot study of the occurrence of estrogenic compounds in surface and wastewater in the Netherlands." Lelystad/Middelburg 1999, 109 pp.

Belfroid AC, Van der Horst A, Vethaak AD, Schäfer AJ, Rijs GBJ, Wegener J*, et al.* "Analysis and occurrence of estrogenic hormones and their glucuronides in surface water and waste water in The Netherlands." *Science of the Total Environment* **1999**, *225*(1-2):101-108.

Belgiorno V, Rizzo L, Fatta D, Della Rocca C, Lofrano G, Nikolaou A*, et al.* "Review on endocrine disrupting-emerging compounds in urban wastewater: occurrence and removal by photocatalysis and ultrasonic irradiation for wastewater reuse." *Desalination* **2007**, *215*(1-3):166-176.

Bell AM. "An endocrine disrupter increases growth and risky behavior in threespined stickleback (Gasterosteus aculeatus)." *Hormones and Behavior* **2004**, *45*(2):108-114; doi:10.1016/j.yhbeh.2003.09.009.

Bellas J, Hilvarsson A, Birgersson G, and Granmo A. "Effects of medetomidine, a novel antifouling agent, on the burrowing bivalve Abra nitida (Muller)." *Chemosphere* **2006**, *65*(4):575-582; doi:10.1016/j.chemosphere.2006.02.045.

BELLE. "Biological Effects of Low Level Exposures." *Fifth International Conference HORMESIS: Implications for Toxicology, Medicine, and Risk Assessment* **2006**.

Belsito D, Bickers D, Bruze M, Calow P, Greim H, Hanifin JM*, et al.* "A toxicologic and dermatologic assessment of salicylates when used as fragrance ingredients." *Food and Chemical Toxicology* **2007**, *45*(1, Supplement 1):S318-S361; doi:10.1016/j.fct.2007.09.066.

Beltrán FJ, Aguinaco A, and García-Araya JF. "Mechanism and kinetics of sulfamethoxazole photocatalytic ozonation in water." *Water Research* **2009**, *43*(5):1359-1369; doi:10.1016/j.watres.2008.12.015.

Beltrán FJ, Aguinaco A, García-Araya JF, and Oropesa A. "Ozone and photocatalytic processes to remove the antibiotic sulfamethoxazole from water." *Water Research* **2008**, *42*(14):3799-3808; doi:10.1016/j.watres.2008.07.019.

Beltrán FJ, Pocostales P, Alvarez P, and Oropesa A. "Diclofenac removal from water with ozone and activated carbon." *Journal of Hazardous Materials* **2009**, *163*(2-3):768-776; doi:10.1016/j.jhazmat.2008.07.033.

Beltrán FJ, Pocostales P, Álvarez PM, and López-Piñeiro F. "Catalysts to improve the abatement of sulfamethoxazole and the resulting organic carbon in water during ozonation." *Applied Catalysis B: Environmental* **2009**, *92*(3-4):262-270; doi:10.1016/j.apcatb.2009.08.001.

Ben W, Qiang Z, Adams C, Zhang H, and Chen L. "Simultaneous determination of sulfonamides, tetracyclines and tiamulin in swine wastewater by solid-phase extraction and liquid chromatography-mass spectrometry." *Journal of Chromatography A* **2008**, *1202*(2):173-180; doi:10.1016/j.chroma.2008.07.014.

Ben W, Qiang Z, Pan X, and Chen M. "Removal of veterinary antibiotics from sequencing batch reactor (SBR) pretreated swine wastewater by Fenton's reagent." *Water Research* **2009**, *43*(17):4392-4402; doi:10.1016/j.watres.2009.06.057.

Ben-David A, Oren Y, and Freger V. "Thermodynamic Factors in Partitioning and Rejection of Organic Compounds by Polyamide Composite Membranes." *Environmental Science & Technology* **2006**, *40*(22):7023-7028.

Bender DM, Peterson JA, McCarthy JR, Gunaydin H, Takano Y, and Houk KN. "Cyclopropanecarboxylic Acid Esters as Potential Prodrugs with Enhanced Hydrolytic Stability." *Organic Letters* **2008**, *10*(3):509-511; doi:10.1021/ol702892e.

Bendjoudi Z, Taleb F, Abdelmalek F, and Addou A. "Healthcare waste management in Algeria and Mostaganem department." *Waste Management* **2009**, *29*(4):1383-1387; doi:10.1016/j.wasman.2008.10.008.

Bendz D, Paxéus NA, Ginn TR, and Loge FJ. "Occurrence and fate of pharmaceutically active compounds in the environment, a case study: Höje River in Sweden." *Journal of Hazardous Materials* **2005**, *122*(3):195-204.

Benedetti F. "Placebo Effects: Understanding the mechanisms in health and disease." Oxford, UK, Oxford University Press, 2009, 295 pp; http://www.oup.com/us/catalog/general/subject/Medicine/Neuroscience/?view=usa&ci=9780199559121.

Benedetti F, Amanzio M, Baldi S, Casadio C, and Maggi G. "Inducing placebo respiratory depressant responses in humans via opioid receptors." *European Journal of Neuroscience* **1999**, *11*(2):625-631; doi:10.1046/j.1460-9568.1999.00465.x.

Benedetti F, Arduino C, and Amanzio M. "Somatotopic Activation of Opioid Systems by Target-Directed Expectations of Analgesia." *Journal of Neuroscience* **1999**, *19*(9):3639-3648.

Bengtsson B-E, Gunnarsson B, Hagerman H, Liljelund K, and Wennmalm Å, Eds., "A Healthy Future - Pharmaceuticals in a Sustainable Society." Apoteket AB, MistraPharma, Stockholm County Council, Sweden, 2009, 201 pp; http://www.mistrapharma.se/program/mistrapharma/home/pressandmedia/newsarchive/news/releaseparty.5.75aa40e311fe8049dfc8000176.html, http://www.mistrapharma.se/download/18.56728aeb121660bd28c80002422/A+Healthy+Future.pdf.

Bengtsson G, Fossum A, and Lindqvist R. "Persistence of plasmid RP4 in Pseudomonas putida and loss of its expression of antibiotic resistance in a groundwater microcosm." *Soil Biology and Biochemistry* **2004**, *36*(6):999-1008; doi:10.1016/j.soilbio.2004.02.015.

Benijts T, Dams R, Günther W, Lambert W, and De Leenheer A. "Analysis of estrogenic contaminants in river water using liquid chromatography coupled to ion trap based mass spectrometry." *Rapid Communications in Mass Spectrometry* **2002**, *16*(14):1358-1364; doi:10.1002/rcm.716.

Benitez FJ, Acero JL, Real FJ, and Roldán G. "Ozonation of pharmaceutical compounds: Rate constants and elimination in various water matrices." *Chemosphere* **2009**, *77*(1):53-59; doi:10.1016/j.chemosphere.2009.05.035.

Benitez FJ, Real FJ, Acero JL, and Roldan G. "Removal of selected pharmaceuticals in waters by photochemical processes." *Journal of Chemical Technology and Biotechnology* **2009**, *84*(8):1186-1195; doi:10.1002/jctb.2156.

Benito-Pena E, Moreno-Bondi MC, Orellana G, Maquieira K, and Van Amerongen A. "Development of a novel and automated fluorescent immunoassay for the analysis of beta-lactam antibiotics." *Journal of Agricultural and Food Chemistry* **2005**, *53*(17):6635-6642; doi:10.1021/jf0511502.

Benito-Pena E, Partal-Rodera AI, Leon-Gonzalez ME, and Moreno-Bondi MC. "Evaluation of mixed mode solid phase extraction cartridges for the preconcentration of beta-lactam antibiotics in wastewater using liquid chromatography with UV-DAD detection." *Analytica Chimica Acta* **2006**, *556*(2):415-422; doi:10.1016/j.aca.2005.09.054.

Benner J, Salhi E, Ternes T, and von Gunten U. "Ozonation of reverse osmosis concentrate: Kinetics and efficiency of beta blocker oxidation." *Water Research* **2008**, *42*(12):3003-3012; doi:10.1016/j.watres.2008.04.002.

Benner J and Ternes TA. "Ozonation of Propranolol: Formation of Oxidation Products." *Environmental Science & Technology* **2009**, *43*(13):5086-5093; doi:10.1021/es900282c.

Benner J and Ternes TA. "Ozonation of Metoprolol: Elucidation of Oxidation Pathways and Major Oxidation Products." *Environmental Science & Technology* **2009**, *43*(14):5472-5480; doi:10.1021/es900280e.

Bennett GF. "Book Review: Endocrine Disrupters in Wastewater and Sludge Treatment Processes [James W. Birkett, John N. Lester (Eds.), Lewis Publishers, Boca Raton, FL, 2003, 304 pp., ISBN 1-56670-601-7]." *Journal of Hazardous Materials* **2003**, *100*(1-3):317-318; doi:10.1016/S0304-3894(03)00103-1.

Benninghoff AD and Williams DE. "Identification of a Transcriptional Fingerprint of Estrogen Exposure in Rainbow Trout Liver." *Toxicological Sciences* **2008**, *101*(1):65-80; doi:10.1093/toxsci/kfm238.

Benotti MJ. "Occurrence and fate of pharmaceuticals in wastewater – impacted environments using HPLC-ToF-MS." Doctoral Dissertation, State University of New York at Stony Brook, New York, NY, 2006. 324 pp; http://wwwlib.umi.com/dissertations/fullcit/3246768.

Benotti MJ and Brownawell BJ. "Distributions of Pharmaceuticals in an Urban Estuary during both Dry- and Wet-Weather Conditions." *Environmental Science & Technology* **2007**, *41*(16):5795-5802.

Benotti MJ and Brownawell BJ. "Microbial degradation of pharmaceuticals in estuarine and coastal seawater." *Environmental Pollution* **2009**, *157*(3):994-1002; doi:10.1016/j.envpol.2008.10.009.

Benotti MJ, Ferguson PL, Reiger RA, Iden CR, Heine CE, and Brownawell BJ. "HPLC/TOF-MS: An alternative to LC/MS/MS for

sensitive and selective determination of polar organic contaminants in the aquatic environment." in *ACS Symposium #850: Liquid Chromatography/Mass Spectrometry, MS/MS and Time of Flight MS: Analysis of Emerging Contaminants*, Almagor UM, Ed., American Chemical Society; 2003, Chapter 7, pp 109-127; http://www.powells.com/biblio?isbn=9780841238251.

Benotti MJ, Fisher SC, and Terracciano SA. "Occurrence of pharmaceuticals in shallow ground water of Suffolk County, New York, 2002-2005." Suffolk County Water Authority, 2006, 12 pp.

Benotti MJ, Stanford BD, Wert EC, and Snyder SA. "Evaluation of a Photocatalytic Reactor Membrane Pilot System for the Removal of Pharmaceuticals and Endocrine Disrupting Compounds from Water." *Water Research* **2009**, *43*(6):1513-1522; doi:10.1016/j.watres.2008.12.049.

Benotti MJ, Trenholm RA, Vanderford BJ, Holady JC, Stanford BD, and Snyder SA. "Pharmaceuticals and Endocrine Disrupting Compounds in U.S. Drinking Water." *Environmental Science & Technology* **2009**, *43*(3):597-603; doi:10.1021/es801845a.

Berckmans P, Dawans V, Schmets G, Vandenbergh D, and Autier P. "Inappropriate Drug-Donation Practices in Bosnia and Herzegovina, 1992 to 1996." *New England Journal of Medicine* **1997**, *337*(25):1842-1845; doi:10.1056/nejm199712183372512.

Berckmans P, Dawans V, Schmets G, Vandenbergh D, Autier P, and Matthys F. "Drug donation practices in Bosnia I Herzegovina." Médecins Sans Frontières - Belgium, 1996-1997, 32 pp; http://www.fondationaedes.org/upload/83/Main%20report%20Bosnia%20Herzegovina.doc.

Bercu JP, Parke NJ, Fiori JM, and Meyerhoff RD. "Human health risk assessments for three neuropharmaceutical compounds in surface waters." *Regulatory Toxicology and Pharmacology* **2008**, *50*(3):420-427; doi:10.1016/j.yrtph.2008.01.014.

Berenbaum MR and Eisner T. "Bugs' Bugs." *Science* **2008**, *322*(5898):52-53; doi:10.1126/science.1164873.

Berenguer B, La Casa C, de la Matta MJ, and Martin-Calero MJ. "Pharmaceutical Care: Past, Present and Future." *Current Pharmaceutical Design* **2004**, *10*:3931-3946; doi:10.2174/1381612043382521.

Berg C. "Environmental Pollutants and the Reproductive System in Birds: Developmental Effects of Estrogenic Compounds." Doctoral Dissertation, Uppsala University, Faculty of Science and Technology, Uppsala, Sweden, 2000. 63 pp; http://www.diva-portal.org/diva/getDocument?urn_nbn_se_uu_diva-501-1__fulltext.pdf.

Berg F and Kuss E. "Serum concentration and urinary excretion of “classical” estrogens, catecholestrogens and 2-methoxyestrogens in normal human pregnancy." *Archives of Gynecology and Obstetrics* **1992**, *251*(1):17-27; doi:10.1007/BF02718274.

Berg T, Lundanes E, Christophersen AS, and Strand DH. "Determination of opiates and cocaine in urine by high pH mobile phase reversed phase UPLC-MS/MS." *Journal of Chromatography B* **2009**, *877*(4):421-432; doi:10.1016/j.jchromb.2008.12.052.

Berger K, Petersen B, and Buening-Pfaue H. "Persistence of drugs occurring in liquid manure in the food chain." *Archives fuer Lebensmittelhygeine* **1986**, *37*(4):99-102.

Bergh JJ and Breytenbach J. "High-performance liquid chromatographic analysis of trimethroprim in the presence of its degradation products." *Journal of Chromatography* **1990**, *513*:392-396; doi:10.1002/jps.2600690206.

Bergh K. "Ecological Risk Assessment of Pharmaceuticals and personal care products in surface water." Masters Dissertation, Simon Fraser University, Department of Biological Sciences, Burnaby, BC, Canada, 2005. 225 pp; http://ir.lib.sfu.ca/retrieve/2491/etd1839.pdf.

Bergwerff AA, Kuiper RV, and Scherpenisse P. "Persistence of residues of malachite green in juvenile eels (Anguilla anguilla)." *Aquaculture* **2004**, *233*(1-4):55-63; doi:10.1016/j.aquaculture.2003.11.013.

Berkowitz B, Dror I, and Yaron B. "PPCPs." in *Contaminant geochemistry*, Springer; 2008, 4.4, pp 86-89; http://www.springer.com/geosciences/book/978-3-540-74381-1?cm_mmc=Google-_-Book%20Search-_-Springer-_-0.

Berkrot B. "UPDATE 1-FDA adds testosterone gel child exposure warnings." Reiters, 2009; http://www.reuters.com/article/governmentFilingsNews/idUSN0737685120090507.

Berlin CM, Kacew S, Lawrence R, LaKind JS, and Campbell R. "Criteria for chemical selection for programs on human milk surveillance and research for environmental chemicals." *Journal of Toxicology and Environmental Health, Part A: Current Issues* **2002**, *65*(22):1839-1851; doi:10.1080/0098410029007174 8.

Bernard S and Gray NF. "Aerobic digestion of pharmaceutical and domestic wastewater sludges at ambient temperature." *Water Research* **2000**, *34*(3):725-734; doi:10.1016/S0043-1354(99)00234-1.

Bernet D, Liedtke A, Bittner D, Eggen RIL, Kipfer S, Kung C*, et al.* "Gonadal malformations in whitefish from Lake Thun: Defining the case and evaluating the role of EDCs." *Chimia* **2008**, *62*(5):383-388; doi:10.2533/chimia.2008.383.

Bernhard M, Eubeler JP, Zok S, and Knepper TP. "Aerobic biodegradation of polyethylene glycols of different molecular weights in wastewater and seawater." *Water Research* **2008**, *42*(19):4791-4801; doi:10.1016/j.watres.2008.08.028.

Bernhard M, Muller J, and Knepper TP. "Biodegradation of persistent polar pollutants in wastewater: Comparison of an optimised lab-scale membrane bioreactor and activated sludge treatment." *Water Research* **2006**, *40*(18):3419-3428; doi:10.1016/j.watres.2006.07.011.

Berry J. "The state of medicine recycling." *Hazardous* **2008**, (October):2.

Berry MA and Rondinelli DA. "Environmental management in the pharmaceutical industry: Integrating corporate responsibility and business strategy." *Environmental Quality Management* **2000**, *9*(3):21-35; doi:10.1002/1520-6483(200021)9:3<21::AID-TQEM3>3.0.CO;2-4.

Berset JD, Kupper T, Etter R, and Tarradellas J. "Considerations about the enantio selective transformation of polycyclic musks in wastewater, treated wastewater and sewage sludge and analysis of their fate in a sequencing batch reactor plant." *Chemosphere* **2004**, *57*(8):987-996; doi:10.1016/j.chemosphere.2004.07.020.

Berset J-D, Bigler P, and Herren D. "Analysis of nitro musk compounds and their amino metabolites in liquid sewage sludges using NMR and mass spectrometry." *Analytical Chemistry* **2000**, *72*(9):2124-2131; doi:10.1021/ac991006d.

Bertelsen KM, Venkatakrishnan K, Von Moltke LL, Obach RS, and Greenblatt DJ. "Apparent mechanism-based inhibition of human CYP2D6 in vitro by paroxetine: Comparison with fluoxetine and quinidine." *Drug Metabolism and Disposition* **2003**, *31*(3):289-293.

Bertelsen SL, Hoffman AD, Gallinat CA, Elonen CM, and Nichols JW. "Evaluation of log K_{ow} and tissue lipid content as predictors of chemical partitioning to fish tissues." *Environmental Toxicology and Chemistry* **1998**, *17*(8):1447-1455; doi:10.1897/1551-5028(1998)017<1447:EOLKOA>2.3.CO;2.

Bertera WJ. "Promoting "Recycling" of Sewage Sludge." *International Journal of Occupational and Environmental Health* **2006**, *12*(2):190-191.

Bertin A, Inostroza PA, and Quiñones RA. "A theoretical estimation of the concentration of steroid estrogens in effluents released from municipal sewage treatment plants into aquatic ecosystems of central-southern Chile." *Science of the Total Environment* **2009**, *407*(17):4965-4971; doi:10.1016/j.scitotenv.2009.05.032.

Berto J, Rochenbach GC, Barreiros MAB, Corrêa AXR, Peluso-Silva S, and Radetski CM. "Physico-chemical, microbiological and ecotoxicological evaluation of a septic tank/Fenton reaction combination for the treatment of hospital wastewaters." *Ecotoxicology and Environmental Safety* **2009**, *72*(4):1076-1081; doi:10.1016/j.ecoenv.2008.12.002.

Bertuglia KN, Lyons CE, Gutierrez A, Laycock C, and Swanson K. "Addressing pharmaceuticals and personal care product contamination: A unique opportunity to link science to action." *Journal of the American Water Resources Association* **2008**, *Submitted*:17 pp.

Besse J-P. "Exposure Assessment of Pharmaceuticals and Their Metabolites in the Aquatic Environment: Application to the French Situation and Preliminary Prioritization." *Human and Ecological Risk Assessment* **2008**, *14*(4):665-695; doi:10.1080/10807030802235078.

Besse JP. "Typology of PPs with regard to ERA procedure." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 58 pp.

Besse J-P and Garric J. "Médicaments à usage humain: risque d'exposition et effets sur les milieux récepteurs. Proposition d'une liste de médicaments à usage humain à surveiller dans les eaux de surface continentales." Agence de l'Eau R.M.C., Lyon, June, 2007, 241 pp; http://www.norman-network.com/public/library/docs/rmc-medic_vf_juin2007.pdf.

Besse J-P and Garric J. "Human pharmaceuticals in surface waters: Implementation of a prioritization methodology and application to the French situation." *Toxicology Letters* **2008**, *176*(2):104-123; doi:10.1016/j.toxlet.2007.10.012.

Besse J-P and Garric J. "Progestagens for human use, exposure and hazard assessment for the aquatic environment." *Environmental Pollution* **2009**, *157*(12):3485-3494; doi:10.1016/j.envpol.2009.06.012.

Bester K. "Triclosan in a sewage treatment process—balances and monitoring data." *Water Research* **2003**, *37*(16):3891-3896; doi:10.1016/S0043-1354(03)00335-X.

Bester K. "Retention characteristics and balance assessment for two polycyclic musk fragrances (HHCB and AHTN) in a typical German sewage treatment plant." *Chemosphere* **2004**, *57*(8):863-870; doi:10.1016/j.chemosphere.2004.08.032.

Bester K. "Comparison of TCPP concentrations in sludge and wastewater in a typical German sewage treatment plant - comparison of sewage sludge from 20 plants." *Journal of Environmental Monitoring* **2005**, *7*(5):509-513; doi:10.1039/b502318a.

Bester K. "Fate of triclosan and triclosan-methyl in sewage treatment plants and surface waters." *Archives of Environmental Contamination and Toxicology* **2005**, *49*(1):9-17; doi:10.1007/s00244-004-0155-4.

Bester K. "Polycyclic musks in the Ruhr catchment area - transport, discharges of waste water, and transformations of HHCB, AHTN and HHCB-lactone." *Journal of Environmental Monitoring* **2005**, *7*(1):43-51; doi:10.1039/b409213a.

Bester K. "Personal care compounds in the environment : pathways, fate and methods for determination." Weinheim, Germany, WILEY-VCH Verlag GmbH & Co. KGaA, 2007; http://www.wiley.com/WileyCDA/WileyTitle/productCd-3527315675.html, http://locatorplus.gov/cgi-bin/Pwebrecon.cgi?DB=local&v1=1&ti=1,1&Search_Arg=101314089&Search_Code=0359&CNT=20&SID=1.

Bester K. "Quantification with HPLC–MS/MS for environmental issues: quality assurance and quality assessment." *Analytical and Bioanalytical Chemistry* **2008**, *391*(1):15-20; doi:10.1007/s00216-008-1991-2.

Bester K. "Analysis of musk fragrances in environmental samples." *Journal of Chromatography A* **2008**, *1216*(3):470-480; doi:10.1016/j.chroma.2008.08.093.

Bester K. "Analysis of musk fragrances in environmental samples." *Journal of Chromatography A* **2009**, *1216*(3):470-480; doi:10.1016/j.chroma.2008.08.093.

Bester K and Hühnerfuss H. "Improvements of a combined size exclusion chromatography and solid phase extraction approach for the clean-up of marine sediment samples for trace analysis of pesticides." *Fresenius Journal of Analytical Chemistry* **1997**, *358*(5):630-634; doi:10.1007/s002160050481.

Bester K, Huhnerfuss H, Lange W, Rimkus GG, and Theobald N. "Results of non target screening of lipophilic organic pollutants in the German bight II: Polycyclic musk fragrances." *Water Research* **1998**, *32*(6):1857-1863; doi:10.1016/S0043-1354(97)00424-7.

Bester K, Scholes L, Wahlberg C, and McArdell C. "Sources and Mass Flows of Xenobiotics in Urban Water Cycles—an Overview on Current Knowledge and Data Gaps." *Water, Air, & Soil Pollution: Focus* **2008**, *8*(5):407-423; doi:10.1007/s11267-008-9189-3.

Bethan B, Bester K, Hühnerfuss H, and Rimkus G. "Bromocyclen contamination of surface water, waste water and fish from Northern Germany, and gas chromatographic chiral separation." *Chemosphere* **1997**, *34*(11):2271-2280; doi:10.1016/S0045-6535(97)00039-8.

Betts KS. "The genetics behind environmental stress." *Environmental Science & Technology* **2000**, *34*(21):462-463.

Betts KS. "Keeping Drugs out of Drinking Water." *Environmental Science & Technology* **2002**, *36*(1):377A-378A.

Betts KS. "Phthalates in Prescription Drugs Some Medications Deliver High Doses." *Environmental Health Perspectives* **2009**, *117*(2):A74.

Betts KS. "Pharmed Fish." *Environmental Health Perspectives* **2009**, *117*(6):A240-A241.

Beyond Pesticides (formerly National Coalition Against the Misuse of Pesticides). "Antimicrobials and Antibacterials." Beyond Pesticides, March, 2009, 1 pp; http://www.beyondpesticides.org/antibacterial/index.htm.

Beyond Pesticides (formerly National Coalition Against the Misuse of Pesticides). "Triclosan." Beyond Pesticides, March, 2009, 1 pp; http://www.beyondpesticides.org/antibacterial/triclosan.htm.

Bezaire Dussault AME. "Effects of pharmaceuticals and personal care products in benthic invertebrates." Doctoral Dissertation, University of Guelph, Guelph, Ontario, Canada, 2008. 247 pp.

Bhandari A. "Introduction." in *Contaminats of Emerging Environmental Concern*, Bhandari A, Surampalli RY, Adams CD, Champagne P, Ong SK, Tyagi RD and Zhang TC, Eds., American Society of Civil Engineers; Reston, Virginia, 2008, Chapter 1, pp 1-7; http://books.google.com/books?id=1G7D2d99orkC&source=gbs_navlinks_s.

Bhandari A and Kang X. "Hazardous Organic Chemicals in Biosolids Recycled as Soil Amendments." *The Handbook of Environmental Chemistry* **2005**, *5, Part F*:217-239; doi:10.1007/b11440.

Bhandari A, Surampalli RY, Adams CD, Champagne P, Ong SK, Tyagi RD*, et al.*, Eds., "Contaminats of Emerging Environmental Concern." American Society of Civil Engineers, Reston, Virginia, 2008, 490 pp; http://books.google.com/books?id=1G7D2d99orkC&source=gbs_navlinks_s.

Bhargava HN and Leonard PA. "Triclosan: Applications and safety." *American Journal of Infection Control* **1996**, *24*(3):209-218; doi:10.1016/S0196-6553(96)90017-6.

Bhaumik S, Christodoulatos C, Brodman BW, and Pal N. "Biodegradation of glycerol trinitrate by activated sludge: Cosubstrate requirements, inhibition, and kinetics." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **1998**, *33*(4):547-571; doi:10.1080/10934529809376748.

Bhavnani SM, Drake JA, Forrest A, Deinhart JA, Jones RN, Biedenbach DJ*, et al.* "A nationwide, multicenter, case-control study comparing risk factors, treatment, and outcome for vancomycin-resistant and -susceptible enterococcal bacteremia." *Diagnostic Microbiology and Infectious Disease* **2000**, *36*(3):145-158; doi:10.1016/S0732-8893(99)00136-4.

Bhowmick SK, Ricke T, and Rettig KR. "Sexual precocity in a 16-month-old boy induced by indirect topical exposure to testosterone." *Clinical Pediatrics (Phila)* **2007**, *46*(6):540-543.

Biales AD, Bencic DC, Flick RW, Lazorchak J, and Lattier DL. "Quantification and associated variability of induced vitellogenin gene transcripts in fathead minnow (Pimephales promelas) by quantitative real-time polymerase chain reaction assay." *Environmental Toxicology and Chemistry* **2007**, *26*(2):287-296.

Bialk HM, Hedman C, Castillo A, and Pedersen JA. "Laccase-Mediated Michael Addition of 15N-Sulfapyridine to a Model Humic Constituent." *Environmental Science & Technology* **2007**, *41*(10):3593-3600.

Bialk Hm and Pedersen JA. "Oxidative coupling of human and veterinary pharmaceuticals with monomeric humic constituents." in Humic Substances and Soil and Water Environment, Sao Carlos, Brazil, 2004, 725-728 pp.

Bialk HM and Pedersen JA. "NMR Investigation of Enzymatic Coupling of Sulfonamide Antimicrobials with Humic Substances." *Environmental Science & Technology* **2008**, *42*(1):106-112; doi:10.1021/es070779d.

Bialk HM, Simpson AJ, and Pedersen JA. "Cross-Coupling of Sulfonamide Antimicrobial Agents with Model Humic Constituents." *Environmental Science & Technology* **2005**, *39*(12):4463-4473.

Białk-Bielińska A, Kumirska J, Palavinskas R, and Stepnowski P. "Optimization of multiple reaction monitoring mode for the trace analysis of veterinary sulfonamides by LC–MS/MS." *Talanta* **2009**, *80*(2):947-953; doi:10.1016/j.talanta.2009.08.023.

Biau S, Bayle S, Barbara PD, and Roig B. "The chick embryo: an animal model for detection of the effects of hormonal compounds." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1397-1403; doi:10.1007/s00216-006-0870-y.

Bicchi C, Schilirò T, Pignata C, Fea E, Cordero C, Canale F*, et al.* "Analysis of environmental endocrine disrupting chemicals using the E-screen method and stir bar sorptive extraction in wastewater treatment plant effluents." *Science of the Total Environment* **2009**, *407*(6):1842-1851; doi:10.1016/j.scitotenv.2008.11.039.

Bickers D, Calow P, Greim H, Hanifin JM, Rogers AE, Saurat JH*, et al.* "A toxicologic and dermatologic assessment of linalool and related esters when used as fragrance ingredients." *Food and Chemical Toxicology* **2003**, *41*(7):919-942; doi:10.1016/S0278-6915(03)00016-4.

Bickers DR, Calow P, Greim HA, Hanifin JM, Rogers AE, Saurat J-H*, et al.* "The safety assessment of fragrance materials." *Regulatory Toxicology and Pharmacology* **2003**, *37*(2):218-273; doi:10.1016/S0273-2300(03)00003-5.

Bickley LK, Lange A, Winter MJ, and Tyler CR. "Evaluation of a carp primary hepatocyte culture system for screening chemicals for oestrogenic activity." *Aquatic Toxicology* **2009**, *94*(3):195-203; doi:10.1016/j.aquatox.2009.07.006.

BIDD "PharmGED: PharmacoGenetic Effect Database." Bioinformatics & Drug Design Group, Computational Science Department, Science Faculty, and National University of Singapore 2008; http://bidd.cz3.nus.edu.sg/phg/.

BIDD "TRMP Database: Therapeutically Relevant Multiple Pathways Database." Bioinformatics & Drug Design Group, Computational Science Department, Science Faculty, and National University of Singapore 2008; http://bidd.nus.edu.sg/group/trmp/trmp.asp.

BIDD "TTD: Therapeutic Target Database." Bioinformatics & Drug Design Group, Computational Science Department, Science Faculty, and National University of Singapore 2008; http://bidd.nus.edu.sg/group/cjttd/ttd.asp.

BIDD "TCMID: Traditional Chinese Medicine Information Database." Bioinformatics & Drug Design Group, Computational Science Department, Science Faculty, and National University of Singapore 2008; http://bidd.nus.edu.sg/group/tcm-id/tcmid.asp.

BIDD "Drug Adverse Reaction Target (DART)." Bioinformatics & Drug Design Group, Computational Science Department, Science Faculty, and National University of Singapore 2008; http://xin.cz3.nus.edu.sg/group/drt/dart.asp.

BIDD "DITOP: Drug-induced toxicity related proteins database." Bioinformatics & Drug Design Group, Computational Science Department, Science Faculty, and National University of Singapore 2008; http://bioinf.xmu.edu.cn/databases/ADR/index.html.

BIDD "ADME (Absorption, Distribution, Metabolism, Excretion) AP: Drug ADME Associated Protein Database." Bioinformatics & Drug Design Group, Computational Science Department, Science Faculty, and National University of Singapore 2008; http://bidd.nus.edu.sg/group/admeap/admeap.asp.

Biello D, "Flushing Out a Record of Local Drug Use." *Scientific American*, 2007, August 21 http://www.sciam.com/article.cfm?id=flushing-out-local-drug-use.

Biello D, "A stash in every flush." *Scientific American*, December, 2007, 3 pp pp; http://www.sciamdigital.com/index.cfm?fa=Products.ViewIssuePreview&ISSUEID_CHAR=26483BA7-3048-8A5E-109D6597AA35AF10&ARTICLEID_CHAR=37184B50-3048-8A5E-10C31715168E0F41.

Biello D. "Cocaine Contaminates Majority of U.S. Currency." *Scientific American* **2009**.

Bierkens J, Maes J, and Plaetse FV. "Dose-dependent induction of heat shock protein 70 synthesis in Raphidocelis subcapitata following exposure to different classes of environmental pollutants." *Environmental Pollution* **1998**, *101*(1):91-97; doi:10.1016/S0269-7491(98)00010-4.

Bierkens JGEA. "Applications and pitfalls of stress-proteins in biomonitoring." *Toxicology* **2000**, *153*(1-3):61-72.

Biggs ML, Haque R, Moore L, Smith A, Ferreccio C, and Hopenhayn-Rich C. "Arsenic-Laced Water in Chile." *Science* **1998**, *281*(5378):783; doi:10.1126/science.281.5378.783g.

Bijlsma L, Sancho JV, Pitarch E, Ibáñez M, and Hernández F. "Simultaneous ultra-high-pressure liquid chromatography-tandem mass spectrometry determination of amphetamine and amphetamine-like stimulants, cocaine and its metabolites, and a cannabis metabolite in surface water and urban wastewater." *Journal of Chromatography A* **2009**, *1216*(15):3078-3089; doi:10.1016/j.chroma.2009.01.067.

Bila D, Montalvão AF, Azevedo DdA, and Dezotti M. "Estrogenic activity removal of 17β-estradiol by ozonation and identification of by-products." *Chemosphere* **2007**, *69*(5):736-746; doi:10.1016/j.chemosphere.2007.05.016.

Bila DM and Dezotti M. "Fármacos no meio ambiente [Pharmaceutical drugs in the environment]." *Quimica Nova* **2003**, *26*(4):523-530; doi:10.1590/S0100-40422003000400015.

Bila DM and Dezotti M. "Endocrine disrupters in the environment: Part 1 - Effects and consequences." *Quimica Nova* **2007**, *30*(3): 651-666; doi:10.1590/S0100-40422007000300027.

Binelli A, Cogni D, Parolini M, Riva C, and Provini A. "In vivo experiments for the evaluation of genotoxic and cytotoxic effects of Triclosan in Zebra mussel hemocytes." *Aquatic Toxicology* **2009**, *91*(3):238-244; doi:10.1016/j.aquatox.2008.11.008.

Binelli A, Cogni D, Parolini M, Riva C, and Provini A. "Cytotoxic and genotoxic effects of in vitro exposure to Triclosan and Trimethoprim on zebra mussel (Dreissena polymorpha) hemocytes." *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* **2009**, *150*(1):50-56; doi:10.1016/j.cbpc.2009.02.005.

Binelli A, Parolini M, Cogni D, Pedriali A, and Provini A. "A multi-biomarker assessment of the impact of the antibacterial trimethoprim on the non-target organism Zebra mussel (Dreissena polymorpha)." *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* **2009**, *150*(3):329-336; doi:10.1016/j.cbpc.2009.05.011.

Binh CTT, Heuer H, Gomes NCM, Kotzerke A, Fulle M, Wilke B-M*, et al.* "Short-term effects of amoxicillin on bacterial communities in manured soil." *FEMS Microbiology Ecology* **2007**, *62*(3):290-302; doi:10.1111/j.1574-6941.2007.00393.x.

Bioscience P. "Patent for disinfectant in foods: Silver dihydrogen citrate (SDC)." **2008**, http://sanfrancisco.bizjournals.com/sanfrancisco/prnewswire/press_releases/California/2008/10/30/LATH068.

Bioscience P. "Seeking FDA approvals for personal care products." **2008**, http://www.purebio.com/products/sdc_fda_development.

Bioscience P. "Already used as a hard-surface disinfective." **2008**, http://www.purebio.com/products/sdc_fda_development.

BIRG "DITOP: Drug-induced toxicity related proteins." Bioinformatic Research Group 2009; http://bioinf.xmu.edu.cn/databases/ADR/searchresult.php.

Birkel M, Erking W, and Wetzelsberger N. "Improved internally standardized GC-ECD method for the determination of free and conjugated triclosan (Irgasan DP 300) in human plasma." *Methods and Findings in Experimental and Clinical Pharmacology* **1993**, *15*(9):623-628.

Birkett JA and Lester JN, Eds., "Endocrine disruptors in wastewater and sludge treatment processes." CRC Press LLC, Boca Raton, FL, 2003, 232 pp; http://books.google.com/books?hl=en&id=ZJDS0UqAFfYC&dq=Endocrine+disruptors+in+wastewater+and+sludge+treatment+processes&printsec=frontcover&source=web&ots=yisF9Rif83&sig=OYm2U4YGoM6-UOy6nKiQlPYbNYk&sa=X&oi=book_result&resnum=3&ct=result.

Bisaraya SC and Patil DM. "Determination of salicylic acid and phenol (ppm level) in effluent from aspirin plant." *Research and Industry* **1993**, *38*:170-172.

Bisceglia KJ, Roberts AL, and Lippa KA. "Development of a comprehensive LC/MS/MS method for the detection of cocaine and other illicit drugs in municipal wastewater." presented at The 238th ACS National Meeting, 16-20 August, at Washington, DC, 2009; http://oasys2.confex.com/acs/238nm/techprogram/P1285324.HTM.

Bisceglia KJ, Yu JT, Coelhan M, Bouwer EJ, and Roberts AL. "Trace Determination of Pharmaceuticals and other Wastewater-Derived Micropollutants by Solid Phase Extraction and Gas Chromatography/Mass Spectrometry." *Journal of Chromatography A* **2009**, *In Press*; doi:10.1016/j.chroma.2009.11.062.

Biselli S, Gatermann R, Kallenborn R, Sydnes LK, and Hűhnerfuss H. "Biotic and abiotic transformation pathways of synthetic musks in the aquatic environment." in *Synthetic Musk Fragrances in the Environment*, Rimkus GG, Ed., Springer-Verlag; Heidelberg, 2004, pp 189-211.

Bisson M, Strub MP, Ferrieres C, and Gabarda-Oliva D. "Characterization by both analytical and genotoxicological approaches of the gas effluents and clinkers produced by a specific incinerator for infectious wastes during the incineration of cytostatic drugs." *Toxicology Letters* **2007**, *172*(Supplement 1):S112-S113; doi:10.1016/j.toxlet.2007.05.302.

Bistodeau TJ, Barber LB, Bartell SE, Cediel RA, Grove KJ, Klaustermeier J*, et al.* "Larval exposure to environmentally relevant mixtures of alkylphenolethoxylates reduces reproductive competence in male fathead minnows." *Aquatic Toxicology* **2006**, *79*(3):268-277; doi:10.1016/j.aquatox.2006.06.015.

Bitsch N, Dudas C, Korner W, Failing K, Biselli S, Rimkus G*, et al.* "Estrogenic activity of musk fragrances detected by the E-screen assay using human MCF-7 cells." *Archives of Environmental Contamination and Toxicology* **2002**, *43*(3):257-264; doi:10.1007/s00244-002-1192-5.

Biyela PT, Lin J, and Bezuidenhout CC. "The role of aquatic ecosystems as reservoirs of antibiotic resistant bacteria and antibiotic resistance genes." *Water Science and Technology* **2004**, *50*(1):45-50.

BJA. "Developing a Strategy for a Multiagency Response to Clandestine Drug Laboratories." NCJ 142643, Bureau of Justice Assistance, Office of Justice Programs, U.S. Department of Justice, June 1993. 152 pp; http://www.ncjrs.gov/pdffiles/clan.pdf.

Bjerregaard P, Andersen DN, Pedersen KL, Pedersen SN, and Korsgaard B. "Estrogenic effect of propylparaben (propylhydroxybenzoate) in rainbow trout Oncorhynchus mykiss after exposure via food and water." *Comparative Biochemistry and*

Physiology, Part C: Toxicology & Pharmacology **2003**, *136*(4):309-317; doi:10.1016/j.cca.2003.10.004.

Bjerregaard P, Hansen PR, Larsen KJ, Erratico C, Korsgaard B, and Holbech H. "Vitellogenin as a biomarker for estrogenic effects in brown trout, salmo trutta: laboratory and field investigations." *Environmental Toxicology and Chemistry* **2008**, *27*(11):2387-2396; doi:10.1897/08-148.1.

Björk L. "Läkemedel som miljö- och hälsorisk (Medicines as environmental and health risks)." *Apoteket* **1997**, *2*(21-22).

Björkblom C, Högfors E, Salste L, Bergelin E, Olsson P-E, Katsiadaki I*, et al.* "Estrogenic and androgenic effects of municipal wastewater effluent on reproductive endpoint biomarkers in three-spined stickleback (gasterosteus aculeatus)." *Environmental Toxicology and Chemistry* **2009**, *28*(5):1063-1071; doi:10.1897/08-337.1.

Björklund H, Bondestam J, and Bylund G. "Residues of Oxytetracycline in Wild Fish and Sediments from Fish Farms." *Aquaculture* **1990**, *86*(4):359-367; doi:10.1016/0044-8486(90)90324-G.

Björklund H and Bylund G. "Temperature-related absorption and excretion of oxytetracycline in rainbow trout (Salmo gairdneri R.)." *Aquaculture* **1990**, *84*(3-4):363-372; doi:10.1016/0044-8486(90)90101-R.

Björklund H and Bylund G. "Comparative pharmacokinetics and bioavailability of oxolinic acid and oxytetracycline in rainbow trout (Oncorhynchus mykiss)." *Xenobiotica* **1991**, *21*(11):1511-1520.

Bjorklund HV, Rabergh CMI, and Bylund G. "Residues of oxolinic acid and oxytetracycline in fish and sediments from fish farms." Åbo Akademi University, Finland, 1991.

Björklund HV, Råbergh CMI, and Bylund G. "Residues of oxolinic acid and oxytetracycline in fish and sediments from fish farms." *Aquaculture* **1991**, *97*(1):85-96; doi:10.1016/0044-8486(91)90281-B.

Björklund K. "Human antibiotics in sewage treatment plant effluents, recipient waters and sediments." Umeå University, Department of Chemistry, 2005. 51 pp; http://www.chem.umu.se/dep/envichem/forskning/examensarbeten/avslutade_examensarbeten/2005_08_Karin_Bjorklund.pdf.

Björkman J, Nagaev I, Berg OG, Hughes D, and Andersson DI. "Effects of environment on compensatory mutations to ameliorate costs of antibiotic resistance (summary by J. Bull; B. Levin "Mice are not furry petri dishes," same issue, 1409-1410)." *Science* **2000**, *287*(25 February):1479-1482; doi:10.1126/science.287.5457.1479.

Bjorlenius B, Wahlberg C, and Stockholm Water Company. "The sewage treatment plant - how does it work?" in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2004, Chapter 2, pp 20-37; http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

BLAC. "Auswirkungen der Anwendung von Clofibrinsäure und anderer Arzneimittel auf die Umwelt und Trinkwasserversorgung [Effect of application of Clofibric acid and other drugs on the environment and drinking water]." Bund/Länderausschuss für Chemikaliensicherheit (BLAC), Hamburg, Germany, December, 1998, 93 pp; http://www.blac.de/servlet/is/2146/P-2a.pdf.

BLAC. "Arzneimittel in der Umwelt: Konzept für ein Untersuchungsprogramm [Pharmaceuticals in the environment - plan for a study program]." Bund/Länderausschuss für Chemikaliensicherheit (BLAC), Hamburg, Germany, 27-28 October, 1999, 43 pp; http://www.blac.de/servlet/is/2146/P-2b.pdf.

BLAC. "Arzneimittel in der Umwelt. Auswertung der Untersuchungsergebnisse [Pharmaceuticals in the environment: Evaluation of the analysis]." Bund/Länderausschuss für Chemikaliensicherheit (BLAC), Hamburg, Germany, November, 2003, 175 pp; http://www.blac.de/servlet/is/2146/P-2c.pdf.

Black C. "Curing the problem of discarding pills." *Seattle Post-Intelligencer* **2008**.

Black MC and Armbrust K. "The Environmental Occurrence, Fate, and Ecotoxicity of Selective Serotonin Reuptake Inhibitors (SSRIs) in Aquatic Environments." USEPA, EPA Grant Number R829006, University of Georgia, Mississippi State University, 2001-2007.

Blackburn K, Stickney JA, Carlson-Lynch HL, McGinnis PM, Chappell L, and Felter SP. "Application of the threshold of toxicological concern approach to ingredients in personal and household care products." *Regulatory Toxicology and Pharmacology* **2005**, *43*(3):249-259; doi:10.1016/j.yrtph.2005.08.007.

Blackwell P, Boxall A, Halling-Sorensen B, Hermansen S, Ingerslev S, Jacobsen A*, et al.* "Environmental Risk Assessment for Veterinary Medicinal Products Part 5. A guide to risk assessment of veterinary medicinal products used in animal husbandry [Milieurisicobeoordeling voor diergeneesmiddelen deel 5. Richtsnoeren voor beoordeling]." Rijksinstituut voor Volksgezondheid en Milieu RIVM, Montforts MHMM, Ed., 7 October, 2003, 78 pp; http://hdl.handle.net/10029/8996.

Blackwell PA, Boxall ABA, Kay P, and Noble H. "Evaluation of a lower tier exposure assessment model for veterinary medicines." *Journal of Agricultural and Food Chemistry* **2005**, *53*(6):2192-2201; doi:10.1021/jf049527b.

Blackwell PA, Holten Lutzhoft H-C, Ma H-P, Halling-Sorensen B, Boxall ABA, and Kay P. "Ultrasonic extraction of veterinary antibiotics from soils and pig slurry with SPE clean-up and LC-UV and fluorescence detection." *Talanta* **2004**, *64*(4):1058-1064; doi:10.1016/j.talanta.2004.05.006.

Blackwell PA, Kay P, Ashauer R, and Boxall ABA. "Effects of agricultural conditions on the leaching behaviour of veterinary antibiotics in soils." *Chemosphere* **2009**, *75*(1):13-19; doi:10.1016/j.chemosphere.2008.11.070.

Blackwell PA, Kay P, and Boxall ABA. "The dissipation and transport of veterinary antibiotics in a sandy loam soil." *Chemosphere* **2007**, *67*(2):292-299; doi:10.1016/j.chemosphere.2006.09.095.

Blackwell PA, Lutzhoft H-CH, Ma H-P, Halling-Sorensen B, Boxall ABA, and Kay P. "Fast and robust simultaneous determination of three veterinary antibiotics in groundwater and surface water using a tandem solid-phase extraction with high-performance liquid chromatography-UV detection." *Journal of Chromatography A* **2004**, *1045*(1-2):111-117.

Blackwood DJ, Ellis JB, Revitt DM, and Gilmour DJ. "Factors influencing exfiltration processes in sewers." *Water Science and Technology* **2005**, *51*(2):147-154.

Blaha T. "Health and environmental risks due to the usage of antimicrobials and antiparasitics — Strategies of avoidance and ways out." *Deutsch tierärztl Wschr* **1996**, *103*:278-280.

Blaise C, Gagné F, Eullaffroy P, and Férard F. "Ecotoxicity of selected pharmaceuticals of urban origin discharged to the Saint-Lawrence River (Québec, Canada): a review." *Brazilian Journal of Aquatic Science and Technology* **2006**, *10*(2):29-51.

Blaise C, Gagné F, Quinn B, Harwood M, Pavlova P, and Tardiff R. "Toxic effects of selected pharmaceuticals emitted to the St-Lawrence River from a major municipal wastewater source (Montréal, QUÉ., Canada)." Slide Presentation, 12th Annual International Conference on the St. Lawrence River Ecosystem, Environment Canada, Université de Montréal, Cornwall, Ontario, 16-18 May 2005; https://www.riverinstitute.ca/ConferenceDownloads/images/PDF/Blaise,%20Centre%20Saint%20Laurent.pdf.

Blaise C, Gagne F, Salazar M, Salazar S, Trottier S, and Hansen PD. "Experimentally-induced feminisation of freshwater mussels after long-term exposure to a municipal effluent." *Fresenius Environmental Bulletin* **2003**, *12*(8):865-870.

Blanco E, Casais MdC, Mejuto MdC, and Cela R. "Combination Of Off-Line Solid-Phase Extraction And On-Column Sample Stacking For Sensitive Determination Of Parabens And P-Hydroxybenzoic Acid In Waters By Non-Aqueous Capillary Electrophoresis." *Analytica Chimica Acta* **2009**, *647*(1):104-111; doi:10.1016/j.aca.2009.05.024.

Blanco G, Lemus JA, and Grande J. "Microbial pollution in wildlife: Linking agricultural manuring and bacterial antibiotic resistance in red-billed choughs." *Environmental Research* **2009**, *109*(4):405-412; doi:10.1016/j.envres.2009.01.007.

Blanco M, Gutierrez-Martin CB, Rodriguez-Ferri EF, Roberts MC, and Navas J. "Distribution of Tetracycline Resistance Genes in Actinobacillus pleuropneumoniae Isolates from Spain." *Antimicrobial Agents and Chemotherapy* **2006**, *50*(2):702-708; doi:10.1128/aac.50.2.702-708.2006.

Blankespoor CL, Reimink RL, and Blankespoor HD. "Efficacy of praziquantel in treating natural schistosome infections in common mergansers." *Journal of Parasitology* **2001**, *87*(2):424-426; doi:10.1645/0022-3395(2001)087[0424:EOPITN]2.0.CO;2.

Blanset DL, Zhang J, and Robson MG. "Probabilistic Estimates of Lifetime Daily Doses from Consumption of Drinking Water Containing Trace Levels of N,N-diethyl-meta-toluamide (DEET), Triclosan, or Acetaminophen and the Associated Risk to Human Health." *Human and Ecological Risk Assessment* **2007**, *13*(3):615 - 631; doi:10.1080/10807030701341209.

Blasco J and DelValls A. "Impact of Emergent Contaminants in the Environment: Environmental Risk Assessment." *The Handbook of Environmental Chemistry* **2008**, *5, Part S/1*:169-188; doi:10.1007/698_5_107.

Blasco MD, Esteve C, and Alcaide E. "Multiresistant waterborne pathogens isolated from water reservoirs and cooling systems." *Journal of Applied Microbiology* **2008**, *105*(2):469-475; doi:10.1111/j.1365-2672.2008.03765.x.

Blazer VS, Iwanowicz LR, Iwanowicz DD, Smith DR, Young JA, Hedrick JD*, et al.* "Intersex (Testicular Oocytes) in Smallmouth Bass from the Potomac River and Selected Nearby Drainages." *Journal of Aquatic Animal Health* **2007**, *19*(4):242-253; doi:10.1577/H07-031.1.

Bledzka D, Gryglik D, and Miller JS. "Photodegradation of butylparaben in aqueous solutions by 254 nm irradiation." *Journal of Photochemistry and Photobiology A: Chemistry* **2009**, *203*(2-3):131-136; doi:10.1016/j.jphotochem.2009.01.006.

Blenkharn JI. "Medical wastes management in the south of Brazil." *Waste Management* **2006**, *26*(3):315-317.

Blenkinsopp A and Bond CM. "The Potential and Pitfalls of Medicine Management: What Have We Learned So Far?" *Disease Management & Health Outcomes* **2008**, *16*(2):79-86.

Blitz JB and Norton SA. "Possible environmental effects of sunscreen run-off." *Journal of the American Academy of Dermatology* **2008**, *59*(5):898-898; doi:10.1016/j.jaad.2008.06.013.

Block DJ and Wosten IMAD. "Source and environmental fate of natural oestrogens." Vereniging Rivierwaterbedrijven RIWA, 2001001027, Amsterdam, The Netherlands, 2000, 51 pp; http://www.fao.org/agris/search/display.do?f=./2001/v2701/NL2001001027.xml;NL2001001027.

Blocksom K, Batt A, Lazorchak J, Osemwengie L, Delinsky A, Lindstrom A*, et al.* "National Rivers and Streams Assessment: Fish Tissue Contaminants." presented at 8th Annual Surface Water Monitoring and Standards (SWiMS) Meeting, US EPA, 10-12 February, at Chicago, IL, 2009; http://www.epa.gov/region5/water/wqb/presentations/Blocksom_Lazorchak.pdf, http://www.epa.gov/region5/water/wqb/swims.htm.

Bloom RA. "Use of veterinary pharmaceuticals in the United States." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 12, pp 149-154.

Bloom RA and Matheson JC, 3rd. "Environmental assessment of avermectins by the US Food and Drug Administration." *Veterinary Parasitology* **1993**, *48*(1-4):281-294; doi:10.1016/0304-4017(93)90163-H.

Bloomfield MS. "The spectrophotometric determination of hydroperoxide and peroxide in a lipid pharmaceutical product by flow injection analysis." *Analyst* **1999**, *124*(12):1865-1871; doi:10.1039/a906243b.

Bloomfield MS. "A sensitive and rapid assay for 4-aminophenol in paracetamol drug and tablet formulation, by flow injection analysis with spectrophotometric detection." *Talanta* **2002**, *58*(6):1301-1310; doi:10.1016/S0039-9140(02)00421-6.

Bloomfield SF. "Significance of biocide usage and antimicrobial resistance in domiciliary environments." *Journal of Applied Microbiology* **2002**, *92*(s1):144S-157S; doi:10.1046/j.1365-2672.92.5s1.15.x.

Blount BC, Silva MJ, Caudill SP, Needham LL, Pirkle JL, Sampson EJ*, et al.* "Levels of seven urinary phthalate metabolites in a human reference population." *Environmental Health Perspectives* **2000**, *108*(10):979-982; doi:10.2307/3435058.

Bludovska M, Kotyzova D, Koutensky J, and Eybl V. "The influence of alpha-lipoic acid on the toxicity of cadmium." *General Physiology and Biophysics* **1999**, *18*(October):28-32.

BlueInGreen LLC. "Disinfection and Decontamination Using the HyDOZ System." 2 pp; http://www.blueingreen.biz/HyDOZ_b/HyDOZ_b.pdf.

Blum LC and Reymond J-L. "970 Million Druglike Small Molecules for Virtual Screening in the Chemical Universe Database GDB-13." *Journal of the American Chemical Society* **2009**, *131*(25):8732; doi:10.1021/ja902302h.

Blumenthal D, DesRoches C, Donelan K, Ferris T, Jha A, Kaushal R*, et al.* "Health Information Technology in the United States: Where We Stand, 2008." Blumenthal D, DesRoches C and Foubister V, Eds., 2008, http://www.rwjf.org/files/research/3297.31831.hitreport.pdf.

Blutstein H. "Note from the field: A forgotten pioneer of sustainability." *Journal of Cleaner Production* **2003**, *11*(3):339-341; doi:10.1016/S0959-6526(02)00051-3.

Bo L, Urase T, and Wang X. "Biodegradation of trace pharmaceutical substances in wastewater by a membrane bioreactor." *Frontiers of Environmental Science & Engineering in China* **2009**, *3*(2):236-240; doi:10.1007/s11783-009-0004-9.

Boczek LA, Rice EW, Johnston B, and Johnson JR. "Occurrence of Antibiotic-Resistant Uropathogenic Escherichia coli Clonal Group A in Wastewater Effluents." *Applied and Environmental Microbiology* **2007**, *73*(13):4180-4184; doi:10.1128/aem.02225-06.

Bodík I, Gaspariková E, Dancová L, Kalina A, Hutnan M, and Drtil M. "Influence of disinfectants on domestic wastewater treatment plant performance." *Bioresource Technology* **2008**, *99*(3):532-539; doi:10.1016/j.biortech.2007.01.016.

Bodzek M and Dudziak M. "Elimination of steroidal sex hormones by conventional water treatment and membrane processes." *Desalination* **2006**, *198*(1-3):24-32; doi:10.1016/j.desal.2006.09.005.

Bodzek M and Dudziak M. "Removal of natural estrogens and synthetic compounds considered to be endocrine disrupting substances (EDs) by coagulation and nanofiltration." *Polish Journal of Environmental Studies* **2006**, *15*(1):35-40.

Boehmer W, Ruedel H, Wenzel A, and Schroeter-Kermani C. "Retrospective monitoring of triclosan and methyl-triclosan in fish: Results from the German Environmental Specimen Bank." *Organohalogen Compounds* **2004**, *66*:1516-1521.

Boehringer SK. "What's the Best Way to Dispose of Medications?" *Pharmacist's Letter/Prescriber's Letter* **2004**, *20*(4):200415.

Boertz J, Hartmann LM, Sulkowski M, Hippler J, Mosel F, Diaz-Bone RA*, et al.* "Determination of Trimethylbismuth in the Human Body after Ingestion of Colloidal Bismuth Subcitrate." *Drug Metabolism and Disposition: The Biological Fate of Chemicals* **2009**, *37*(2):352-358; doi:10.1124/dmd.107.020313.

Boethling RS, Lynch DG, Jaworska JS, Tunkel JL, Thom GC, and Webb S. "Using Biowin^{TM}, Bayes, and batteries to predict ready biodegradability." *Environmental Toxicology and Chemistry* **2004**, *23*(4):911-920; doi:10.1897/03-280.

Bogers R, De Vries-Buitenweg S, Geuijen I, van de Waart B, Kuiper R, Van Der Linden S*, et al.* "An in vitro/in vivo screening assay as a sensitive tool to assess endocrine disruptive activity in surface water." *Environment International* **2007**, *33*(3):292-301; doi:10.1016/j.envint.2006.10.002.

Bogers R, Mutsaerds E, Druke J, De Roode DF, Murk AJ, Van Der Burg B*, et al.* "Estrogenic endpoints in fish early life-stage tests: luciferase and vitellogenin induction in estrogen-responsive transgenic zebrafish." *Environmental Toxicology and Chemistry* **2006**, *25*(1):241-247; doi:10.1897/05-234R.1.

Bogner RH and Wilkosz MF. "Transdermal Drug Delivery. Part 2: Upcoming Developments." *US Pharmacist* **2003**, *28*(5).

Bohacek RS, McMartin C, and Guida WC. "The art and practice of structure-based drug design: A molecular modeling perspective." *Medicinal Research Reviews* **1996**, *16*(1):3-50; doi:10.1002/(SICI)1098-1128(199601)16:1<3::AID-MED1>3.0.CO;2-6.

Bohannon J. "Hard Data on Hard Drugs, Grabbed from the Environment: Fieldwork in new and fast-growing areas of epidemiology requires wads of cash and a familiarity with sewer lines." *Science* **2007**, *316*(5821):42-44; doi:10.1126/science.316.5821.42.

Böhmer W. "Occurrence of Polycyclic Musks in Sewage Sludge and their Behaviour in Soils and Plants. Part 2: Investigation of Polycyclic Musks in Soils and Plants (9 pp)." *Journal of Soils and Sediments* **2007**, *7*(1):36-44; doi:10.1065/jss2006.10.187.2.

Boillot C. "Évaluation des risques écotoxicologiques liés aux rejets d'effluents hospitaliers dans les milieux aquatiques. Contribution à l'amélioration de la phase "caractérisation des effets" [Ecotoxicological risk assessment related to hospital wastewater discharge into aquatic environments. Contribution to the improvement of the "characterization of effects" phase]." Doctoral Dissertation, L'Institut National des Sciences Appliquées de Lyon, 2008. 298 pp; http://tel.archives-ouvertes.fr/tel-00289514/en/.

Boillot C, Bazin C, Tissot-Guerraz F, Droguet J, Perraud M, Cetre JC*, et al.* "Daily physicochemical, microbiological and ecotoxicological fluctuations of a hospital effluent according to technical and care activities." *Science of the Total Environment* **2008**, *403*(1-3):113-129; doi:10.1016/j.scitotenv.2008.04.037.

Boivin M. "The cost of medication waste." *Canadian Pharmaceutical Journal* **1997**:32-39.

Boldescu V and Gladchi V. "Pătrunderea şi transformările chimice ale substantelor antibacteriene în mediul înconjurător." *Cercetări Ştiintifice* **2005**, *1*(18):10-14.

Boleas S, Alonso C, Pro J, Babín BM, Fernández C, Carbonell G*, et al.* "Effects of sulfachlorpyridazine in MS.3-arable land: a multispecies soil system for assessing the environmental fate and effects of veterinary medicines." *Environmental Toxicology and Chemistry* **2005**, *24*(4):811-819; doi:10.1897/04-139R.1.

Boleas S, Alonso C, Pro J, Fernández C, Carbonell G, and Tarazona JV. "Toxicity of the antimicrobial oxytetracycline to soil

organisms in a multi-species-soil system (MS·3) and influence of manure co-addition." *Journal of Hazardous Materials* **2005**, *122*(3):233-241.

Boleas S, Fernandez C, and Tarazona JV. "Toxicological and kinetic-study of musk xylene in rainbow-trout, oncorhynchus-mykiss." *Bulletin of Environmental Contamination and Toxicology* **1996**, *57*(2):217-222.

Boleda MR, Galceran MT, and Ventura F. "Trace determination of cannabinoids and opiates in wastewater and surface waters by ultra-performance liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2007**, *1175*(1):38-48; doi:10.1016/j.chroma.2007.10.029.

Boleda MR, Galceran MT, and Ventura F. "Monitoring of opiates, cannabinoids and their metabolites in wastewater, surface water and finished water in Catalonia, Spain." *Water Research* **2009**, *43*(4):1126-1136; doi:10.1016/j.watres.2008.11.056.

Bolelli L, Bobrovova Z, Ferri E, Fini F, Menotta S, Scandurra S*, et al.* "Bioluminescent bacteria assay of veterinary drugs in excreta of food-producing animals." *Journal of Pharmaceutical and Biomedical Analysis* **2006**, *42*(1):88-93; doi:10.1016/j.jpba.2005.12.034.

Bolong N, Ismail AF, Salim MR, and Matsuura T. "A review of the effects of emerging contaminants in wastewater and options for their removal." *Desalination* **2009**, *239*(1-3):229-246; doi:10.1016/j.desal.2008.03.020.

Bond AD. "What Is A Polymorph? Aspirin As A Case Study." *American Pharmaceutical Review* **2007**, (May/June).

Bones J, Macka M, and Paull B. "Evaluation of monolithic and sub 2 μm particle packed columns for the rapid screening for illicit drugs - application to the determination of drug contamination on Irish euro banknotes." *Analyst* **2007**, *132*(3):208-217; doi:1039/b615669j.

Bones J, Nesterenko P, Thomas K, and Paul B. "Dual gradient LC method for the determination of pharmaceutical residues in environmental samples using a monolithic silica reversed phase column." *International Journal of Environmental Analytical Chemistry* **2006**, *86*(7):487-504.

Bones J, Thomas K, Nesterenko PN, and Paull B. "On-line preconcentration of pharmaceutical residues from large volume water samples using short reversed-phase monolithic cartridges coupled to LC-UV-ESI-MS." *Talanta* **2006**, *70*(5):1117-1128; doi:10.1016/j.talanta.2006.02.026.

Bones J, Thomas KV, and Paull B. "Using environmental analytical data to estimate levels of community consumption of illicit drugs and abused pharmaceuticals." *Journal of Environmental Monitoring* **2007**, *9*(7):701-707; doi:10.1039/b702799k.

Bonn D. "Call made for application of drug-donation guidelines." *The Lancet* **1999**, *353*(9170):2131-2131; doi:10.1016/S0140-6736(99)00107-5.

Bonnineau C, Guasch H, Proia L, Ricart M, Geiszinger A, Romaní AM*, et al.* "Fluvial biofilms: a pertinent tool to assess [beta]-blockers toxicity." *Aquatic Toxicology* **2009**, *In Press*; doi:10.1016/j.aquatox.2009.10.024.

Bonot S, bastien, Courtois S, Quang ZD, Audic J-M, Block J-C*, et al.* "Tracking antibiotic resistance gene transfers in activated sludge reactors." *Proceedings of the Water Environment Federation* **2008**, *Session 101 through Session 115*(14):7524-7537; doi:10.2175/193864708788808870.

Boon PI. "Antibiotic Resistance of Aquatic Bacteria and Its Implications for Limnological Research." *Australian Journal of Marine and Freshwater Research* **1992**, *43*:847-859.

Boon PI and Cattanach M. "Antibiotic resistance of native and faecal bacteria isolated from rivers, reservoirs and sewage treatment facilities in Victoria, south-eastern Australia." *Letters in Applied Microbiology* **1999**, *28*(3):164-168; doi:10.1046/j.1365-2672.1999.00517.x.

Boonstra S. "Behaviour of Pharmaceutically Active Compounds in Contact with Reactive Media in Simulated Ground Water." Masters Dissertation, Uaniversity of Waterloo, Waterloo, Ontario, Canada, 2008. 175 pp; http://uwspace.uwaterloo.ca/bitstream/10012/3955/1/THESIS_SEPT_BOONSTRA.pdf.

Booth B. "In the mix: equine estrogens used in HRT." *Environmental Science & Technology* **2009**, *43*(10):3404; doi:10.1021/es900664y.

Boothby LA, Doering PL, and Hatton RC. "Carisoprodol: A Marginally Effective Skeletal Muscle Relaxant with Serious Abuse Potential." *Hospital Pharmacy* **2003**, *38*(4):337–345.

Boran M, Altinok I, Capkin E, Karacam H, and Bicer V. "Acute toxicity of carbaryl, methiocarb, and carbosulfan to the rainbow trout (Oncorhynchus mykiss) and guppy (Poecilia reticulata)." *Turkish Journal of Veterinary and Animal Sciences* **2007**, *31*(1):39-45.

Boreen AL. "Enhanced photolysis in natural waters: Naturally occurring sensitizers, substrates, and applications to the fate of acquatic pollutants." Doctoral Dissertation, University of Minnesota, Minneapolis/St. Paul, Minnesota, 2006. 263 pp; http://wwwlib.umi.com/dissertations/fullcit/3225715.

Boreen AL, Arnold WA, and McNeill K. "Photodegradation of pharmaceuticals in the aquatic environment: A review." *Aquatic Sciences* **2003**, *65*(4): 320-341.

Boreen AL, Arnold WA, and McNeill K. "Photochemical fate of pharmaceuticals in the environment: Sulfa drugs." presented at Minnesota Water 2004, 23 March, at Minneapolis, MN, 2003.

Boreen AL, Arnold WA, and McNeill K. "Photochemical Fate of Sulfa Drugs in the Aquatic Environment: Sulfa Drugs Containing Five-Membered Heterocyclic Groups." *Environmental Science & Technology* **2004**, *38*(14):3933-3940.

Boreen AL, Arnold WA, and McNeill K. "Triplet-Sensitized Photodegradation of Sulfa Drugs Containing Six-Membered Heterocyclic Groups: Identification of an SO2 Extrusion Photoproduct." *Environmental Science & Technology* **2005**, *39*(10):3630-3638.

Borgert CJ. "Predicting interactions from mechanistic information: Can omic data validate theories?" *Toxicology and Applied Pharmacology* **2007**, *223*(2):114-120; doi:10.1016/j.taap.2007.01.002.

Borgert CJ, Price B, Wells CS, and Simon GS. "Evaluating Chemical Interaction Studies for Mixture Risk Assessment." *Human and Ecological Risk Assessment* **2001**, *7*(2):259-306; doi:10.1080/20018091094376.

Borgert CJ, Quill TF, McCarty LS, and Mason AM. "Can mode of action predict mixture toxicity for risk assessment?" *Toxicology and Applied Pharmacology* **2004**, *201*(2):85-96; doi:10.1016/j.taap.2004.05.005.

Borgmann U, Bennie DT, Ball AL, and Palabrica V. "Effect of a mixture of seven pharmaceuticals on Hyalella azteca over multiple generations." *Chemosphere* **2007**, *66*(7):1278-1283; doi:10.1016/j.chemosphere.2006.07.025.

Borisy AA, Elliott PJ, Hurst N, W., MLee MS, Lehár J, Price ER*, et al.* "Systematic discovery of multicomponent therapeutics." *Proceedings of the National Academy of Sciences of the United States of America* **2003**, *100*(13):7977-7982; doi:10.1073/pnas.1337088100.

Borja A. "The European water framework directive: A challenge for nearshore, coastal and continental shelf research." *Continental Shelf Research* **2005**, *25*(14):1768-1783; doi:10.1016/j.csr.2005.05.004.

Börjesson S, Melin S, Matussek A, and Lindgren P-E. "A seasonal study of the mecA gene and Staphylococcus aureus including methicillin-resistant S. aureus in a municipal wastewater treatment plant." *Water Research* **2009**, *43*(4):925-932; doi:10.1016/j.watres.2008.11.036.

Borman S. "End run around FDA?" *Chemical & Engineering News* **1998**, *76*(22):45-47.

Borman S. "Multivalency: strength in numbers." *Chemical & Engineering News* **2000**, *78*(41):48-53.

Borman S. "In situ click chemistry: Templating strategy offers potential route to new drugs and other functional compounds." *Chemical & Engineering News* **2002**, *80*(6):29-34.

Born SL, Api AM, Ford RA, Lefever FR, and Hawkins DR. "Comparative metabolism and kinetics of coumarin in mice and rats." *Food and Chemical Toxicology* **2003**, *41*(2):247-258; doi:10.1016/S0278-6915(02)00227-2.

Boroski M, Rodrigues AC, Garcia JC, Sampaio LC, Nozaki J, and Hioka N. "Combined electrocoagulation and TiO2 photoassisted treatment applied to wastewater effluents from pharmaceutical and cosmetic industries." *Journal of Hazardous Materials* **2009**, *162*(1):448-454; doi:10.1016/j.jhazmat.2008.05.062.

Borremans M, Van Loco J, Roos P, and Goeyens L. "Validation of HPLC analysis of 2-phenoxyethanol, 1-phenoxypropan-2-ol, methyl, ethyl, propyl, butyl and benzyl 4-hydroxybenzoate (parabens) in cosmetic products, with emphasis on decision limit and detection capability." *Chromatographia* **2004**, *59*(1-2):47-53; doi:10.1365/s10337-003-0127-2.

Borski RJ. "Nongenomic Membrane Actions of Glucocorticoids in Vertebrates." *Trends in Endocrinology and Metabolism* **2000**, *11*(10):427-436; doi:10.1016/S1043-2760(00)00325-8.

Borst P, Evers R, Kool M, and Wijnholds J. "A Family of Drug Transporters: the Multidrug Resistance-Associated Proteins." *Journal of the National Cancer Institute* **2000**, *92*(16):1295-1302; doi:10.1093/jnci/92.16.1295.

Borsuk ME, Maurer M, Lienert J, and Larsen TA. "Charting a Path for Innovative Toilet Technology Using Multicriteria Decision Analysis." *Environmental Science & Technology* **2008**, *42*(6):1855-1862; doi:10.1021/es702184p.

Borzelleca JF and Boobis AR, Eds., "Toxicologic and Dermatologic Assessment of Cyclic and Non-Cyclic Terpene Alcohols." 2008, 11, 237 pp; http://www.rifm.org/doc/Assessmnt%20of%20Cyclc%20Non%20Cyclc%20Trpn%20Alcohols-Food%20&%20Chemcl%20Toxiclgy%20112008%20.pdf.

Bosch ME, Sánchez AJR, Rojas FS, and Ojeda CB. "Analytical methodologies for the determination of cisplatin." *Journal of Pharmaceutical and Biomedical Analysis* **2008**, *47*(3):451-459; doi:10.1016/j.jpba.2008.01.047.

Bosch X and Williams RJ. "Household antibiotic storage." *Science* **1998**, *281*(5378):783; doi:10.1126/science.281.5378.783h.

Bosker T, Munkittrick KR, and MacLatchy DL. "Challenges in current adult fish laboratory reproductive tests: suggestions for refinement using a mummichog (Fundulus heteroclitus) case study." *Environmental Toxicology and Chemistry* **2009**, *28*(11):2386-2396; doi:10.1897/09-032.1.

Bossio JP, Harry J, and Kinney CA. "Application of ultrasonic assisted extraction of chemically diverse organic compounds from soils and sediments." *Chemosphere* **2008**, *70*(5):858-864; doi:10.1016/j.chemosphere.2007.06.088.

Bosworth HB, Oddone EZ, and Weinberger M, Eds., "Patient Treatment Adherence Concepts, Interventions, and Measurement." Routledge, 2005, 582 pp; http://www.informaworld.com/smpp/title~content=t777347273~db=all.

Bothe F, Dettmer K, and Engewald W. "Determination of perfume oil in household products by headspace solid-phase microextraction and fast capillary gas chromatography." *Chromatographia* **2003**, *57*(Supplement 1):S199-S206; doi:10.1007/BF02492103.

Botitsi E, Frosyni C, and Tsipi D. "Determination of pharmaceuticals from different therapeutic classes in wastewaters by liquid chromatography-electrospray ionization-tandem mass spectrometry." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1317-1327; doi:10.1007/s00216-006-0804-8.

Bott CB, Duncan AJ, and Love NG. "Stress protein expression in domestic activated sludge in response to xenobiotic shock loading." *Water Science and Technology* **2001**, *43*(1):123-130.

Bott CB and Love NG. "The immunochemical detection of stress proteins in activated sludge exposed to toxic chemicals." *Water Research* **2001**, *35*(1):91-100; doi:10.1016/S0043-1354(00)00245-1.

Bottei EM, Gottsch SG, and Guinia PL. "Abstracts of the 2006 North American congress of clinical toxicology annual meeting. 31. Lack of uniform message about unwanted pharmaceutical disposal methods: Opportunity for education and outreach." *Clinical Toxicology* **2006**, *44*(5):639.

Bottoni P and Fidente R. "[A pilot study for the assessment of pharmaceuticals as water contaminants] Un primo contributo alla problematica dei farmaci come contaminanti delle acque." *Annali dell'Instituto Superiore di Sanita* **2005**, *41*(3):333-342.

Boucard T. "Environment Agency workshop on chronic aquatic ecotoxicity testing of human pharmaceuticals." Environment Agency, Bristol, England, May, 2006, http://publications.environment-agency.gov.uk/pdf/SCHO0506BKTJ-e-e.pdf.

Bouchard B, Gagné F, Fortier M, and Fournier M. "An in-situ study of the impacts of urban wastewater on the immune and reproductive systems of the freshwater mussel Elliptio complanata." *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* **2009**, *150*(2):132-140; doi:10.1016/j.cbpc.2009.04.002.

Boudou A and Ribeyre F. "Aquatic ecotoxicology: from the ecosystem to the cellular and molecular levels." *Environmental Health Perspectives* **1997**, *105*(Suppl 1):21-35.

Bound JP, Kitsou K, and Voulvoulis N. "Household disposal of pharmaceuticals and perception of risk to the environment." *Environmental Toxicology and Pharmacology* **2006**, *21*(3):301-307; doi:10.1016/j.etap.2005.09.006.

Bound JP and Voulvoulis N. "Pharmaceuticals in the aquatic environment - a comparison of risk assessment strategies." *Chemosphere* **2004**, *56*(11):1143-1155; doi:10.1016/j.chemosphere.2004.05.010.

Bound JP and Voulvoulis N. "Household disposal of pharmaceuticals as a pathway for aquatic contamination in the United Kingdom." *Environmental Health Perspectives* **2005**, *113*(12):1705-1711; doi:10.1289/ehp.8315.

Bound JP and Voulvoulis N. "Predicted and measured concentrations for selected pharmaceuticals in UK rivers: Implications for risk assessment." *Water Research* **2006**, *40*(15):2885-2892; doi:10.1016/j.watres.2006.05.036.

Bourgeois BF and Wad N. "Carbamazepine-10,11-diol steady-state serum levels and renal excretion during carbamazepine therapy in adults and children." *Therapeutic Drug Monitoring* **1984**, *6*(3):259-265.

Bouvy M, Coma A, and Marino EL. "European survey about unused drugs [This reference was found to be cited in the work of others but its accuracy could not be verified]." *Pharmacy World and Science* **2005**, *27*:A79.

Bouwer E. "Transformation of xenobiotics in biofilms." in *Structure and function of biofilms*, Characklis W and Wilderer P, Eds., John Wiley and Sons; New York, 1989, pp 251-267.

Bouwer H. "Integrated water management: emerging issues and challenges." *Agricultural Water Management* **2000**, *45*(3):217-228; doi:10.1016/S0378-3774(00)00092-5.

Bouwer H. "Integrated water management for the 21st century: Problems and solutions." *Journal of Irrigation and Drainage Engineering* **2002**, *128*(4):193-202; doi:10.1061/(ASCE)0733-9437(2002)128:4(193).

Bovet C, Ruff M, Wortmann A, Eiler S, Granger F, Gerrits B*, et al.* "Identification of endocrine-disrupting compounds using nanoelectrospray ionization mass spectrometry." *Chimia* **2008**, *62*(5):329-334; doi:10.2533/chimia.2008.329.

Bowden JA. "Novel analytical strategies for the characterization of steroids and endocrine disrupting compounds (EDCS) in biological and environmental samples." Doctoral Dissertation, University of Florida, Gainesville, FL, 2009. 208 pp.

Bowden JA, Colosi DM, Stutts WL, Mora-Montero DC, Garrett TJ, and Yost RA. "Enhanced Analysis of Steroids by Gas Chromatography/Mass Spectrometry using Microwave-Accelerated Derivatization." *Analytical Chemistry* **2009**, *81*(16):6725-6734; doi:10.1021/ac900663c.

Bowe L. "Investigating Emergent Contaminants: Pharmaceutical impacts and possible solutions." 2007, 80 pp; http://www.mass.gov/dep/toxics/stypes/ec_bowe.doc.

Boxall A. "Ecotoxicology of pharmaceuticals: making sense of the published literature Report of the WP4 Workshop; 28-31 January, 2008 Harrogate, UK." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 20 pp.

Boxall A, Backhaus T, Brooks B, Gouy D, Hickman S, Kidd K*, et al.* "Report on environmental impact and health effects of PPs." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 28 pp.

Boxall A, Crane M, Corsing C, and Eirkson C. "Uses and Inputs of Veterinary Medicines in the Environment." in *Veterinary Medicines in the Environment*, Crane M, Boxall A and Barrett K, Eds., SETAC Press; 2008, Chapter 2, pp 7-20; https://www.setac.net/setacssa/ecssashop.show_product_detail?p_product_serno=319&p_mode=detail&p_cust_id=&p_order_serno=&p_promo_cd=&p_price_cd=.

Boxall AB, Johnson P, Smith EJ, Sinclair CJ, Stutt E, and Levy LS. "Uptake of veterinary medicines from soils into plants." *Journal of Agricultural and Food Chemistry* **2006**, *54*(6):2288-2297; doi:10.1021/jf053041t.

Boxall ABA. "The environmental side effects of medication - How are human and veterinary medicines in soils and water bodies affecting human and environmental health?" *EMBO Reports* **2002**, *5*(12):1110-1116.

Boxall ABA. "Fate of Veterinary Medicines in the Environment." presented at SAFO (SustainingAnimal Health and Food Safety in Organic Farming) Workshop, 17-19 March, at Frick, Switzerland, 2005; http://www.safonetwork.org/workshops/ws4/present/boxall.pdf.

Boxall ABA. "Environmental Fate and Transformations of Veterinary Pharmaceuticals Fate and Transport of Veterinary Medicines in the Soil Environment." *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems* **2007**:123-138.

Boxall ABA. "Environmental side effects of medication." Slide Presentation, 2008; http://www.rss.org.uk/pdf/Environmental%20side%20effects%20of%20medication.pdf.

Boxall ABA. "Fate of veterinary medicines applied to soils." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kummerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 8, pp 103-119; doi:10.1007/978-3-540-74664-5_8; http://www.springerlink.com/content/h27483ml41762t3n/?p=d61cf5b1112b486ca60d73e23917da62&pi=7.

Boxall ABA. "Assessing environmental effects of human pharmaceuticals." *Toxicology Letters* **2009**, *189*(Supplement 1):S33-S33; doi:10.1016/j.toxlet.2009.06.065.

Boxall ABA, Ed., "Transformation products of synthetic chemicals in the environment." Springer, York, UK, 2009, 265 pp; http://www.springer.com/environment/environmental+chemistry/book/978-3-540-88272-5.

Boxall ABA, Blackwell P, Cavallo R, Kay P, and Tolls J. "The sorption and transport of a sulphonamide antibiotic in soil systems." *Toxicology Letters* **2002**, *131*(1-2):19-28; doi:10.1016/S0378-4274(02)00063-2.

Boxall ABA, Blackwell P, Cavallo R, Kay P, and Tolls J. "The Sorption and Transport of a Sulphonamide Antibiotic in Soil Systems." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp 37-50; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Boxall ABA, Fogg L, Blackwell PA, Kay P, and Pemberton EJ. "Review of Veterinary Medicines in the Environment." Environment Agency, 2002, 251 pp; http://publications.environment-agency.gov.uk/pdf/SP6-012-8-TR-e-p.pdf.

Boxall ABA, Fogg LA, Baird DJ, Lewis C, Telfer TC, Kolpin D*, et al.* "Targeted Monitoring Study for Veterinary Medicines in the Environment." Environment Agency, Bristol, England, 2006, http://publications.environmentagency.gov.uk/pdf/SCHO0806BLHH-e-e.pdf.

Boxall ABA, Fogg LA, Blackwell PA, Kay P, Pemberton EJ, and Croxford A. "Veterinary medicines in the environment." *Reviews of Environmental Contamination and Toxicology* **2004**, *180*:1-91.

Boxall ABA, Fogg LA, Kay P, Blackwell PA, Pemberton EJ, and Croxford A. "Prioritisation of veterinary medicines in the UK environment." *Toxicology Letters* **2003**, *142*(3):207-218; doi:10.1016/S0378-4274(03)00067-5.

Boxall ABA, Fogg LA, Kay P, Blackwell PA, Pemberton EJ, and Croxford A. "Prioritization of Veterinary Medicines in the UK Environment." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp 255-270; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Boxall ABA, Fogg LA, Pemberton EJ, Kolpin DW, and Baird DJ. "Prioritization, modeling and monitoring of veterinary medicines in the UK environment." *Abstracts of Papers - American Chemical Society* **2004**, *228*(1, Aug 22):U617-U617.

Boxall ABA, Kay P, Blackwell PA, and Fogg LA. "Fate of veterinary medicines applied to soils." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 14, pp 165-180.

Boxall ABA, Kolpin DW, Halling-Sorensen B, and Tolls J. "Are veterinary medicines causing environmental risks?" *Environmental Science & Technology* **2003**, *37*(15):286A-294A.

Boxall ABA and Long C. "Veterinary medicines and the environment." *Environmental Toxicology and Chemistry* **2005**, *24*(4):759-760.

Boxall ABA, Oakes D, Ripley P, and Watts CD. "The application of predictive models in the environmental risk assessment of ECONOR©." *Chemosphere* **2000**, *40*(7):775-781; doi:10.1016/S0045-6535(99)00452-X.

Boxall ABA, Sherratt TN, Pudner V, and Pope LJ. "A Screening Level Index for Assessing the Impacts of Veterinary Medicines on Dung Flies." *Environmental Science & Technology* **2007**, *41*(7):2630-2635; doi:10.1021/es0618705.

Boxall ABA, Sinclair CJ, Fenner K, Kolpin D, and Maud SJ. "When synthetic chemicals degrade in the environment." *Environmental Science & Technology* **2004**, *38*(19):368A-375A.

Boyd B, Bjork H, Billing J, Shimelis O, Axelsson S, Leonora M*, et al.* "Development of an improved method for trace analysis of chloramphenicol using molecularly imprinted polymers." *Journal of Chromatography A* **2007**, *1174*(1-2):63-71; doi:10.1016/j.chroma.2007.08.072.

Boyd GR and Grimm DA. "Occurrence of Pharmaceutical Contaminants and Screening of Treatment Alternatives for Southeastern Louisiana." *Annals of the New York Academy of Sciences* **2001**, *948*(1):80-89; doi:10.1111/j.1749-6632.2001.tb03989.x.

Boyd GR, Palmeri JM, Zhang SY, and Grimm DA. "Pharmaceuticals and personal care products (PPCPs) and endocrine disrupting chemicals (EDCs) in stormwater canals and Bayou St. John in New Orleans, Louisiana, USA." *Science of the Total Environment* **2004**, *333*(1/3):137-148.

Boyd GR, Reemtsma H, Grimm DA, and Mitra S. "Pharmaceuticals and personal care products (PPCPs) in surface and treated waters of Louisiana, USA and Ontario, Canada." *Science of the Total Environment* **2003**, *311*(1-3):135-149.

Boyd GR, Zhang S, and Grimm DA. "Naproxen removal from water by chlorination and biofilm processes." *Water Research* **2005**, *39*(4):668-676; doi:10.1016/j.watres.2004.11.013.

Boyd RA and Furlong ET. "Human-Health Pharmaceutical Compounds in Lake Mead, Nevada and Arizona, and Las Vegas Wash, Nevada, October 2000-August 2001." US Geological Survey, Carson City, NV, 2002, 24 pp; http://pubs.usgs.gov/of/2002/ofr02385/.

Brachet C, Vermeulen J, and Heinrichs C. "Children's virilization and the use of a testosterone gel by their fathers." *European Journal of Pediatrics* **2005**, *164*(10):646-647.

Brack W, Schmitt-Jansen M, Machala M, Brix R, Barceló D, Schymanski E*, et al.* "How to confirm identified toxicants in effect-directed analysis." *Analytical and Bioanalytical Chemistry* **2008**, *390*(8):1959-1973; doi:10.1007/s00216-007-1808-8.

Bradford SA, Segal E, Zheng W, Wang Q, and Hutchins SR. "Reuse of Concentrated Animal Feeding Operation Wastewater on Agricultural Lands." *Journal of Environmental Quality* **2008**, *37*(5 Supplement):S-97-115; doi:10.2134/jeq2007.0393.

Bradley P, Barber L, Kolpin D, McMahon P, and Chapelle F. "Potential for 4-n-nonylphenol biodegradation in stream sediments." *Environmental Toxicology and Chemistry* **2007**, *In press*(2007).

Bradley PM, Barber LB, Chapelle FH, Gray JL, Kolpin DW, and McMahon PB. "Biodegradation of 17β-estradiol, Estrone and Testosterone in Stream Sediments." *Environmental Science & Technology* **2009**, *43*(6):1902-1910; doi:10.1021/es802797j.

Bradley PM, Barber LB, Kolpin DW, McMahon PB, and Chapelle FH. "Biotransformation of caffeine, cotinine, and nicotine in stream sediments: implications for use as wastewater indicators." *Environmental Toxicology and Chemistry* **2007**, *26*(6):1116-1121.

Bradley TJ and Williams WH. "Evaluation of medicines returned in Manchester DUMP campaign." *The Pharmaceutical Journal* **1975**, *215*:542, 547.

Bradshaw P and Jarvis A. "Reissuing returned medicines to developing countries." *The Pharmaceutical Journal* **2004**, *273*(7332):514-515.

Brady KB. "Pharmaceutical Management Agency: Changes to the frequency of medicine dispensing." 20 May, 2005, 48 pp; http://www.oag.govt.nz/2005/pharmac/docs/pharmac.pdf.

Braeken L and Van der Bruggen B. "Feasibility of nanofiltration for the removal of endocrine disrupting compounds." *Desalination* **2009**, *240*(1-3):127-131; doi:10.1016/j.desal.2007.11.069.

Braga O, Smythe GA, Schafer AI, and Feitz AJ. "Steroid estrogens in ocean sediments." *Chemosphere* **2005**, *61*(6):827-833; doi:10.1016/j.chemosphere.2005.04.053.

Braga O, Smythe GA, Schäfer AI, and Feitz AJ. "Fate of steroid estrogens in Australian inland and coastal wastewater treatment plants." *Environmental Science & Technology* **2005**, *39*(9):3351-3358; doi:10.1021/es0501767.

Braga O, Smythe GA, Schafer AI, and Feltz AJ. "Steroid estrogens in primary and tertiary wastewater treatment plants." *Water Science and Technology* **2005**, *52*(8):273-278.

Brain RA. "Evaluation of the phytotoxic effects of pharmaceuticals in aquatic higher plants." Doctoral Dissertation, University of Guelph, Guelph, Ontario, Canada, 2006. 273 pp; http://wwwlib.umi.com/dissertations/fullcit/NR17760.

Brain RA, Bestari K, Sanderson H, Hanson ML, Wilson CJ, Johnson DJ*, et al.* "Aquatic microcosm assessment of the effects of tylosin on Lemna gibba and Myriophyllum spicatum." *Environmental Pollution* **2005**, *133*(3):389-401; doi:10.1016/j.envpol.2004.07.005.

Brain RA, Hanson ML, Solomon KR, and Brooks BW. "Aquatic Plants Exposed to Pharmaceuticals: Effects and Risks." in *Reviews of Environmental Contamination and Toxicology*, Springer; New York, NY, 2008, pp 67-115; doi:10.1007/978-0-387-71724-1_3; http://dx.doi.org/10.1007/978-0-387-71724-1_3.

Brain RA, Hanson ML, Solomon KR, and Brooks BW. "Targets, effects and risks in aquatic plants exposed to veterinary antibiotics." in *Veterinary pharmaceuticals in the environment*, Coats J and Henderson K, Eds., American Chemical Society; Washington, DC, 2009, ACS Symposium Series, pp.

Brain RA, Johnson DJ, Richards SM, Hanson ML, Sanderson H, Lam MW*, et al.* "Microcosm evaluation of the effects of an eight pharmaceutical mixture to the aquatic macrophytes Lemna gibba and Myriophyllum sibiricum." *Aquatic Toxicology* **2004**, *70*(1):23-40; doi:10.1016/j.aquatox.2004.06.011.

Brain RA, Johnson DJ, Richards SM, Sanderson H, Sibley PK, and Solomon KR. "Effects of 25 pharmaceutical compounds to Lemna gibba using a seven-day static-renewal test." *Environmental Toxicology and Chemistry* **2004**, *23*(2):371-382.

Brain RA, Ramirez AJ, Fulton BA, Chambliss CK, and Brooks BW. "Herbicidal Effects of Sulfamethoxazole in Lemna gibba: Using p-Aminobenzoic Acid As a Biomarker of Effect." *Environmental Science & Technology* **2008**, *42*(23):8965-8970; doi:10.1021/es801611a.

Brain RA, Reitsma TS, Lissemore LI, Bestari KJ, Sibley PK, and Solomon KR. "Herbicidal Effects of Statin Pharmaceuticals in Lemna gibba." *Environmental Science & Technology* **2006**, *40*(16):5116-5123.

Brain RA, Sanderson H, Sibley PK, and Solomon KR. "Probabilistic ecological hazard assessment: Evaluating pharmaceutical effects on aquatic higher plants as an example." *Ecotoxicology and Environmental Safety* **2006**, *64*(2):128-135; doi:10.1016/j.ecoenv.2005.08.007.

Brain RA, Wilson CJ, Johnson DJ, Sanderson H, Bestari K, Hanson ML*, et al.* "Effects of a mixture of tetracyclines to Lemna gibba and Myriophyllum sibiricum evaluated in aquatic microcosms." *Environmental Pollution* **2005**, *138*(3):425-442; doi:10.1016/j.envpol.2005.04.021.

Brambilla G, Civitareale C, and Migliore L. "Experimental toxicity and analysis of bacitracin, flumequine and sulphadimethoxine in terrestrial and aquatic organisms as a predictive model for ecosystems damage." *Quimica Analitica (Barcelona)* **1994**, *13*(1):S114-118.

Brambilla G, Patrizii M, De Filippis SP, Bonazzi G, Mantovi P, Barchi D*, et al.* "Oxytetracycline as environmental contaminant in arable lands." *Analytica Chimica Acta* **2007**, *586*(1-2):326-329; doi:10.1016/j.aca.2006.11.019.

Brandt KK, Sjøholm OR, Krogh KA, Halling-Sørensen B, and Nybroe O. "Increased Pollution-Induced Bacterial Community Tolerance to Sulfadiazine in Soil Hotspots Amended with Artificial Root Exudates." *Environmental Science & Technology* **2009**, *43*(8):2963-2968; doi:10.1021/es803546y.

Bratton KD, Lillquist AS, Williams TD, and Lunte CE. "The determination and quantification of human pharmaceuticals in aqueous environmental samples." in *ACS Symposium #850: Liquid Chromatography/Mass Spectrometry, MS/MS and time of flight MS: Analaysis of emerging contaminants*, Almagor UM, Ed., American Chemical Society; 2003, Chapter 12, pp 188-206; http://www.powells.com/biblio?isbn=9780841238251.

Brauch H-J. "Pharmaka und Hormone in der aquatischen Umwelt - Vorkommen von pharmaka und hormonen in grund-, oberflächenwässern und böden in Baden-württemberg [Medicines and hormones in the aquatic environment - Occurrence of medicines and hormones in basic, oberflächenwässern and grounds in Baden-Wuerttemberg]." National Institute for Environmental Protection Baden-Wuerttemberg, DVGW Technologiezentrum Water, Karlsruhe, Projekt-Nr. U33-00.01, 2002, 212 pp; http://www.xfaweb.baden-wuerttemberg.de/fofaweb/print/wb_u3300_01.pdf.

Braun P, Moeder M, Schrader S, Popp P, Kuschk P, and Engewald W. "Trace analysis of technical nonylphenol, bisphenol A and 17α-ethinylestradiol in wastewater using solid-phase microextraction and gas chromatography-mass spectrometry." *Journal of Chromatography A* **2003**, *988*(1):41-51; doi:10.1016/S0021-9673(02)02052-6.

Braund R, Chuah F, Gilbert R, Gn G, Soh A, Tan LY*, et al.* "Identification of the reasons for medication returns." *New Zealand Family Physician* **2008**, *35*:248-252.

Braund R, Peake BM, and Shieffelbien L. "Disposal practices for unused medications in New Zealand." *Environment International* **2009**, *35*(6):952-955; doi:10.1016/j.envint.2009.04.003.

Braund R, Yuen YC, and Jung J. "Identification and quantification of medication returned to Otago pharmacies." *New Zealand Family Physician* **2007**, *34*(4):258-262.

Bravo JC, Fernandez P, and Durand JS. "Flow injection fluorimetric determination of beta-estradiol using a molecularly imprinted polymer." *Analytical and Bioanalytical Chemistry* **2005**, *130*(10):1404-1409.

Braxton EJ. "Method and device for the disposal, recovery and recycling of pharmaceuticals from human wastes." **2001**, *U.S. Patent 6,317,900 B1*http://www.freepatentsonline.com/6317900.html.

Braybrook S, John DN, and Leong K. "A survey of why medicines are returned to pharmacies." *The Pharmaceutical Journal* **1999**, *263*(7063):R30.

Brazell C, Freeman A, and Mosteller M. "Maximizing the value of medicines by including pharmacogenetic research in drug development and surveillance." *British Journal of Clinical Pharmacology* **2002**, *53*(3):224-231; doi:10.1046/j.0306-5251.2001.01556.x.

Breitholtz M and Bengtsson B-E. "Ecotoxicology." in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 4, pp 54-69.

Breitholtz M and Bengtsson BE. "Oestrogens have no Hormonal Effect on the Development and Reproduction of the Harpacticoid Copepod Nitocra spinipes." *Marine Pollution Bulletin* **2001**, *42*(10):879-886; doi:10.1016/S0025-326X(01)00046-7.

Breitholtz M, Rudén C, Ove Hansson S, and Bengtsson B-E. "Ten challenges for improved ecotoxicological testing in environmental risk assessment." *Ecotoxicology and Environmental Safety* **2006**, *63*(2):324-335.

Breitholtz M, Wollenberger L, and Dinan L. "Effects of four synthetic musks on the life cycle of the harpacticoid copepod Nitocra spinipes." *Aquatic Toxicology* **2003**, *63*(2):103-118; doi:10.1016/S0166-445X(02)00159-5.

Brennan MB. "Drug discovery: Filtering out failures early in the game." *Chemical & Engineering News* **2000**, *78*(23):63-73.

Brennan MB. "Waterworks - Research accelerates on advanced water-treatment technologies as their use in purification grows." *Chemical & Engineering News* **2001**, *79*(15):32-38.

Breslow LH. "Best Pharmaceuticals for Children Act of 2002: The rise of the voluntary incentive structure and congressional refusal to require pediatric testing." *Harvard J Legislation* **2002**, *40*:133-192.

Breton R and Boxall ABA. "Pharmaceuticals and personal care products in the environment: Regulatory drivers and research needs." *QSAR & Combinatorial Science* **2003**, *22*(3):399-409; doi:10.1002/qsar.200390030.

Brian JV, Augley JJ, and Braithwaite VA. "Endocrine disrupting effects on the nesting behaviour of male threespined stickleback Gasterosteus aculeatus L." *Journal of Fish Biology* **2006**, *68*(6):1883-1890; doi:10.1111/j.0022-1112.2006.01053.x.

Brian JV, Beresford N, Walker J, Pojana G, Fantinati A, Marcomini A*, et al.* "Hypoxia Does Not Influence the Response of Fish to a Mixture of Estrogenic Chemicals." *Environmental Science & Technology* **2009**, *43*(1):214-218; doi:10.1021/es801999t.

Brian JV, Harris CA, Scholze M, Backhaus T, Booy P, Lamoree M*, et al.* "Accurate prediction of the response of freshwater fish to a mixture of estrogenic chemicals." *Environmental Health Perspectives* **2005**, *113*(6):721-728; doi:10.1289/ehp.7598.

Brian JV, Harris CA, Scholze M, Kortenkamp A, Booy P, Lamoree M*, et al.* "Evidence of estrogenic mixture effects on the reproductive performance of fish." *Environmental Science & Technology* **2007**, *41*(1):337-344; doi:10.1021/es0617439.

Brian JV and Sumpter JP. "National Report: Implications of Mixtures of Chemicals in Water: Implications of chemical legislation and environmental policy." *The Journal of Water Law* **2007**, *18*:62-65.

Briciu RD, Kot-Wasik A, and Namiesnik J. "Analytical Challenges and Recent Advances in the Determination of Estrogens in Water Environments." *Journal of Chromatographic Science* **2009**, *47*(2):127-139.

Bridges B. "Fragrances and Health." *Environmental Health Perspectives* **1999**, *107*(7):A340.

Bridges B. "Fragrance: emerging health and environmental concerns." *Flavour and Fragrance Journal* **2002**, *17*(5):361-371.

Brigante M, DellaGreca M, Previtera L, Rubino M, and Temussi F. "Degradation of hydrochlorothiazide in water." *Environmental Chemistry Letters* **2005**, *2*(4):195-198; doi:10.1007/s10311-004-0096-1.

Brij V, Richard DR, and Headley JV. "Effect of tetracycline on the colonization and growth of microbes on Scirpus lacustris litter in oligotrophic and eutrophic waters." *Aquatic Microbial Ecology* **2007**, *47*(1):91-98; doi:10.3354/ame047091.

Brillas E, Sires I, Arias C, Cabot PL, Centellas F, Rodriguez RM*, et al.* "Mineralization of paracetamol in aqueous medium by anodic oxidation with a boron-doped diamond electrode." *Chemosphere* **2005**, *58*(4):399-406; doi:10.1016/j.chemosphere.2004.09.028.

Brillas E, Sirés I, and Oturan MA. "Electro-Fenton Process and Related Electrochemical Technologies Based on Fenton's Reaction Chemistry." *Chemical Reviews* **2009**, *In press*; doi:10.1021/cr900136g.

Briner W and Papadopoulos FC. "Valproate enhances N-cadherin production in Xenopus embryos." *Neurotoxicology and Teratology* **2000**, *22*(5):761-764; doi:10.1016/S0892-0362(00)00086-6.

Bringolf R, Cope W, Eads C, Shea D, Heltsley RM, Fraely S*, et al.* "Reproductive effects of the pharmaceutical fluoxetine on native freshwater mussels." 2008; http://www.epa.gov/r5water/wqb/presentations/cope_08.pdf.

Bringolf RB, Cope WG, Eads C, Shea D, Heltsley RM, Fraley S*, et al.* "Endocrine and Reproductive Effects of the Pharmaceutical Fluoxetine on Native Freshwater Mussels: Proximity to Measured Environmental Concentrations." US Geological Survey, Survey UG, Ed., 2006NC61B, 2007, 8 pp; http://water.usgs.gov/wrri/06grants/progress/2006NC61B.pdf.

Bringolf RB and Summerfelt RC. "Reduction of estrogenic activity of municipal wastewater by aerated lagoon treatment facilities." *Environmental Toxicology and Chemistry* **2003**, *22*(1):77-83; doi:10.1897/1551-5028(2003)022<0077:ROEAOM>2.0.CO;2.

Brion F, Tyler CR, Palazzi X, Laillet B, Porcher JM, Garric J*, et al.* "Impacts of 17β-estradiol, including environmentally relevant concentrations, on reproduction after exposure during embryo-larval-, juvenile- and adult-life stages in zebrafish (Danio rerio)." *Aquatic Toxicology* **2004**, *68*(3):193-217; doi:10.1016/j.aquatox.2004.01.022.

Britvic S and Kurelec B. "The effect of inhibitors of multixenobiotic resistance mechanism on the production of mutagens by Dreissena polymorpha in waters spiked with premutagens." *Aquatic Toxicology* **1999**, *47*(2):107-116; doi:10.1016/S0166-445X(99)00011-9.

Brodeur JC, Woodburn KB, and Klecka GA. "Potentiation of the vitellogenic response to 17α-ethinylestradiol by cortisol in the fathead minnow Pimephales priomelas." *Environmental Toxicology and Chemistry* **2005**, *24*(5):1125-1132; doi:10.1897/04-309R.1.

Bronaugh RL, Yourick JJ, and Havery DC. "Dermal exposure assessment for the fragrance musk xylol." 1998, 56 pp.

Bronder E and Klimpel A. "Unused drugs returned to the pharmacy-new data." *International Journal of Clinical Pharmacology and Therapeutics* **2001**, *39*(11):480-483.

Bronstein AC, Spyker DA, Cantilena LRJ, Green J, Rumack BH, and Heard SE. "2006 Annual Report of the American Association of Poison Control Centers' National Poison Data System (NPDS)." *Clinical Toxicology* **2007**, *45*(8):815-917; doi:10.1080/15563650701754763.

Bronstein K. "Antibiotic occurrence and associated environmental hazard: A case study of a drinking water reservoir impacted by wastewater discharge." Masters Dissertation, The University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, 2008. 233 pp.

Brooks B, Riley T, and Taylor R. "Water Quality of Effluent-dominated Ecosystems: Ecotoxicological, Hydrological, and Management Considerations." *Hydrobiologia* **2006**, *556*(1):365-379; doi:10.1007/s10750-004-0189-7.

Brooks BW. "Ecotoxicological investigations in effluent-dominated stream mesocosms." Doctoral Dissertation, University of North Texas, Environmental Science, Dallas, TX, 2002. 161 pp; http://www.library.unt.edu/theses/open/20023/brooks_bryan/dissertation.pdf.

Brooks BW. "Emerging contaminants: antibiotics in aquatic and terrestrial ecosystems." in *Enclopedia of ecology*, Jorgensen SE, Ed., Elsevier; Oxford, UK, 2008, pp.

Brooks BW, Ankley G, Hobson J, Meyerhoff R, Lazorchak J, and Solomon K. "Aquatic hazard assessment of veterinary medicines." in *Veterinary pharmaceuticals in the environment*, Crane M, Barrett K and Boxall A, Eds., SETAC Press, Taylor and Francis; 2009, pp.

Brooks BW, Ankley GT, Hobson JF, Lazorchak JM, Meyerhoff RD, and Solomon KR. "Assessing the Aquatic Hazards of Veterinary Medicines." *Veterinary Medicines in the Environment* **2008**:97-153.

Brooks BW, Chambliss CK, Stanley JK, Ramirez A, Banks KE, Johnson RD*, et al.* "Determination of select antidepressants in fish from an effluent-dominated stream." *Environmental Toxicology and Chemistry* **2005**, *24*(2):464-469; doi:10.1897/04-081R.1.

Brooks BW, Foran CM, Peterson BN, Weston J, La Point TW, and Huggett DB. "Linkages between population demographics and municipal effluent estrogenicity." *Bulletin of Environmental Contamination and Toxicology* **2003**, *71*(3):504-511.

Brooks BW, Foran CM, Richards SM, Weston J, Turner PK, Stanley JK*, et al.* "Aquatic ecotoxicology of fluoxetine." *Toxicology Letters* **2003**, *142*(3):169-183; doi:10.1016/S0378-4274(03)00066-3.

Brooks BW, Huggett D, and Boxall A. "Pharmaceuticals and Personal Care Products: Research Needs for the Next Decade." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2469-2472; doi:10.1897/09-325.1.

Brooks BW and Huggett DB. "Human pharmaceuticals in the environment: current and future perspectives." Springer, 2008.

Brooks BW, Huggett DB, Brain RA, and Ankley G. "Risk assessment considerations for veterinary medicines in aquatic systems." in *Veterinary pharmaceuticals in the environment*, Coats J and Henderson K, Eds., American Chemical Society; Washington, DC, 2009, ACS Symposium Series, Chapter 14, pp.

Brooks BW, Richards SM, Weston J, Turner PK, Stanley JK, La Point TW*, et al.* "Aquatic ecotoxicology of fluoxetine: a review of recent research." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp 165-187; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Brooks BW, Turner PK, Stanley JK, Weston JJ, Glidewell EA, Foran CM*, et al.* "Waterborne and sediment toxicity of fluoxetine to select organisms." *Chemosphere* **2003**, *52*(1):135-142; doi:10.1016/S0045-6535(03)00103-6.

Brooks J. "Drug testing a growth industry in Salt Lake City." *Canadian Medical Association Journal* **2000**, *162*(6):854.

Brooks M. "The power of the placebo effect." *New Scientist* **2008**.

Brorson T, Bjorklund I, Svenstam G, and Lantz R. "Comparison of two strategies for assessing ecotoxicological aspects of complex wastewater from a chemical-pharmaceutical plant." *Environmental Toxicology and Chemistry* **1994**, *13*(4):543-552.

Brorström-Lundén E, Svenson A, Viktor T, Woldegiorgis A, Remberger M, Kaj L*, et al.* "Mesurements of sucralose in the swedish screening program 2007." Swedish Environmental Research Institute Ltd., ICL Report B1769, Stockholm, Sweden, January, 2008, 24 pp; http://www.naturvardsverket.se/upload/02_tillstandet_i_miljon/Milj%C3%B6gifter/sukralos_ivl_08.pdf.

Brosens JJ and Parker MG. "Gene expression: Oestrogen receptor hijacked." *Nature* **2003**, *423*:487-488; doi:10.1038/423487a.

Broséus R, Vincent S, Aboulfadl K, Daneshvar A, Sauvé S, Barbeau B*, et al.* "Ozone Oxidation of Pharmaceuticals, Endocrine Disruptors and Pesticides during Drinking Water Treatment." *Water Research* **2009**, *43*(18):4707-4717; doi:10.1016/j.watres.2009.07.031.

Brossa L, Marce RA, Borrull F, and Pocurull E. "Occurrence of twenty-six endocrine-disrupting compounds in environmental water samples from Catalonia, Spain." *Environmental Toxicology and Chemistry* **2005**, *24*(2):261-267; doi:10.1897/04-076R.1.

Brossa L, Marce RM, Borrull F, and Pocurull E. "Application of on-line solid-phase extraction-gas chromatography-mass spectrometry to the determination of endocrine disruptors in water samples." *Journal of Chromatography A* **2002**, *963*(1-2):287-294.

Brouet A, Sonveaux P, Dessy C, Moniotte S, Balligand J-L, and Feron O. "Hsp90 and Caveolin Are Key Targets for the Proangiogenic Nitric Oxide-Mediated Effects of Statins." *Circulation Research* **2001**, *89*(10):866-873; doi:10.1161/hh2201.100319.

Brown AR, Riddle AM, Cunningham NL, Kedwards TJ, Shillabeer N, and Hutchinson TH. "Predicting the effects of endocrine

disrupting chemicals on fish populations." *Human and Ecological Risk Assessment* **2003**, *9*(3):761-788; doi:10.1080/10807030319876934.

Brown AR, Riddle AM, Winfield IJ, Fletcher JM, and James JB. "Predicting the effects of endocrine disrupting chemicals on healthy and disease impacted populations of perch (perca fluviatilis)." *Ecological Modelling* **2005**, *189*(3-4):377-395; doi:10.1016/j.ecolmodel.2005.03.009.

Brown C. "An evaluation of the potention for behavioural change in the purchase, use and disposal of domestic cleaning and other products into the wastewater system." Masters Dissertation, Cranfield University, School of Applied Sciences, 2007. 43 pp; http://64.233.167.104/search?q=cache:CL9TysFO8ZAJ:https://dspace.lib.cranfield.ac.uk/bitstream/1826/2511/1/Brown-2007.pdf+daughton+disposal&hl=en&ct=clnk&cd=88&gl=us.

Brown DC, Bradley BP, and Tedengren M. "Genetic and environmental regulation of HSP70 expression." *Marine Environmental Research* **1995**, *39*(1-4):181-184; doi:10.1016/0141-1136(94)00014-G.

Brown JB, Battaglin WA, and Zuellig RE. "Lagrangian Sampling for Emerging Contaminants Through an Urban Stream Corridor in Colorado¹." *JAWRA Journal of the American Water Resources Association* **2009**, *45*(1):68-82; doi:10.1111/j.1752-1688.2008.00290.x.

Brown JN, Paxeus N, Forlin L, and Larsson DGJ. "Variations in bioconcentration of human pharmaceuticals from sewage effluents into fish blood plasma." *Environmental Toxicology and Pharmacology* **2007**, *24*(3):267-274; doi:10.1016/j.etap.2007.06.005.

Brown KD. "Pharmaceutically Active Compounds in Residential and Hospital Effluent, Municipal Wastewater, and the Rio Grande in Albuquerque, New Mexico." The University of New Mexico, Albuquerque, NM, January, 2004, 62 pp; http://www.unm.edu/~wrp/wrp-9.pdf.

Brown KD, Kulis J, Thomson B, Chapman TH, and Mawhinney DB. "Occurrence of antibiotics in hospital, residential, and dairy effluent, municipal wastewater, and the Rio Grande in New Mexico." *Science of the Total Environment* **2006**, *366*(2-3):772-783; doi:10.1016/j.scitotenv.2005.10.007.

Brown KH, Schultz IR, Cloud JG, and Nagler JJ. "Aneuploid sperm formation in rainbow trout exposed to the environmental estrogen 17α-ethynylestradiol." *Proceedings of the National Academy of Sciences* **2008**, *105*(50):19786-19791; doi:10.1073/pnas.0808333105.

Brown KH, Schultz IR, and Nagler JJ. "Reduced embryonic survival in rainbow trout resulting from paternal exposure to the environmental estrogen 17α-ethynylestradiol during late sexual maturation." *Reproduction* **2007**, *134*(5):659-666; doi:10.1530/REP-07-0169.

Brown KH, Schultz IR, and Nagler JJ. "Lack of a heritable reproductive defect in the offspring of male rainbow trout exposed to the environmental estrogen 17α-ethynylestradiol." *Aquatic Toxicology* **2009**, *91*(1):71-74; doi:10.1016/j.aquatox.2008.10.009.

Brown KW, Schrab GE, and Donnelly KC. "Acute and genetic toxicity of municipal landfill leachate." Texas Water Resources Institute, Texas A&M University, October, 1991, 98 pp; http://hdl.handle.net/1969.1/6182.

Brown L, Braven J, and Rhead MM. "Method and apparatus for monitoring sewage treatment efficiency and determining sewage sources." **1985**, *US Patent No 4,554,077*(06/528,105) http://patft.uspto.gov/netacgi/nph-Parser?Sect2=PTO1&Sect2=HITOFF&p=1&u=%2Fnetahtml%2FPTO%2Fsearch-bool.html&r=1&f=G&l=50&d=PALL&RefSrch=yes&Query=PN%2F4554077.

Brown M, Robinson C, Davies IM, Moffat CF, Redshaw J, and Craft JA. "Temporal changes in gene expression in the liver of male plaice (Pleuronectes platessa) in response to exposure to ethynyl oestradiol analysed by macroarray and Real-Time PCR." *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis* **2004**, *552*(1-2):35-49; doi:10.1016/j.mrfmmm.2004.06.002.

Brown N and Ijaz T. "Balancing Indirect Potable Reuse and Public Health Concerns." *Proceedings of the Water Environment Federation* **2008**, *2008*:5729-5744; doi:10.2175/193864708788807240.

Brown RJ, Rundle SD, Hutchinson TH, Williams TD, and Jones MB. "A copepod life-cycle test and growth model for interpreting the effects of lindane." *Aquatic Toxicology* **2003**, *63*(1):1-11; doi:10.1016/S0166-445X(02)00120-0.

Brown SB, Adams BA, Cyr DG, and Eales JG. "Contaminant effects on the teleost fish thyroid." *Environmental Toxicology and Chemistry* **2004**, *23*(7):1680-1701.

Brown VJ. "Fe-TAMLs - Catalyst for cleanup." *Environmental Health Perspectives* **2006**, *114*(11):A656-A659.

Brownawell BJ and Iden CR. "Occurrence and Fate of Pharmaceuticals and Personal Care Products in Groundwater Environments." USEPA, EPA Grant Number: R829007, State University of New York at Stony Brook, 2001-2005. http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/1063/report/0.

Broyles M, Broyles VP, and Meritt Y. "Utilization of Unused Prescriptions Medication Act." *The Journal of the Oklahoma State Medical Association* **2007**, *100*(3):82-84.

Bruchet A, Hochereau C, Picard C, Decottignies V, Rodrigues JM, and Janex-Habibi ML. "Analysis of drugs and personal care products in French source and drinking waters: the analytical challenge and examples of application." *Water Science and Technology* **2005**, *52*(8):53-61.

Bruchet A, Prompsy C, Fillippi G, and Souali A. "A broad spectrum analytical scheme for the screening of endocrine disruptors (EDs), pharmaceuticals and personal care products in wastewaters and natural waters." *Water Science and Technology* **2002**, *46*(3):97-104.

Brucker-Davis F, Thayer K, and Colborn T. "Significant effects of mild endogenous hormonal changes in humans: considerations for low-dose testing." *Environmental Health Perspectives* **2001**, *109 Suppl 1*:21-26.

Brückner-Nieder U, Frimmel FH, Hüttig J, and Kümmerer K. "Verhalten von Arzneimitteln in der Wasseraufbereitung: Untersuchungen zur Elimination von Fluorchinolonen und platinhaltigen Zystostatika [Behavior of Drugs in the water purification: Investigations for elimination of fluoroquinolones and platinum Zystostatika]." *Vom Wasser* **2003**, *100*:155-168.

Brumley WCV, Katrina E. and Riddick LA. "Partial Characterization Of Biosolids: Lipophilic Organic Components." *Environmental Science: An Indian Journal* **2008**, *3*:3.

Brun EM, Bonet E, Puchades R, and Maquieira A. "Selective Enzyme-Linked Immunosorbent Assay for Triclosan. Application to Wastewater Treatment Plant Effluents." *Environmental Science & Technology* **2008**, *42*(5):1665-1672.

Brun GL, Bernier M, Losier R, eacute, Doe K, Jackman P*, et al.* "Pharmaceutically active compounds in Atlantic Canadian sewage treatment plant effluents and receiving waters, and potential for environmental effects as measured by acute and chronic aquatic toxicity." *Environmental Toxicology and Chemistry* **2006**, *25*(8):2163-2176; doi:10.1897/05-426R.1.

Brunn H, Bitsch N, and Amberg-Műller J. "Toxicology of synthetic musk compounds in man and animals." in *Synthetic Musk Fragrances in the Environment*, Rimkus GG, Ed., Springer-Verlag; Heidelberg, 2004, pp 259-280.

Brunn H and Rimkus G. "Synthetic musk compounds - Application, environmental accumulation, and toxicology .2. Toxicology and conclusions." *Ernahrungs-Unschau* **1997**, *44*(1):4.

Brunner C, Baumann U, Pletscher E, and Eugster M. "Total degradation or environmental experiment?" *Tenside Surfactants Detergents* **2000**, *37*(5):276-280.

Bruno F, Curini R, Di Corcia A, Nazzari M, and Samperi R. "Method development for measuring trace levels of penicillins in aqueous environmental samples." *Rapid Communications in Mass Spectrometry* **2001**, *15*(16):1391-1400; doi:10.1002/rcm.381.

Brusick DJ. "A perspective on testing of existing pharmaceutical excipients for genotoxic impurities." *Regulatory Toxicology and Pharmacology* **2009**, *55*(2):200-204; doi:10.1016/j.yrtph.2009.07.006.

Bruun MS, Schmidt AS, Dalsgaard I, and Larsen JL. "Conjugal Transfer of Large Plasmids Conferring Oxytetracycline (OTC) Resistance: Transfer between Environmental Aeromonads, Fish-Pathogenic Bacteria, and Escherichia coli." *Journal of Aquatic Animal Health* **2003**, *15*(1):69-79; doi:10.1577/1548-8667(2003)015<0069:CTOLPC>2.0.CO;2.

Buchberger W. "Pharmaceutical residues in water - where do we stand today?" *Nachrichten Aus Chemie* **2006**, *54*(6):673-675.

Buchberger WW. "Novel analytical procedures for screening of drug residues in water, waste water, sediment and sludge." *Analytica Chimica Acta* **2007**, *593*(2):129-139; doi:10.1016/j.aca.2007.05.006.

Buchner J. "Hsp90 & Co. - a holding for folding." *Trends in Biochemical Sciences* **1999**, *24*(4):136-141; doi:10.1016/S0968-0004(99)01373-0.

Buckley DA. "Fragrance ingredient labelling in products on sale in the U.K." *British Journal of Dermatology* **2007**, *157*(2):295-300; doi:10.1111/j.1365-2133.2007.08018.x.

Budzinski H, Devier MH, Labadie P, and Togola A. "Analysis of hormonal steroids in fish plasma and bile by coupling solid-phase extraction to GC/MS." *Analytical and Bioanalytical Chemistry* **2006**, *386*(5):1429-1439; doi:10.1007/s00216-006-0686-9.

Budzinski H and Togola A. "Drug residues in compartments of the aquatic environment." *Environment, Risques & Sante* **2006**, *5*(4):248-253.

Buerge IJ, Buser HR, Poiger T, and Muller MD. "Occurrence and Fate of the Cytostatic Drugs Cyclophosphamide and Ifosfamide in Wastewater and Surface Waters." *Environmental Science & Technology* **2006**, *40*(23):7242-7250.

Buerge IJ, Buser H-R, Kahle M, Műller MD, and Poiger T. "Ubiquitous Occurrence of the Artificial Sweetener Acesulfame in the Aquatic Environment: An Ideal Chemical Marker of Domestic Wastewater in Groundwater." *Environmental Science & Technology* **2009**, *43*(12):4381-4385; doi:10.1021/es900126x.

Buerge IJ, Buser H-R, Muller MD, and Poiger T. "Behavior of the polycyclic musks HHCB and AHTN in lakes, two potential anthropogenic markers for domestic wastewater in surface waters." *Environmental Science & Technology* **2003**, *37*(24):5636-5644; doi:10.1021/es0300721.

Buerge IJ, Buser H-R, Poiger T, and Müller MD. "Vorkommen und Umweltverhalten von Oxazaphosphorin-Cytostatika in Abwasserreinigungsanlagen und Oberflächengewässern [Occurrence and environmental behavior of Oxazaphosphorin Cytostatika waste water treatment units and surface waters]." FAW Wädenswil, Wädenswil, Germany, June, 2005, 71 pp; http://www.db-acw.admin.ch/pubs/wa_pv_05_pub_1892_d.pdf.

Buerge IJ, Kahle M, Buser H-R, Müller MD, and Poiger T. "Nicotine Derivatives in Wastewater and Surface Waters: Application as Chemical Markers for Domestic Wastewater." *Environmental Science & Technology* **2008**, *42*(17):6354-6360.

Buerge IJ, Poiger T, Muller MD, and Buser HR. "Combined Sewer Overflows to Surface Waters Detected by the Anthropogenic Marker Caffeine." *Environmental Science & Technology* **2006**, *40*(13):4096-4102.

Buerge IJ, Poiger T, Müller MD, and H-R. B. "Caffeine, an anthropogenic marker for wastewater contamination of surface waters." *Environmental Science & Technology* **2003**, *37*(4):691-700; doi:10.1021/es020125z.

Buffle M-O, Schumacher J, Salhi E, Jekel M, and von Gunten U. "Measurement of the initial phase of ozone decomposition in water and wastewater by means of a continuous quench-flow system: Application to disinfection and pharmaceutical oxidation." *Water Research* **2006**, *40*(9):1884-1894; doi:10.1016/j.watres.2006.02.026.

Buhler DR and Rasmusson ME. "The oxidation of drugs by fishes." *Comparative Biochemistry and Physiology* **1968**, *25*(1):223-239.

Bui TX and Choi H. "Adsorptive Removal of Selected Pharmaceuticals by Mesoporous Silica SBA-15." *Journal of Hazardous Materials* **2009**, *168*(2-3):602-608; doi:10.1016/j.jhazmat.2009.02.072.

Buitrón G, Melgoza RM, and Jiménez L. "Pharmaceutical Wastewater Treatment Using an Anaerobic/Aerobic Sequencing Batch Biofilter." *Journal of Environmental Science & Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2003**, *38*(10):2077.

Bull D, Ivie G, MacConnell J, Gruber V, Ku C, Arison B*, et al.* "Fate of avermectin B1a in soil and plants." *Journal of Agricultural and Food Chemistry* **1984**, *32*(1):94-102.

Bundschuh M, Hahn T, Gessner MO, and Schulz R. "Antibiotics as a chemical stressor affecting an aquatic decomposer–detritivore system." *Environmental Toxicology and Chemistry* **2009**, *28*(1):197-203; doi:10.1897/08-075.1.

Bundy MM. "Design and test of a bench scale drinking water treatment plant for the evaluation of pharmaceutical fate." Masters Dissertation, Utah State University, Salt Lake City, Utah, 2003. 116 pp.

Bundy MM, Doucette WJ, McNeill L, and Ericson JF. "Removal of pharmaceuticals and related compounds by a bench-scale drinking water treatment system." *Journal of Water Supply: Research and Technology* **2007**, *56*(2):105-115; doi:10.2166/aqua.2007.091.

Buntner D. "Report of the limitations of conventional treatment processes of the most resistant PPs and new development." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 70 pp; http://www.knappe-eu.org/fichiers/45-Knappe%20D2.1%20Report%20of%20the%20limitations%20of%20conventional%20treatment%20processes....pdf.

Burba P, Geltenpoth H, and Nolte J. "Ultrafiltration behavior of selected pharmaceuticals on natural and synthetic membranes in the presence of humic-rich hydrocolloids." *Analytical and Bioanalytical Chemistry* **2005**, *382*(8):1934-1941; doi:10.1007/s00216-005-3296-z.

Burgess C. "Estrogens in coastal waters. The sewage source." *Environmental Health Perspectives* **2003**, *111*(4):A232.

Burhenne J, Ludwig M, and Spiteller M. "Photolytic degradation of fluoroquinolone carboxylic acids in aqueous solution: Part II: Isolation and structural elucidation of polar photometabolites." *Environmental Science and Pollution Research* **1997**, *4*(2):61-67; doi:10.1007/BF02986278.

Burhenne J, Ludwig M, and Spiteller M. "Polar photodegradation products of quinolones determined by HPLC/MS/MS." *Chemosphere* **1999**, *38*(6):1279-1286; doi:10.1016/S0045-6535(98)00525-6.

Burka JF, Hammell KL, Horsbert TE, Johnson GR, Rainnie DJ, and Spear DJ. "Drugs in salmonid aquaculture - A review." *Journal of Veterinary Pharmacology and Therapeutics* **1997**, *20*(5):333-349; doi:10.1046/j.1365-2885.1997.00094.x.

Burke K. "Nanotech widespread in cosmetics, report finds." The Sydney Morning Herald, 2009, http://www.smh.com.au/lifestyle/wellbeing/nanotech-widespread-in-cosmetics-report-finds-20091123-iz8n.html.

Burke M and Smith C. "Waste Watch: A model for managing discarded pharmaceuticals." 7 March, 2006, 5 pp; http://www.hfmmagazine.com/hfmmagazine_app/hospitalconnect/search/article.jsp?dcrpath=HFMMAGAZINE/PubsNewsArticleGen/data/2006March/0603HFM_DEPT_EnvirSer&domain=HFMMAGAZINE.

Burke SL, Malpas SC, and Head GA. "Effect of rilmenidine on the cardiovascular responses to stress in the conscious rabbit." *Journal of the Autonomic Nervous System* **1998**, *72*(2-3):177-186; doi:10.1016/S0165-1838(98)00103-9.

Burkhardt M and Stamm C. "Depth distribution of sulfonamide antibiotics in pore water of an undisturbed loamy grassland soil." *Journal of Environmental Quality* **2007**, *36*(2):588-596; doi:10.2134/jeq2006.0358.

Burkhardt M, Stamm C, Waul C, Singer H, and Muller S. "Surface runoff and transport of sulfonamide antibiotics and tracers on manured grassland." *Journal of Environmental Quality* **2005**, *34*(4):1363-1371; doi:10.2134/jeq2004.0261.

Burkhardt MR, Zaugg SD, Burbank TL, Olson MC, and Iverson JL. "Pressurized liquid extraction using water/isopropanol coupled with solid-phase extraction cleanup for semivolatile organic compounds, polycyclic aromatic hydrocarbons (PAH), and alkylated PAH homolog groups in sediment." *Analytica Chimica Acta* **2005**, *549*(1-2):104-116; doi:10.1016/j.aca.2005.06.032.

Burkhardt-Holm P, Segner H, Burki R, Peter A, Schubert S, Suter M*, et al.* "Estrogenic endocrine disruption in Switzerland: Assessment of fish exposure and effects." *Chimia* **2008**, *62*(5):376-382; doi:10.2533/chimia.2008.376.

Burkholder J, Libra B, Weyer P, Heathcote S, Kolpin D, Thorne PS*, et al.* "Impacts of waste from concentrated animal feeding operations on water quality." *Environmental Health Perspectives* **2007**, *115*(2):308-312; doi:10.1289/ehp.8839.

Burleson ML and Milsom WK. "Propranolol inhibits O2-sensitive chemoreceptor activity in trout gills." *American Journal of Physiology - Regulatory, Integrative and Comparative Physiology* **1990**, *258*(4):R1089-1091.

Burnat P, Robles F, and Do B. "High-performance liquid chromatographic determination of modafinil and its two metabolites in human plasma using solid-phase extraction." *Journal of Chromatography B: Biomedical Sciences and Applications* **1998**, *706*(2):295-304; doi:10.1016/S0378-4347(97)00550-1.

Burnison BK, Hartmann A, Lister A, Servos MR, Ternes T, and Van Der Kraak GJ. "A toxicity identification evaluation approach to studying estrogenic substances in hog manure and agricultural runoff." *Environmental Toxicology and Chemistry* **2003**, *222*(10):2243-2250; doi:10.1897/02-437.

Burnison K, Servos M, Lorenzen A, and Topp E. "Persistence of endocrine-disrupting chemicals in agricultural soils." *Journal of Environmental Engineering and Science* **2006**, *5*(3):211-219; doi:10.1139/S05-016.

Burns M and Baselt RC. "Monitoring drug use with a sweat patch: an experiment with cocaine." *Journal of Analytical Toxicology* **1995**, *19*(1):41-48.

Bursch W, Fuerhacker M, Gemeiner M, Grillitsch B, Jungbauer A, Kreuzinger N*, et al.* "Endocrine disrupters in the aquatic environment: the Austrian approach – ARCEM." *Water Science and Technology* **2004**, *50*(5):293-300.

Burt A, Annest J, Ballesteros M, and Budnitz D. "Nonfatal, Unintentional Medication Exposures Among Young Children--United States, 2001-2003." *The Journal of the American Medical Association* **2006**, *295*(8):882-884; doi:10.1001/jama.295.8.882.

Burton A. "Pharmaceuticals: A Headache for Water Treatment." *Environmental Health Perspectives* **2006**, *114*(5):A278.

Buschini A, Giordani F, Pellacani C, Rossi C, and Poli P. "Cytotoxic and genotoxic potential of drinking water: A comparison between two different concentration methods." *Water Research* **2008**, *42*(8-9):1999-2006; doi:10.1016/j.watres.2007.12.005.

Buser HR, Muller MD, and Theobald N. "Occurrence of the pharmaceutical drug clofibric acid and the herbicide mecoprop in various Swiss lakes and in the North Sea." *Environmental Science & Technology* **1998**, *32*(1):188-192.

Buser HR, Poiger T, and Muller MD. "Occurrence and Environmental Behavior of the Chiral Pharmaceutical Drug Ibuprofen in Surface Waters and in Wastewater." *Environmental Science & Technology* **1999**, *33*(15):2529-2535.

Buser H-R, Balmer ME, Schmid P, and Kohler M. "Occurrence of UV filters 4-methylbenzylidene camphor and octocrylene in fish from various Swiss rivers with inputs from wastewater treatment plants." *Environmental Science & Technology* **2006**, *40*(5):1427-1431; doi:10.1021/es052088s.

Buser H-R, Müller MD, Balmer ME, Poiger T, and Buerge IJ. "Stereoisomer composition of the chiral UV filter 4-methylbenzylidene camphor in environmental samples." *Environmental Science & Technology* **2005**, *39*(9):3013-3019; doi:10.1021/es048265r.

Buser H-R, Poiger T, and Muller MD. "Occurrence and fate of the pharmaceutical drug diclofenac in surface waters: Rapid photodegradation in a lake." *Environmental Science & Technology* **1998**, *32*(22):3449-3456; doi:10.1021/es980301x.

Busetti F, Linge KL, Blythe JW, and Heitz A. "Rapid analysis of iodinated x-ray contrast media in secondary, tertiary treated wastewater by direct injection liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2008**, *1213*(2):200-208; doi:10.1016/j.chroma.2008.10.021.

Busetti F, Linge KL, and Heitz A. "Analysis of pharmaceuticals in indirect potable reuse systems using solid-phase extraction and liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(31):5807-5818; doi:10.1016/j.chroma.2009.06.001.

Bustillos D. "Destroying Unused, Unopened Prescription Drugs at Taxpayer Expense: An Update." University of Houston - Law Center, Houston, TX, August, 2005, 2 pp; http://www.law.uh.edu/healthlaw/perspectives/August2005/(DB)DrugDestruction.pdf.

Buszka P, Yeskis D, Kolpin D, Furlong E, Zaugg S, and Meyer M. "Waste-Indicator and Pharmaceutical Compounds in Landfill-Leachate-Affected Ground Water near Elkhart, Indiana, 2000–2002." *Bulletin of Environmental Contamination and Toxicology* **2009**, *82*(6):653-659; doi:10.1007/s00128-009-9702-z.

Buth JM, Arnold WA, and McNeill K. "Unexpected Products and Reaction Mechanisms of the Aqueous Chlorination of Cimetidine." *Environmental Science & Technology* **2007**, *41*(17):6228-6233.

Buth JM, Grandbois M, Vikesland PJ, McNeill K, and Arnold WA. "Aquatic photochemistry of chlorinated triclosan derivatives: potential source of polychlorodibenzo-p-dioxins." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2555-2563; doi:10.1897/08-490.1.

Butler DM, Allen KM, Garrett FE, Lauzon LL, Lotfizadeh A, and Koch RA. "Release of Ca^{2+} from Intracellular Stores and Entry of Extracellular Ca^{2+} Are Involved in Sea Squirt Sperm Activation." *Developmental Biology* **1999**, *215*(2):453-464; doi:10.1006/dbio.1999.9458.

Butler MN and Weber JWJ. "Accelerated transformation and deactivation of erythromycin in superheated water. 2. Transformation reactions and bioassays." *Environmental Science & Technology* **2005**, *39*(7):2301-2306; doi:10.1021/es049397n.

Butler MN and Weber WJ. "Accelerated Transformation and Deactivation of Erythromycin in Superheated Water. 1. Temperature Effects, Transformation Rates, and the Impacts of Dissolved Organic Matter." *Environmental Science & Technology* **2005**, *39*(7):2294-2300.

Butte W. "Synthetic musks in house dust." in *Synthetic Musk Fragrances in the Environment*, Rimkus GG, Ed., Springer-Verlag; Heidelberg, 2004, pp 105-121.

Butte W, Schmidt S, and Schmidt A. "Photochemical degradation of nitrated musk compounds." *Chemosphere* **1999**, *38*(6):1287-1291; doi:10.1016/S0045-6535(98)00529-3.

Butterfield S. "Dumping drugs puts traces of meds in taps." *ACP Interist* **2009**.

Butters M, Catterick D, Craig A, Curzons A, Dale D, Gillmore A*, et al.*, "Critical Assessment of Pharmaceutical Processes - A Rationale for Changing the Synthetic Route." *ChemInform*, 2006, 37 41: http://www3.interscience.wiley.com/journal/113319699/abstract?CRETRY=1&SRETRY=0.

Buttiglieri G and Knepper T. "Removal of Emerging Contaminants in Wastewater Treatment: Conventional Activated Sludge Treatment." in *Emerging Contaminants from Industrial and Municipal Waste*, Springer Berlin / Heidelberg; 2008, pp 1-35; doi:10.1007/698_5_098; http://dx.doi.org/10.1007/698_5_098.

Butzen A, Werres F, and Balsaa P. "Aufbau und Einsatz einer problemorientierten Analytik mit dem Ziel eines Monitorings ausgewählter Pharmaka in Böden und Urin [Development and application of problem-oriented analytics with the aim of monitoring selected pharmaceuticals in soil and urine]." in *Abschlussbericht Nährstofftrennung und –verwertung in der Abwassertechnik am Beispiel der "Lambertsmühle"*, Mit Förderung durch das Ministerium für Umwelt und Naturschutz, Landwirtschaft und Verbraucherschutz des Landes Nordrhein-Westfalen; 2005, pp 25-54; http://www.ipe.uni-bonn.de/BAR/BAR_21.pdf.

Buxton HT and Kolpin DW. "Pharmaceuticals, Hormones, and Other Organic Wastewater Contaminants in U.S. Streams." June 2002. 1-4 pp; http://toxics.usgs.gov/pubs/FS-027-02/index.html.

Buyuksonmez F and Sekeroglu S. "Presence of pharmaceuticals and personal care products (PPCPs) in biosolids and their degradation during composting." *Journal of Residuals Science & Technology* **2005**, *2*(1):31-40.

Buzby ME. "Pharmaceuticals in the environment - a review of PhRMA initiatives." in 4th Japan - US Government Conference on Drinking Water Quality Management and Wastewater Cotnrol, Merck & Co. Inc., 2006, 165-183 pp; http://www.nilim.go.jp/lab/bcg/siryou/tnn/tnn0402pdf/ks0402021.pdf.

Cabana H, Jiwan J-LH, Rozenberg R, Elisashvili V, Penninckx M, Agathos SN*, et al.* "Elimination of endocrine disrupting chemicals nonylphenol and bisphenol A and personal care product ingredient triclosan using enzyme preparation from the white rot fungus Coriolopsis polyzona." *Chemosphere* **2007**, *67*(4):770-778; doi:10.1016/j.chemosphere.2006.10.037.

Cabello FC. "Heavy use of prophylactic antibiotics in aquaculture: a growing problem for human and animal health and for the environment." *Environmental Microbiology* **2006**, *8*(7):1137-1144; doi:10.1111/j.1462-2920.2006.01054.x.

Cabeza MS, Gutiérrez EB, García GA, Avalos AH, and Hernández MAH. "Microbial transformations of testosterone to 5α-dihydrotestosterone by two species of Penicillium: P. chrysogenum and P. crustosum." *Steroids* **1999**, *64*(6):379-384; doi:10.1016/S0039-128X(98)00115-9.

Cadby PA, Troy WR, Middleton JD, and Vey MGH. "Fragrances: are they safe?" *Flavour and Fragrance Journal* **2002**, *17*(6):472-477; doi:10.1002/ffj.1191.

Cahill JD, Furlong ET, Burkhardt MR, Kolpin D, and Anderson LG. "Determination of pharmaceutical compounds in surface- and ground-water samples by solid-phase extraction and high-performance liquid chromatography-electrospray ionization mass spectrometry." *Journal of Chromatography A* **2004**, *1041*(1-2):171-180; doi:10.1016/j.chroma.2004.04.005.

Cai H, Kiplinger JP, Goetzinger WK, Cole RO, Laws KA, Foster M*, et al.* "A straightforward means of coupling preparative high-performance liquid chromatography and mass spectrometry." *Rapid Communications in Mass Spectrometry* **2002**, *16*:544-554; doi:10.1002/rcm.610.

Cai S-S, Hanold KA, and Syage JA. "Comparison of Atmospheric Pressure Photoionization and Atmospheric Pressure Chemical Ionization for Normal-Phase LC/MS Chiral Analysis of Pharmaceuticals." *Analytical Chemistry* **2007**, *79*(6):2491-2498; doi:10.1021/ac0620009.

Cai YQ, Wang L, Liang LN, Liu JS, Shi YL, Mou SF*, et al.* "Determination of several estrogens in serum by high-performance liquid chromatography with ultraviolet detection." *Chinese Journal of Analytical Chemistry* **2005**, *33*(7):913-916.

Cajthaml T, Kresinová Z, Svobodová K, and Möder M. "Biodegradation of endocrine-disrupting compounds and suppression of estrogenic activity by ligninolytic fungi." *Chemosphere* **2009**, *75*(6):745-750; doi:10.1016/j.chemosphere.2009.01.034.

Cajthaml T, Křesinová Z, Svobodová K, Sigler K, and Řezanka T. "Microbial transformation of synthetic estrogen 17α-ethinylestradiol." *Environmental Pollution* **2009**, *157*(12):3325-3335; doi:10.1016/j.envpol.2009.06.027.

Cakmak G, Togan I, and Severcan F. "17β-estradiol induced compositional, structural and functional changes in rainbow trout liver, revealed by FT-IR spectroscopy: A comparative study with nonylphenol." *Aquatic Toxicology* **2006**, *77*(1):53-63; doi:10.1016/j.aquatox.2005.10.015.

Calabrese EJ. "Expanding the Reference Dose Concept to Incorporate and Optimize Beneficial Effects While Preventing Toxic Responses from Nonessential Toxicants." *Regulatory Toxicology and Pharmacology* **1996**, *24*(1):S68-S75; doi:10.1006/rtph.1996.0080.

Calabrese EJ. "Evidence That Hormesis Represents an "Overcompensation" Response to a Disruption in Homeostasis." *Ecotoxicology and Environmental Safety* **1999**, *42*(2):135-137; doi:10.1006/eesa.1998.1729.

Calabrese EJ. "Societal Implications of Hormesis." *Journal of Applied Toxicology* **2000**, *20*(2):91.

Calabrese EJ. "Hormesis: changing view of the dose-response, a personal account of the history and current status." *Mutation Research/Reviews in Mutation Research* **2002**, *511*(3):181-189; doi:10.1016/S1383-5742(02)00013-3.

Calabrese EJ. "Hormesis: from marginalization to mainstream: A case for hormesis as the default dose-response model in risk assessment." *Toxicology and Applied Pharmacology* **2004**, *197*(2):125-136; doi:10.1016/j.taap.2004.02.007.

Calabrese EJ. "Hormesis outperforms threshold model in national cancer institute antitumor drug screening database." *Toxicological Sciences* **2006**, *94*(2):368-378; doi:10.1093/toxsci/kfl098.

Calabrese EJ. "P-Glycoprotein Efflux Transporter Activity Often Displays Biphasic Dose-Response Relationships." *Critical Reviews in Toxicology* **2008**, *38*(5):473 - 487; doi:10.1080/10408440802004049.

Calabrese EJ. "Hormesis: why it is important to toxicology and toxicologists." *Environmental Toxicology and Chemistry* **2008**, *27*(7):1451-1474; doi:10.1897/07-541.1.

Calabrese EJ. "Hormesis: A conversation with a critic." *Environmental Health Perspectives* **2009**, *117*(9):1339-1343; doi:10.1289/ehp.0901002.

Calabrese EJ and Baldwin LA. "The dose determines the stimulation (and posion): development of a chemical hormesis database." *International Journal of Toxicology* **1997**, *16*(6):545-560.

Calabrese EJ and Baldwin LA. "A quantitatively-based methodology for the evaluation of chemical hormesis." *Human and Ecological Risk Assessment* **1997**, *3*(4):545-554.

Calabrese EJ and Baldwin LA. "A general classification of U-shaped dose-response relationships in toxicology and their mechanistic foundations." *Human & Experimental Toxicology* **1998**, *17*(7):353-364; doi:10.1177/096032719801700701.

Calabrese EJ and Baldwin LA. "Hormesis as a default parameter in RfD derivation." *Human & Experimental Toxicology* **1998**, *17*(8):444-447; doi:10.1177/096032719801700808.

Calabrese EJ and Baldwin LA. "Can the Concept of Hormesis Be Generalized to Carcinogenesis?" *Regulatory Toxicology and Pharmacology* **1998**, *28*(3):230-241; doi:10.1006/rtph.1998.1267.

Calabrese EJ and Baldwin LA. "Reevaluation of the fundamental dose-response relationship? A new database suggests that the U-shaped, rather than the sigmoidal, curve predominates." *Bioscience* **1999**, *49*(9):725-732.

Calabrese EJ and Baldwin LA. "Implementing Hormetic Effects in the Risk Assessment Process: Differentiating Beneficial and Adverse Hormetic Effects in the RfD Derivation Process." *Human and Ecological Risk Assessment* **1999**, *5*:965-971; doi:10.1080/10807039991289257.

Calabrese EJ and Baldwin LA. "Chemical Hormesis: Its Historical Foundations as a Biological Hypothesis." *Toxicologic Pathology* **1999**, *27*(2):195-216; doi:10.1177/019262339902700207.

Calabrese EJ and Baldwin LA. "Tales of two similar hypotheses: the rise and fall of chemical and radiation hormesis." *Human & Experimental Toxicology* **2000**, *19*(1):85-97; doi:10.1191/096032700678815620.

Calabrese EJ and Baldwin LA. "The marginalization of hormesis." *Human & Experimental Toxicology* **2000**, *19*(1):32-40; doi:10.1191/096032700678815594.

Calabrese EJ and Baldwin LA. "The effects of gamma rays on longevity." *Biogerontology* **2000**, *1*(4):309-319; doi:10.1023/A:1026510001286.

Calabrese EJ and Baldwin LA. "Application of chemical hormesis concept to risk assessment: reproductive toxicity as an example." in *Toxicology in risk assessment*, Salem H and Olajos EJ, Eds., Taylor and Francis; New York, 2000, Chapter 10, pp 95- 106; http://books.google.com/books?id=ZZthTE8-xM4C&dq=toxicology+in+risk+assessment+and+salem&pg=PP1&ots=neK6a-mzTx&source=citation&sig=HU1fomb6wwqwp9FxJyl6O1zu0BE&hl=en&prev=http://www.google.com/search%3Fsourceid%3Dnavclient%26ie%3DUTF-8%26rls%3DGGLG,GGLG:2006-12,GGLG:en%26q%3Dtoxicology%2Bin%2Brisk%2Bassessment%2Band%2Bsalem&sa=X&oi=print&ct=result&cd=1&cad=bottom-3results#PPP1,M1.

Calabrese EJ and Baldwin LA. "Radiation hormesis: its historical foundations as a biological hypothesis." *Human & Experimental Toxicology* **2000**, *19*(1):41-75; doi:10.1191/096032700678815602.

Calabrese EJ and Baldwin LA. "Radiation hormesis: the demise of a legitimate hypothesis." *Human & Experimental Toxicology* **2000**, *19*(1):76-84; doi:10.1191/096032700678815611.

Calabrese EJ and Baldwin LA. "Chemical hormesis: its historical foundations as a biological hypothesis." *Human & Experimental Toxicology* **2000**, *19*(1):2-31.

Calabrese EJ and Baldwin LA. "Hormesis: U-shaped dose responses and their centrality in toxicology." *Trends in Pharmacological Sciences* **2001**, *22*(6):285-291; doi:10.1016/S0165-6147(00)01719-3.

Calabrese EJ and Baldwin LA. "The Frequency of U-Shaped Dose Responses in the Toxicological Literature." *Toxicological Sciences* **2001**, *62*(2):330-338; doi:10.1093/toxsci/62.2.330.

Calabrese EJ and Baldwin LA. "U-Shaped dose-responses in biology, toxicology, and public health." *Annual Review of Public Health* **2001**, *22*(1):15-33; doi:10.1146/annurev.publhealth.22.1.15.

Calabrese EJ and Baldwin LA. "The Hormetic Dose-Response Model Is More Common than the Threshold Model in Toxicology." *Toxicological Sciences* **2003**, *71*(2):246-250; doi:10.1093/toxsci/71.2.246.

Calabrese EJ and Baldwin LA. "Toxicology rethinks its central belief." *Nature* **2003**, *421*(6924):691-692; doi:10.1038/421691a.

Calabrese EJ, Baldwin LA, and Holland CD. "Hormesis: a highly generalizable and reproducible phenomenon with important implications for risk assessment." *Risk Analysis* **1999**, *19*(2):261-281.

Calafat A, Wong L-Y, Ye Z, Reidy JA, and Needham LL. "Concentrations of the Sunscreen Agent, Benzophenone-3, in Residents of the United States: National Health and Nutrition Examination Survey 2003–2004." *Environmental Health Perspectives* **2008**, *116*(4):A160 - A167; doi:10.1289/ehp.11269.

Calafat AM and Mckee RH. "Integrating biomonitoring exposure data into the risk assessment process: Phthalates [diethyl phthalate and di(2-ethylhexyl) phthalate] as a case study." *Environmental Health Perspectives* **2006**, *114*(11):1783-1789.

Calafat AM, Ye X, Wong L-Y, Reidy JA, and Needham LL. "Urinary Concentrations of Triclosan in the U.S. Population: 2003-2004." *Environmental Health Perspectives* **2008**, *116*(3):303-307; doi:10.1289/ehp.10768.

Calamari D, Zuccato E, Castiglioni S, Bagnati R, and Fanelli R. "Strategic survey of therapeutic drugs in the rivers Po and Lambro in northern Italy." *Environmental Science & Technology* **2003**, *37*(7):1241-1248; doi:10.1021/es020158e.

Caldwell DJ, Mastrocco F, Hutchinson TH, Länge R, Heijerick D, Janssen C*, et al.* "Derivation of an Aquatic Predicted No-Effect

Concentration for the Synthetic Hormone, 17α-Ethinyl Estradiol." *Environmental Science & Technology* **2008**, *42*(19):7046-7054; doi:10.1021/es800633q.

California Department of Public Health "Medical Waste Management Program." 2007, http://www.cdph.ca.gov/certlic/medicalwaste/Pages/default.aspx.

California Wastewater Agencies. "No Drugs Down The Drain." 2008, http://nodrugsdownthedrain.org/.

Caliman FA and Gavrilescu M. "Pharmaceuticals, Personal Care Products and Endocrine Disrupting Agents in the Environment - A Review." *CLEAN - Soil, Air, Water* **2009**, *37*(4-5):277-303; doi:10.1002/clen.200900038.

Calisto V and Esteves VI. "Psychiatric pharmaceuticals in the environment." *Chemosphere* **2009**, *77*(10):1257-1274; doi:10.1016/j.chemosphere.2009.09.021.

Callahan MA and Sexton K. "If cumulative risk assessment is the answer, what is the question?" *Environmental Health Perspectives* **2007**, *115*(5):799-806; doi:10.1289/ehp.9330.

Calleja MC, Personne G, and Geladi P. "The predictive potential of a battery of ecotoxicological tests for human acute toxicity." *Alternat Lab Animals* **1993**, *21*:330-349.

Callreus T. "The Precautionary Principle and Pharmaceutical Risk Management Current Opinion." *Drug Safety* **2005**, *28*(6):465-471.

Calmano W, Bilitewski U, Flemming HC, Hofmann T, Peiffer S, Ternes T*, et al.* "The German Water Chemical Society: Actual trends and fields of research in the principle committee 'Basic Research'." *Acta Hydrochimica et Hydrobiologica* **2002**, *29*(6-7):419-427; doi:10.1002/1521-401X(200112)29:6/7<419::AID-AHEH419>3.0.CO;2-6.

Calow P. "Variability: noise or information in ecotoxicology?" *Environmental Toxicology and Pharmacology* **1996**, *2*(2-3):121-123; doi:10.1016/S1382-6689(96)00041-5.

Calow P. "Pharmaceuticals in the environment: Issues in balancing human health benefits with ecological risks." *Toxicology Letters* **2009**, *189*(Supplement 1):S33-S33; doi:10.1016/j.toxlet.2009.06.066.

Calow P and Forbes VE. "How do physiological responses to stress translate into ecological and evolutionary processes?" *Comparative Biochemistry and Physiology, Part A: Molecular & Integrative Physiology* **1998**, *120*(1):11-16; doi:10.1016/S1095-6433(98)10003-X.

Calow P and Forbes VE. "Does ecotoxicology inform ecological risk assessment?" *Environmental Science & Technology* **2003**, *37*:146A-151A.

Calow P, Sibly RM, and Forbes VE. "Risk assessment on the basis of simplified life-history scenarios." *Environmental Toxicology and Chemistry* **1997**, *16*(9):1983-1989.

Calza P, Massolino C, Monaco G, Medana C, and Baiocchi C. "Study of the photolytic and photocatalytic transformation of amiloride in water." *Journal of Pharmaceutical and Biomedical Analysis* **2008**, *48*(2):315-320; doi:10.1016/j.jpba.2008.01.014.

Calza P, Medana C, Baiocchi C, and Pelizzetti E. "Identification of degradation products by adopting GC or HPLC/MS techniques." *Current Analytical Chemistry* **2005**, *1*(3):267-287.

Calza P, Medana C, Carbone F, Giancotti V, and Baiocchi C. "Characterization of intermediate compounds formed upon photoinduced degradation of quinolones by high-performance liquid chromatography/high-resolution multiple-stage mass spectrometry." *Rapid Communications in Mass Spectrometry* **2008**, *22*(10):1533-1552; doi:10.1002/rcm.3537.

Calza P, Sakkas VA, Medana C, Baiocchi C, Dimou A, Pelizzetti E*, et al.* "Photocatalytic degradation study of diclofenac over aqueous TiO_2 suspensions." *Applied Catalysis B: Environmental* **2006**, *67*(3-4):197-205; doi:10.1016/j.apcatb.2006.04.021.

Camacho MD, Phillipson JD, Croft SL, Rock P, Marshall SJ, and Schiff PL. "In vitro activity of Triclisia patens and some bisbenzylisoquinoline alkaloids against Leishmania donovani and Tryanosoma brucei brucei." *Phytotherapy Research* **2002**, *16*(5):432-436; doi:10.1002/ptr.929.

Cameron S. "Study by Alberta pharmacists indicates drug wastage a "mammoth" problem." *Canadian Medical Association Journal* **1996**, *155*(11):1596-1598.

Caminada D, Escher C, and Fent K. "Cytotoxicity of pharmaceuticals found in aquatic systems: Comparison of PLHC-1 and RTG-2 fish cell lines." *Aquatic Toxicology* **2006**, *79*(2):114-123; doi:10.1016/j.aquatox.2006.05.010.

Caminada D, Zaja R, Smital T, and Fent K. "Human pharmaceuticals modulate P-gp1 (ABCB1) transport activity in the fish cell line PLHC-1." *Aquatic Toxicology* **2008**, *90*(3):214-222; doi:10.1016/j.aquatox.2008.08.013.

Caminada D, Zaja R, Smital T, and Fent K. "Erratum to "Human pharmaceuticals modulate P-gp1 (ABCB1) transport activity in the

fish cell line PLHC-1" [Aquat. Toxicol. 90 (2008) 214-222]." *Aquatic Toxicology* **2009**, *91*(3):278-279; doi:10.1016/j.aquatox.2008.11.012.

Campagnolo ER, Johnson KR, Karpati A, Rubin CS, Kolpin DW, Meyer MT*, et al.* "Antimicrobial residues in animal waste and water resources proximal to large-scale swine and poultry feeding operations." *Science of the Total Environment* **2002**, *299*(1-3):89-95; doi:10.1016/S0048-9697(02)00233-4.

Campbell AM, van Eldik R, Liebau E, Barrett J, Brophy PM, Teesdale-Spittle P*, et al.* "Towards validation of glutathione S-transferase (GST) as a filarial nematode drug target." *Chemico-Biological Interactions* **2001**, *133*:240-243.

Campbell CG, Borglin SE, Green FB, Grayson A, Wozei E, and Stringfellow WT. "Biologically directed environmental monitoring, fate, and transport of estrogenic endocrine disrupting compounds in water: A review." *Chemosphere* **2006**, *65*(8):1265-1280; doi:10.1016/j.chemosphere.2006.08.003.

Campbell EW. "Field efficacy trials of the directed spray application of caffeine solutions for controlling introduced Eleutherodactylus frogs in floriculture and nursery crops in Hawaii." US Department of Agriculture, QA-846, Hilo, Hawaii, 2002.

Campbell HV. "Pharmaceuticals in the environment: Regulatory and nonregulatory approaches." *Environmental Law Reporter* **2002**, *32 ELR*(10):11200-11211.

Campbell J. "Drugs on tap: Pharmaceuticals in our drinking water." *Pharmacy Practice* **2007**:27-30.

Campbell PM and Hutchinson TH. "Wildlife and endocrine disrupters: requirements for hazard identification." *Environmental Toxicology and Chemistry* **1998**, *17*(1):127-135; doi:10.1897/1551-5028(1998)017<0127:WAEDRF>2.3.CO;2.

Campos AAR. "Removal of Polar and Emerging Organic Contaminants by Alternative Adsorbents." Doctoral Dissertation, North Carolina State University, Raleigh, North Carolina, 2008. http://www.lib.ncsu.edu/theses/available/etd-09172008-181235/.

Can NO and Altiokka G. "Determination of azapropazone in its pharmaceutical form by HPLC and flow injection analysis." *Journal of Liquid Chromatography & Related Technologies* **2005**, *28*(6):857-869; doi:10.1081/JLC-200051473.

Cañada-Cañada F, Arancibia JA, Escandar GM, Ibañez GA, Mansilla AE, Muñoz de la Peña A*, et al.* "Second-order multivariate calibration procedures applied to high-performance liquid chromatography coupled to fast-scanning fluorescence detection for the determination of fluoroquinolones." *Journal of Chromatography A* **2009**, *1216*(24):4868-4876; doi:10.1016/j.chroma.2009.04.033.

Canadian Institute for Health Information (CIHI). "Drug Expenditure in Canada 1985 to 2003." Ottawa, Ontario, Canada, 2004, 148 pp; www.cihi.ca.

Canadian Society of Hospital Pharmacists (CSHP). "Guideline for handling and disposal of hazardous pharmaceuticals (including cytotoxic drugs)." 1997, http://www.cshp.ca/productsServices/officialPublications/index_e.asp.

Canavan N. "Not As Easy As 1, 2, 3: Pharmaceutical stress testing is trickier than it appears." *Pharmaceutical Formulation & Quality* **2009**, *11*(5):22-26.

Cancio I and Cajaraville MP. "Cell biology of peroxisomes and their characteristics in aquatic organisms." in *International Review of Cytology: A Survey of Cell Biology*, 2000/06/30 ed.; Jeon KW, Ed., Acedemic Press; 2000, pp 201-293; http://www.ncbi.nlm.nih.gov/pubmed/10874580.

Candela L, Fabregat S, Josa A, Suriol J, Vigues N, and Mas J. "Assessment of soil and groundwater impacts by treated urban wastewater reuse. A case study: Application in a golf course (Girona, Spain)." *Science of the Total Environment* **2007**, *374*(1):26-35; doi:10.1016/j.scitotenv.2006.12.028.

Canesi L, Borghi C, Ciacci C, Fabbri R, Lorusso L, Vergani L*, et al.* "Short-term effects of environmentally relevant concentrations of EDC mixtures on Mytilus galloprovincialis digestive gland." *Aquatic Toxicology* **2008**, *87*(4):272-279; doi:10.1016/j.aquatox.2008.02.007.

Canesi L, Ciacci C, Lorusso LC, Betti M, Gallo G, Pojana G*, et al.* "Effects of Triclosan on Mytilus galloprovincialis hemocyte function and digestive gland enzyme activities: possible modes of action on non target organisms." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2007**, *145*(3):464-472; doi:10.1016/j.cbpc.2007.02.002.

Canesi L, Lorusso LC, Ciacci C, Betti M, Regoli F, Poiana G*, et al.* "Effects of blood lipid lowering pharmaceuticals (bezafibrate and gemfibrozil) on immune and digestive gland functions of the bivalve mollusc, Mytilus galloprovincialis." *Chemosphere* **2007**,

69(6):994-1002; doi:10.1016/j.chemosphere.2007.04.085.

Canesi L, Lorusso LC, Ciacci C, Betti M, Rocchi M, Pojana G*, et al.* "Immunomodulation of Mytilus hemocytes by individual estrogenic chemicals and environmentally relevant mixtures of estrogens; In vitro and in vivo studies." *Aquatic Toxicology* **2007**, *81*(1):36-44; doi:10.1016/j.aquatox.2006.10.010.

Cannavan A, Coyne R, Kennedy DG, and Smith P. "Concentration of 22,23-dihydroavermectin B1a detected in the sediments at an Atlantic salmon farm using orally administered ivermectin to control sea-lice infestation." *Aquaculture* **2000**, *182*(3-4):229-240; doi:10.1016/S0044-8486(99)00259-8.

Cannon J. "Pharmacology for Chemists." New York, NY, American Chemical Society and Oxford Press, ACS Professional Reference Book, 1999, 328 pp; http://www.oup.com/us/catalog/general/subject/Chemistry/PharmaceuticalChemistry/~~/dmlldz11c2EmY2k9OTc4MDg0MTIzOTI3Mg==.

Canonica S, Meunier L, and von Gunten U. "Phototransformation of selected pharmaceuticals during UV treatment of drinking water." *Water Research* **2008**, *42*(1-2):121-128; doi:10.1016/j.watres.2007.07.026.

Canosa P, Rodriguez I, Rubi E, Bollain MH, and Cela R. "Optimisation of a solid-phase microextraction method for the determination of parabens in water samples at the low ng per litre level." *Journal of Chromatography A* **2006**, *1124*(1-2):3-10; doi:10.1016/j.chroma.2006.03.045.

Canosa P, Rodriguez I, Rubi E, and Cela R. "Optimization of solid-phase microextraction conditions for the determination of triclosan and possible related compounds in water samples." *Journal of Chromatography A* **2005**, *1072*(1):107-115; doi:10.1016/j.chroma.2004.11.032.

Canosa P, Rodriguez I, Rubi E, and Cela R. "Determination of parabens and triclosan in indoor dust using matrix solid-phase dispersion and gas chromatography with tandem mass spectrometry." *Analytical Chemistry* **2007**, *79*(4):1675-1681; doi:10.1021/ac061896e.

Canosa P, Rodriguez I, Rubi E, Negreira N, and Cela R. "Formation of halogenated by-products of parabens in chlorinated water." *Analytica Chimica Acta* **2006**, *575*(1):106-113; doi:10.1016/j.aca.2006.05.068.

Canosa P, Rodriguez I, Rubi E, Ramil M, and Cela R. "Simplified sample preparation method for triclosan and methyltriclosan determination in biota and foodstuff samples." *Journal of Chromatography A* **2008**, *1188*(2):132-139; doi:10.1016/j.chroma.2008.02.064.

Canterino M, Andreozzi R, Caprio V, Iamarino M, Marotta R, and Tufano V. "Removal of organic pollutants from soil: The ozonation of clofibric acid in aqueous slurries." *Ozone: Science & Engineering* **2006**, *28*(1):47-52; doi:10.1080/01919510500479148.

Canterino M, Marotta R, Temussi F, and Zarrelli A. "Photochemical behaviour of musk tibetene - A chemical and kinetic investigation." *Environmental Science and Pollution Research* **2008**, *15*(3):182-187; doi:10.1065/espr2007.12.464.

Cao Q, Yu Q, and Connell DW. "Degradation rate constants of steroids in sewage treatment works and receiving water." *Environmental Technology* **2008**, *29*(12):1321 - 1330; doi:10.1080/09593330802393244.

Capdevielle M, Van Egmond R, Whelan M, Versteeg D, Hofmann-Kamensky M, Inauen J*, et al.* "Consideration of exposure and species sensitivity of triclosan in the freshwater environment." *Integrated Environmental Assessment and Management* **2008**, *4*(1):15-23; doi:10.1897/IEAM_2007-022.

Capella-Peiro E, Monferrer-Pons L, Garcia-Alvarez-Coque C, and Esteve-Romero J. "Flow-injection spectrophotometric determination of nicotinic acid in micellar medium of N-cetylpyridinium chloride." *Analytica Chimica Acta* **2001**, *427*(1):93-100; doi:10.1016/S0003-2670(00)01194-6.

Capital Returns I. "Your risks in handling outdated and unusable drugs: A guide to JCAHO and regulatory standards." Capital Returns, Inc., 1998, 36 pp.

Capitan-Vallvey LF, Ariza A, Checa R, and Navas N. "Liquid chromatography-mass spectrometry determination of six 5-nitroimidazoles in animal feedstuff." *Chromatographia* **2007**, *65*(5-6):283-290; doi:10.1365/s10337-006-0147-9.

Capleton AC, Courage C, Rumsby P, Holmes P, Stutt E, Boxall ABA*, et al.* "Prioritising veterinary medicines according to their potential indirect human exposure and toxicity profile." *Toxicology Letters* **2006**, *163*(3):213-223; doi:10.1016/j.toxlet.2005.10.023.

Capodaglio AG and Callegari A. "Online Monitoring Technologies For Drinking Water Systems Security." in *Risk Management of Water Supply and Sanitation Systems*, Hlavinek P, Popovska C, Marsalek J, Mahrikova I and Kukharchyk T, Eds., Springer; The Netherlands, 2009, pp 153-179; doi:10.1007/978-90-481-2365-0_15; http://dx.doi.org/10.1007/978-90-481-2365-0_15.

Capone DG, Weston DP, Miller V, and Shoemaker C. "Antibacterial residues in marine sediments and invertebrates following chemotherapy in aquaculture." *Aquaculture* **1996**, *145*(1-4):55-75; doi:10.1016/S0044-8486(96)01330-0.

Carabin H, Escalona M, Marshall C, Vivas-Martinez S, Botto C, Joseph L*, et al.* "Prediction of community prevalence of human onchocerciasis in the Amazonian onchocerciasis focus: Bayesian approach." *Bulletin of The World Health Organization* **2003**, *81*(7):482-490; doi:10.1590/S0042-96862003000700006.

Carballa Arcos M. "Fate of Pharmaceutical and Personal Care Products (PPCPs) in Sewage Treatment Plants focusing on the anaerobic digestion of sludge." Doctoral Dissertation, 2005.

Carballa M, Fink G, Omil F, Lema JM, and Ternes T. "Determination of the solid-water distribution coefficient (Kd) for pharmaceuticals, estrogens and musk fragrances in digested sludge." *Water Research* **2008**, *42*(1-2):287-295; doi:10.1016/j.watres.2007.07.012.

Carballa M, Manterola G, Larrea L, Ternes T, Omil F, and Lema JM. "Influence of ozone pre-treatment on sludge anaerobic digestion: Removal of pharmaceutical and personal care products." *Chemosphere* **2007**, *67*(7):1444-1452; doi:10.1016/j.chemosphere.2006.10.004.

Carballa M, Omil F, Alder AC, and Lema JM. "Comparison between the conventional anaerobic digestion of sewage sludge and its combination with a chemical or thermal pre-treatment concerning the removal of pharmaceuticals and personal care products." *Water Science and Technology* **2006**, *53*(8):109-117; doi:10.2166/wst.2006.241.

Carballa M, Omil F, and Lema JM. "Removal of pharmaceuticals and personal care products (PPCPS) from municipal wastewaters by physico-chemical processes." *Electronic Journal of Environmental, Agricultural and Food Chemistry* **2003**, *2*(2):309-313.

Carballa M, Omil F, and Lema JM. "Removal of cosmetic ingredients and pharmaceuticals in sewage primary treatment." *Water Research* **2005**, *39*(19):4790-4796; doi:10.1016/j.watres.2005.09.018.

Carballa M, Omil F, and Lema JM. "Calculation Methods to Perform Mass Balances of Micropollutants in Sewage Treatment Plants. Application to Pharmaceutical and Personal Care Products (PPCPs)." *Environmental Science & Technology* **2007**, *41*(3):884-890.

Carballa M, Omil F, and Lema JM. "Comparison of predicted and measured concentrations of selected pharmaceuticals, fragrances and hormones in Spanish sewage." *Chemosphere* **2008**, *72*(8):1118-1123; doi:10.1016/j.chemosphere.2008.04.034.

Carballa M, Omil F, Lema JM, Llompart M, Garcia C, Rodriguez I*, et al.* "Behaviour of pharmaceuticals and personal care products in a sewage treatment plant of northwest Spain." *Water Science and Technology* **2005**, *52*(8):29-35.

Carballa M, Omil F, Lema JM, Llompart M, Garcia-Jares C, Rodriguez I*, et al.* "Behavior of pharmaceuticals, cosmetics and hormones in a sewage treatment plant." *Water Research* **2004**, *38*(12):2918-2926; doi:10.1016/j.watres.2004.03.029.

Carballa M, Omil F, Lema JM, and Ternes T. "Fate of PPCPs during anaerobic treatment of sewage sludge." presented at POSEIDON Symposium, 2003.

Carballa M, Omil F, Ternes T, and Lema JM. "Fate of pharmaceutical and personal care products (PPCPs) during anaerobic digestion of sewage sludge." *Water Research* **2007**, *41*(10):2139-2150; doi:10.1016/j.watres.2007.02.012.

Carballo M, Aguayo S, de la Torre A, and Munoz MJ. "Plasma vitellogenin levels and gonadal morphology of wild carp (Cyprinus carpio L.) in a receiving rivers downstream of Sewage Treatment Plants." *Science of the Total Environment* **2005**, *341*(1-3):71-79; doi:10.1016/j.scitotenv.2004.08.021.

Carbone AL, Song M, and Uhrich KE. "Iodinated Salicylate-Based Poly(anhydride-esters) as Radiopaque Biomaterials." *Biomacromolecules* **2008**, *9*(6):1604-1612.

Cardenas ME, Sanfridson A, Cutler NS, and Heitman J. "Signal-transduction cascades as targets for therapeutic intervention by natural products." *Trends in Biotechnology* **1998**, *16*(10):427-433; doi:10.1016/S0167-7799(98)01239-6.

Cardoso A, Prigiobbe V, Giulianelli M, Baer E, De Benedittis J, and Coelho ST. "Assessing the impact of infiltration and exfiltration

in sewer systems using performance indicators: case studies of the APUSS project." *Water Practice & Technology* **2006**, *1*(1):1-8; doi:10.2166/wpt.2006.019.

Cardoza LA, Almeida VK, Carr A, Larive CK, and Graham DW. "Separations coupled with NMR detection." *Trends in Analytical Chemistry* **2003**, *22*(10):766-775; doi:10.1016/S0165-9936(03)01012-4.

Cardoza LA, Knapp CW, Larive CK, Belden JB, Lydy M, and Graham DW. "Factors affecting the fate of ciprofloxacin in aquatic field systems." *Water, Air, & Soil Pollution* **2005**, *161*(1-4):383-398; doi:10.1007/s11270-005-5550-6.

Cardoza LA, Williams TD, Drake B, and Larive CK. "LC/MS/MS and LC/NMR for the structure elucidation of ciprofloxacin transformation products in pond water solution." in *ACS Symposium #850: Liquid Chromatography/Mass Spectrometry, MS/MS and Time of Flight MS: Analysis of Emerging Contaminants*, Almagor UM, Ed., American Chemical Society; 2003, Chapter 9, pp 146-160; http://www.powells.com/biblio?isbn=9780841238251.

Careri M, Elviri L, Mangia A, and Zagnoni I. "Liquid chromatography-electrospray ionization tandem mass spectrometry and liquid chromatography with fluorescence detection for determination of octylphenol and nonylphenol in municipal wastewater at trace levels." *Chromatographia* **2003**, *57*(5-6):321-327; doi:10.1007/BF02492403.

Cargouet M, Perdiz D, and Levi Y. "Evaluation of the estrogenic potential of river and treated waters in the Paris area (France) using in vivo and in vitro assays." *Ecotoxicology and Environmental Safety* **2007**, *67*(1):149-156; doi:10.1016/j.ecoenv.2006.03.001.

Cargouet M, Perdiz D, Mouatassim-Souali A, Tamisier-Karolak S, and Levi Y. "Assessment of river contamination by estrogenic compounds in Paris area (France)." *Science of the Total Environment* **2004**, *324*(1-3):55-66; doi:10.1016/j.scitotenv.2003.10.035.

Carlesi Jara C, Fino D, Specchia V, Saracco G, and Spinelli P. "Electrochemical removal of antibiotics from wastewaters." *Applied Catalysis B: Environmental* **2007**, *70*(1-4):479-487; doi:10.1016/j.apcatb.2005.11.035.

Carlson JC and Mabury SA. "Dissipation kinetics and mobility of chlortetracycline, tylosin, and monensin in an agricultural soil in Northumberland County, Ontario, Canada." *Environmental Toxicology and Chemistry* **2006**, *25*(1):1-10; doi:10.1897/04-657R.1.

Carlsson C, Johansson A-K, Alvan G, Bergman K, and Kuhler T. "Are pharmaceuticals potent environmental pollutants? Part I: Environmental risk assessments of selected active pharmaceutical ingredients." *Science of the Total Environment* **2006**, *364*(1-3):67-87; doi:10.1016/j.scitotenv.2005.06.035.

Carlsson C, Johansson A-K, Alvan G, Bergman K, and Kuhler T. "Are pharmaceuticals potent environmental pollutants?: Part II: Environmental risk assessments of selected pharmaceutical excipients." *Science of the Total Environment* **2006**, *364*(1-3):88-95; doi:10.1016/j.scitotenv.2005.06.036.

Carlsson G. "Fish and amphibians as test organisms for evaluation of effects caused by chemicals." Doctoral Dissertation, Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden, 2007. 40 pp; http://diss-epsilon.slu.se/archive/00001470/01/Thesis_Gunnar_Carlsson.pdf.

Carlsson G and Norrgren L. "Synthetic musk toxicity to early life stages of zebrafish (Danio rerio)." *Archives of Environmental Contamination and Toxicology* **2004**, *46*(1):102-105; doi:10.1007/s00244-003-2288-2.

Carlsson G, Orn S, Andersson PL, Soderstrom H, and Norrgren L. "The impact of musk ketone on reproduction in zebrafish (Danio rerio)." *Marine Environmental Research* **2000**, *50*(1-5):237-241; doi:10.1016/S0141-1136(00)00075-1.

Carlsson G, Örn S, and Larsson DGJ. "Effluent from Bulk Drug Production is Toxic to Aquatic Vertebrates." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2656-2662; doi:10.1897%2F08-524.1.

Carlsson S. "Sustainable Pharmaceutical Distribution and Trade." in *A Healthy Future- Pharmaceuticals in a Sustainable Society*, collaborative publication of Apoteket AB, MistraPharma, and Stockholm County Council; Sweden, 2009, Chapter 5, pp 92-105; http://www.epa.gov/nerlesd1/bios/daughton/Pharmaceuticals-Sustainability-2009.pdf.

Carlucci G, D'Archivio AA, Maggi MA, Mazzeo P, and Ruggieri F. "Investigation of retention behaviour of non-steroidal anti-inflammatory drugs in high-performance liquid chromatography by using quantitative structure-retention relationships." *Analytica Chimica Acta* **2007**, *601*(1):68-76; doi:10.1016/j.aca.2007.08.026.

Carmosini N and Lee LS. "Sorption and Degradation of Selected Pharmaceuticals in Soil and Manure." in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press; Boca Raton, FL, 2007, Chapter 6, pp 139-166; http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Tr

eatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#PPR8,M1.

Carmosini N and Lee LS. "Ciprofloxacin sorption by dissolved organic carbon from reference and bio-waste materials." *Chemosphere* **2009**, *77*(6):813-820; doi:10.1016/j.chemosphere.2009.08.003.

Carnevale RA and Shryock TR. "Animal health pharmaceutical industry." *Preventative Veterinary Medicine* **2006**, *73*(2-3):217-220; doi:10.1016/j.prevetmed.2005.09.009.

Carney Almroth B, Albertsson E, Sturve J, and Förlin L. "Oxidative stress, evident in antioxidant defences and damage products, in rainbow trout caged outside a sewage treatment plant." *Ecotoxicology and Environmental Safety* **2008**, *70*(3):370-378; doi:10.1016/j.ecoenv.2008.01.023.

Caro E, Marce RM, Cormack PAG, Sherrington DC, and Borrull F. "Selective enrichment of anti-inflammatory drugs from river water samples by solid-phase extraction with a molecularly imprinted polymer." *Journal of Separation Science* **2005**, *28*(16):2080-2085; doi:10.1002/jssc.200500027.

Carou S. "Pharmaceuticals and Personal Care Products in the Environment: What We Know and What We Need to Know." Environment Canada, 2008, 4 pp; http://ec.gc.ca/scitech/default.asp?lang=En&n=6A2D63E5&xsl=articlesservices,viewfull&po=4FCA714A.

Carpenter DO, Arcaro K, and Spink DC. "Understanding the Human Health Effects of Chemical Mixtures." *Environmental Health Perspectives* **2002**, *110*(S1):25-42.

Carpenter L. "Pharmacy Law CE Column: Drug Disposal." **2009**, http://www.cedrugstorenews.com/userapp/March%202009%20Law%20Column.cfm.

Carpenter S. "Groups to sue cleaning product makers for ingredient disclosure." Los Angeles Times, 2009, 18 February http://www.latimes.com/news/science/environment/la-fi-toxics18-2009feb18,0,6836599.story.

Carpinteiro J, Quintana JB, Martinez E, Rodriguez I, Carro AM, Lorenzo RA*, et al.* "Application of strategic sample composition to the screening of anti-inflammatory drugs in water samples using solid-phase microextraction." *Analytica Chimica Acta* **2004**, *524*(1-2):63-71; doi:10.1016/j.aca.2004.03.026.

Carpinteiro J, Quintana JB, Rodriguez I, Carro AM, Lorenzo RA, and Cela R. "Applicability of solid-phase microextraction followed by on-fiber silylation for the determination of estrogens in water samples by gas chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2004**, *1056*(1-2):179-185; doi:10.1016/j.chroma.2004.06.111.

Carr DL. "Biotransformation of estrogens and synthetic pharmaceuticals and personal care products in a sandy loam soil." Doctoral Dissertation, Environmental Toxicology, 2009. http://etd.lib.ttu.edu/theses/available/etd-06262009-162025/.

Carrara C, Ptacek CJ, Robertson WD, Blowes DW, Moncur MC, Sverko E*, et al.* "Fate of Pharmaceutical and Trace Organic Compounds in Three Septic System Plumes, Ontario, Canada." *Environmental Science & Technology* **2008**, *42*(8):2805-2811.

Carrasquillo AJ, Bruland GL, MacKay AA, and Vasudevan D. "Sorption of Ciprofloxacin and Oxytetracycline Zwitterions to Soils and Soil Minerals: Influence of Compound Structure." *Environmental Science & Technology* **2008**, *42*(20):7634-7642.

Carter BA and Coppens RC. "EnviR research project on drug waste in Alberta Summary report." Alberta Pharmaceutical Association, Edmonton, AB, July, 1996, 19 pp; http://hip.assembly.ab.ca/ipac20/ipac.jsp?session=122119498W0H1.62071&profile=public2&uri=full%3D3100001~!20208~!0&booklistformat=.

Cartinella JL, Cath TY, Flynn MT, Miller GC, Hunter KW, and Childress AE. "Removal of Natural Steroid Hormones from Wastewater Using Membrane Contactor Processes." *Environmental Science & Technology* **2006**, *40*(23):7381-7386.

Carucci A, Cappai G, and Piredda M. "Biodegradability and toxicity of pharmaceuticals in biological wastewater treatment plants." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2006**, *41*(9):1831-1842; doi:10.1080/10934520600779000.

Casciaro S, Errico RP, Conversano F, Demitri C, and Distante A. "Experimental investigations of nonlinearities and destruction mechanisms of an experimental phospholipid-based ultrasound contrast agent." *Investigative Radiology* **2007**, *42*(2):95-104; doi:10.1097/01.rli.0000251576.68097.d1.

Cascone A, Forni C, and Migliore L. "Flumequine uptake and the acquatic duckweed, Lemna minor L." *Water, Air, & Soil Pollution* **2004**, *156*(1):241-249; doi:10.1023/B:WATE.0000036816.15999.53.

Caselles C. "Les médicaments: contaminants émergents?" *Environment, Risques & Sante* **2006**, *5*(4).

Casey FXM, Hakk H, Šimunek J, and Larsen GL. "Fate and transport of testosterone in agricultural soils." *Environmental Science & Technology* **2004**, *38*(3):790-798; doi:10.1021/es034822i.

Casey FXM, Larsen GL, Hakk H, and Šimunek J. "Fate and transport of 17β-estradiol in soil - water systems." *Environmental Science & Technology* **2003**, *37*(11):2400-2409; doi:10.1021/es026153z.

Casey FXM, Simunek J, Lee J, Larsen GL, and Hakk H. "Sorption, mobility, and transformation of estrogenic hormones in natural soil." *Journal of Environmental Quality* **2005**, *34*(4):1372-1379; doi:10.2134/jeq2004.0290.

Cashman AL and Warshaw EM. "Parabens: A review of epidemiology, structure, allergenicity, and hormonal properties." *Dermatitis* **2005**, *16*(2):57-66.

Cassel S. "Pharmaceutical Project Summary and Prospectus." PSI, Ed., 14 August, 2008, 3 pp; www.productstewardship.us.

Cassel S and Pettersson K. "Läkemedelsindustrins producentansvar för förpackningar (The pharmaceutical industry's producer responsibility for packaging)." Kulturgeografiska institutionen, Uppsala University, Uppsala, 1995.

Cassell S and Fletcher S. "PSI National Dialogue on Pharmaceuticals - Region 3 PPCP Network Conference Call." Product Stewardship Institute, Inc., 8 July 2008.

Castaño A and Gómez-Lechón MJ. "Comparison of basal cytotoxicity data between mammalian and fish cell lines: A literature survey." *Toxicology In Vitro* **2005**, *19*(5):695-705; doi:10.1016/j.tiv.2005.04.002.

Castegnaro M, De Meo M, Laget M, Michelon J, Garren L, Sportouch MH*, et al.* "Chemical degradation of wastes of antineoplastic agents. 2: Six anthracyclines: idarubicin, doxorubicin, epirubicin, pirarubicin, aclarubicin, and daunorubicin." *International Archives of Occupational and Environmental Health* **1997**, *70*(6):378-384.

Castegnaro M and Hansel S. "Antineoplastic drugs in sewage from hospitals and households." *Environment, Risques & Sante* **2006**, *5*(4):266-270.

Castellví dPJMS. "[L'"Humanae vitae" Una profezia scientifica] (Italian)." L'Osservatore Romano, 2009, 3 January http://tuespetrus.wordpress.com/2009/01/03/l%C2%ABhumanae-vitae%C2%BB-una-profezia-scientifica/.

Castensson S. "Pharmaceutical Waste." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kummerer K, Ed., Springer; 2008, Chapter 31, pp 489-499; doi:10.1007/978-3-540-74664-5_31; http://dx.doi.org/10.1007/978-3-540-74664-5_31.

Castensson S, Eriksson V, Lindborg K, and Wettermark B. "A method to include the environmental hazard in drug prescribing." *Pharmacy World and Science* **2009**, *31*(1):24-31; doi:10.1007/s11096-008-9260-1.

Castensson S and Gunnarsson B. "Drugs and the flow of the substances they contain." in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 1, pp 7-19; http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Castiglioni S, Bagnati R, Calamari D, Fanelli R, and Zuccato E. "A multiresidue analytical method using solid-phase extraction and high-pressure liquid chromatography tandem mass spectrometry to measure pharmaceuticals of different therapeutic classes in urban wastewaters." *Journal of Chromatography A* **2005**, *1092*(2):206-215; doi:10.1016/j.chroma.2005.07.012.

Castiglioni S, Bagnati R, Fanelli R, Pomati F, Calamari D, and Zuccato E. "Removal of pharmaceuticals in sewage treatment plants in Italy." *Environmental Science & Technology* **2006**, *40*(1):357-363; doi:10.1021/es050991m.

Castiglioni S, Beagnati R, Fanelli R, and Zuccato E. "Monitoring pharmaceuticals contamination in waste and surface water in Italy by mass spectrometric analysis." in *An Introduction to Environmental Pharmacology*, 1st ed.; Rahman SZ, Shahid M and Gupta V, Eds., Ibn Sina Academy; Aligarh, India, 2008, 6, pp 109-131.

Castiglioni S, Fanelli R, Calamari D, Bagnati R, and Zuccato E. "Methodological approaches for studying pharmaceuticals in the

environment by comparing predicted and measured concentrations in River Po, Italy." *Regulatory Toxicology and Pharmacology* **2004**, *39*(1):25-32; doi:10.1016/j.yrtph.2003.10.002.

Castiglioni S, Pomati F, Miller K, Burns BP, Zuccato E, Calamari D*, et al.* "Novel homologs of the multiple resistance regulator marA in antibiotic-contaminated environments." *Water Research* **2008**, *42*(16):4271-4280; doi:10.1016/j.watres.2008.07.004.

Castiglioni S, Zuccato E, Chiabrando C, Fanelli R, and Bagnati R. "Detecting illicit drugs and metabolites in wastewater using high performance liquid chromatography-tandem mass spectrometry." *Spectroscopy Europe* **2007**, *19*(4):7-9.

Castiglioni S, Zuccato E, Chiabrando C, Fanelli R, and Bagnati R. "Mass spectrometric analysis of illicit drugs in wastewater and surface water." *Mass Spectrometry Reviews* **2008**, *27*(4):378-394; doi:10.1002/mas.20168.

Castiglioni S, Zuccato E, Crisci E, Chiabrando C, Fanelli R, and Bagnati R. "Identification and measurement of illicit drugs and their metabolites in urban wastewater by liquid chromatography - tandem mass spectrometry." *Analytical Chemistry* **2006**, *78*(24):8421-8429; doi:10.1021/ac061095b.

Castro LFC, Melo C, Guillot R, Mendes I, Queiros S, Lima D*, et al.* "The estrogen receptor of the gastropod Nucella lapillus: Modulation following exposure to an estrogenic effluent?" *Aquatic Toxicology* **2007**, *84*(4):465-468; doi:10.1016/j.aquatox.2007.07.008.

Cathum S and Sabik H. "Determination of steroids and coprostanol in surface water, effluent and mussel using gas chromatography-mass spectrometry." *Chromatographia* **2001**, *53*(Supp 1):S394-S399; doi:10.1007/BF02490364.

Cavalieri EL, Stack DE, Devanesan PD, Todorovic R, Dwivedy I, Higginbotham S*, et al.* "Molecular origin of cancer: catechol estrogen-3,4-quinones as endogenous tumor initiators." *Proceedings of the National Academy of Sciences of the United States of America* **1997**, *94*(20):10937-10942.

Cavas T and Ergene-Gozukara S. "Genotoxicity evaluation of metronidazole using the piscine micronucleus test by acridine orange fluorescent staining." *Environmental Toxicology and Pharmacology* **2005**, *19*(1):107-111; doi:10.1016/j.etap.2004.05.007.

CDC. "Nicotine Poisoning After Ingestion of Contaminated Ground Beef --- Michigan, 2003." *Morbidity Mortality Weekly Report (MMWR)* **2003**, *52*(18):413-416.

CDC. "National report on human exposure to environmental chemicals: spotlight on triclosan." Department of Health and Human Services, Centers for Disease Control and Prevention, 2007. 1 pp.

CDC "Long-Term Care Drug Database System." Centers for Disease Control and Prevention 2009; http://www.cdc.gov/nchs/nnhs/drug_database.htm.

CDC Wonder. "Compressed Mortality File Underlying Cause-of-Death." 12 March, 2008, 1 pp; http://wonder.cdc.gov/mortsql.html.

Ceballos BSO, Soares NE, Moraes MR, Catao RMR, and Konig A. "Microbiological aspects of an urban river used for unrestricted irrigation in the semi-arid region of north-east Brazil." *Water Science and Technology* **2003**, *47*(3):51-57.

Cecinato A and Balducci C. "Detection of cocaine in the airborne particles of the Italian cities Rome and Taranto." *Journal of Separation Science* **2007**, *30*(12):1930-1935; doi:10.1002/jssc.200700039.

Cecinato A, Balducci C, and Nervegna G. "Occurrence of cocaine in the air of the World's cities: An emerging problem? A new tool to investigate the social incidence of drugs?" *Science of the Total Environment* **2009**, *407*(5):1683-1690; doi:10.1016/j.scitotenv.2008.11.004.

Cecinato A, Balducci C, Nervegna G, Tagliacozzo G, and Allegrini I. "Ambient air quality and drug aftermaths of the Notte Bianca (White Night) holidays in Rome." *Journal of Environmental Monitoring* **2009**, *11*(1):200-204; doi:10.1039/b805070h.

Cela R, Martinez JA, Gonzalez-Barreiro C, and Lores M. "Multi-objective optimisation using evolutionary algorithms: its application to HPLC separations." *Chemometrics and Intelligent Laboratory Systems* **2003**, *69*(1-2):137-156; doi:10.1016/j.chemolab.2003.07.001.

Celiz MD, Pérez S, Barceló D, and Aga DS. "Trace Analysis of Polar Pharmaceuticals in Wastewater by LCMSMS: Comparison of Membrane Bioreactor and Activated Sludge Systems." *Journal of Chromatographic Science* **2009**, *47*(1):19-25.

Celiz MD, Tso J, and Aga DS. "Pharmaceutical metabolites in the environment: analytical challenges and ecological risks."

Environmental Toxicology and Chemistry **2009**, *28*(12):2473-2484; doi:10.1897/09-173.1.

Center for Food Safety. "Sewage sludge." 2008; http://dx.doi.org/10.1016/j.envint.2008.10.002.

Ceretti E, Zani C, Zerbini I, Guzzella L, Scaglia M, Berna V*, et al.* "Genotoxicity of compounds migrating from polyethylene terephthalate (PET) bottles into mineral water." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.10.030.

Cerkvenik V, Doganoc DZ, Skubic V, Beek WMJ, and Keukens HJ. "Thermal and long-term freezing stability of ivermectin residues in sheep milk." *European Food Research and Technology* **2001**, *213*:72-76; doi:10.1007/s002170100307.

Cermola F, DellaGreca M, Iesce MR, Montanaro S, Previtera L, and Temussi F. "Photochemical behavior of the drug atorvastatin in water." *Tetrahedron* **2006**, *62*(31):7390-7395; doi:10.1016/j.tet.2006.05.027.

Cermola F, DellaGreca M, Iesce MR, Montanaro S, Previtera L, Temussi F*, et al.* "Irradiation of fluvastatin in water: Structure elucidation of photoproducts." *Journal of Photochemistry and Photobiology A: Chemistry* **2007**, *189*(2-3):264-271; doi:10.1016/j.jphotochem.2007.02.011.

Cermola F, DellaGreca M, Iesce MR, Previtera L, Rubino M, and Temussi F. "Photoreactivity of triazolopyridinones, including the drug trazodone, in aqueous solution." *Journal of Photochemistry and Photobiology A: Chemistry* **2009**, *206*(2-3):198-204; doi:10.1016/j.jphotochem.2009.07.003.

CESAR "Current Substance Abuse Legislation." Center for Substance Abuse Research 2008; http://www.cesar.umd.edu/cesar/library/statutes.asp.

Cevasco A, Urbatzka R, Bottero S, Massari A, Pedemonte F, Kloas W*, et al.* "Endocrine disrupting chemicals (EDC) with (anti)estrogenic and (anti)androgenic modes of action affecting reproductive biology of Xenopus laevis: II. Effects on gonad histomorphology." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2008**, *147*(2):241-251; doi:10.1016/j.cbpc.2007.10.001.

Cha J and Cupples AM. "Detection of the Antimicrobials Triclocarban and Triclosan in Agricultural Soils following Land Application of Municipal Biosolids." *Water Research* **2009**, *43*(9):2522-2530; doi:10.1016/j.watres.2009.03.004.

Cha JM, Yang S, and Carlson KH. "Rapid analysis of trace levels of antibiotic polyether ionophores in surface water by solid-phase extraction and liquid chromatography with ion trap tandem mass spectrometric detection." *Journal of Chromatography A* **2005**, *1065*(2):187-198; doi:10.1016/j.chroma.2004.12.091.

Cha JM, Yang S, and Carlson KH. "Trace determination of β-lactam antibiotics in surface water and urban wastewater using liquid chromatography combined with electrospray tandem mass spectrometry." *Journal of Chromatography A* **2006**, *1115*(1-2):46-57; doi:10.1016/j.chroma.2006.02.086.

Chalew T. "Chemical indicators of surface water pollution." Masters Dissertation, The University of North Carolina at Chapel Hill, Chapel Hill, NC, 2006. 184 pp.

Chalew TEA and Halden RU. "Environmental Exposure of Aquatic and Terrestrial Biota to Triclosan and Triclocarban." *Journal of the American Water Resources Association* **2009**, *45*(1):4-13; doi:10.1111/j.1752-1688.2008.00284.x.

Chambaz A, Meirim I, and Decombaz J. "Urinary caffeine after coffee consumption and heat dehydration." *International Journal of Sports Medicine* **2001**, *22*(5):366-372.

Chamberlain E and Adams C. "Oxidation of sulfonamides, macrolides, and carbadox with free chlorine and monochloramine." *Water Research* **2006**, *40*(13):2517-2526; doi:10.1016/j.watres.2006.04.039.

Chambers PA, Dupont J, Schaefer KA, and Bielak AT. "Linking Water Science to Policy: Effects of Agricultural Activities on Water Quality [Science de l'eau et politiques: Effets des activités agricoles sur la qualité de l'eau]." Canadian Council of Ministers of the Environment, Quebec City, Quebec, Canada, 31 January-1 February, 2002, 43 pp; http://www.ec.gc.ca/inre-nwri/795D939F-E681-4A71-9E7B-EBECFCCB701C/2002_06_26_agriculture_report.pdf.

Chambliss CK, Ramirez AJ, Mottaleb MA, and Brooks BW. "Poster 82 Liquid chromatography tandem mass spectrometry screening analysis of select pharmaceuticals in aquatic organisms collected from an effluent-dominated stream." in SETAC, Montreal, Cananda, 6 November, 2006.

Champ M, O'Connor T, and Park P. "Ocean Dumping of Municipal and Industrial Wastes in the United States: An Analysis of

Environmental Effects." *Oceans* **1981**, *13*:720.

Champagne P. "Personal Care Products." in *Contaminats of Emerging Environmental Concern*, Bhandari A, Surampalli RY, Adams CD, Champagne P, Ong SK, Tyagi RD and Zhang TC, Eds., American Society of Civil Engineers; Reston, Virginia, 2008, Chapter 4, pp 86-140; http://books.google.com/books?id=1G7D2d99orkC&source=gbs_navlinks_s.

Chan B. 2007, "Drug factories ordered to clean up." China Daily Audio News, http://www.chinadaily.com.cn/language_tips/cdaudio/2007-09/05/content_6082495.htm.

Chan SYV. "Potential environmental hazards of wastewater from hospitals and their mitigation." Masters Dissertation, Hong Kong University, China, Hong Kong, 2005. http://sunzi1.lib.hku.hk/hkuto/record/B41016257.

Chanda SK and Caldwell JS. "Fulfilling the promise: drug discovery in the post-genomic era." *Drug Discovery Today* **2003**, *8*(4):168-174; doi:10.1016/S1359-6446(02)02595-3.

Chander Y, Kumar K, Goyal SM, and Gupta SC. "Antibacterial activity of soil-bound antibiotics." *Journal of Environmental Quality* **2005**, *34*(6):1952-1957; doi:10.2134/jeq2005.0017.

Chandran A, Hatha AAM, Varghese S, and Sheeja KM. "Prevalence of Multiple Drug Resistant Escherichia coli Serotypes in a Tropical Estuary, India." *Microbes and Environments* **2008**, *23*(2):153-158.

Chang C-Y, Chang J-S, Vigneswaran S, and Kandasamy J. "Pharmaceutical wastewater treatment by membrane bioreactor process - a case study in southern Taiwan." *Desalination* **2008**, *234*(1-3):393-401; doi:10.1016/j.desal.2007.09.109.

Chang H, Hu J, Asami M, and Kunikane S. "Simultaneous analysis of 16 sulfonamide and trimethoprim antibiotics in environmental waters by liquid chromatography-electrospray tandem mass spectrometry." *Journal of Chromatography A* **2008**, *1190*(1-2):390-393.

Chang H, Hu J, and Shao B. "Occurrence of Natural and Synthetic Glucocorticoids in Sewage Treatment Plants and Receiving River Waters." *Environmental Science & Technology* **2007**, *41*(10):3462-3468.

Chang H, Hu J, Wang L, and Shao B. "Occurrence of sulfonamide antibiotics in sewage treatment plants." *Chinese Science Bulletin* **2008**, *53*(4):514-520; doi:10.1007/s11434-008-0123-x.

Chang H, Wan Y, and Hu J. "Determination and Source Apportionment of Five Classes of Steroid Hormones in Urban Rivers." *Environmental Science & Technology* **2009**, *43*(20):7691-7698; doi:10.1021/es803653j.

Chang H, Wu S, Hu J, Asami M, and Kunikane S. "Trace analysis of androgens and progestogens in environmental waters by ultra-performance liquid chromatography-electrospray tandem mass spectrometry." *Journal of Chromatography A* **2008**, *1195*(1-2):44-51; doi:10.1016/j.chroma.2008.04.055.

Chang H-S, Choo K-H, Lee B, and Choi S-J. "The methods of identification, analysis, and removal of endocrine disrupting compounds (EDCs) in water: A review." *Journal of Hazardous Materials* **2009**, *172*(1):1-12; doi:10.1016/j.jhazmat.2009.06.135.

Chang P-H, Li Z, Yu T-L, Munkhbayer S, Kuo T-H, Hung Y-C*, et al.* "Sorptive Removal of Tetracycline from Water by Palygorskite." *Journal of Hazardous Materials* **2009**, *165*(1-3):148-155; doi:10.1016/j.jhazmat.2008.09.113.

Chang S, Waite TD, Ong PEA, Schafer AI, and Fane AG. "Assessment of trace estrogenic contaminants removal by coagulant addition, powdered activated carbon adsorption and powdered activated carbon/microfiltration processes." *Journal of Environmental Engineering* **2004**, *130*(7):736-742; doi:10.1061/(ASCE)0733-9372(2004)130:7(736).

Chang S, Waite TD, Schafer AI, and Fane AG. "Adsorption of the Endocrine-Active Compound Estrone on Microfiltration Hollow Fiber Membranes." *Environmental Science & Technology* **2003**, *37*(14):3158-3163; doi:10.1021/es0261574.

Chang SJ, Jang NJ, Yeo YH, and Kim IS. "Fate and transport of endocrine-disrupting compounds (oestrone and 17β-oestradiol) in a membrane bio-reactor used for water re-use." *Water Science and Technology* **2006**, *53*(9):123-130.

Chapin A, Rule A, Gibson K, Buckley T, and Schwab K. "Airborne multidrug-resistant bacteria isolated from a concentrated swine feeding operation." *Environmental Health Perspectives* **2005**, *113*(2):137-142; doi:10.1289/ehp.7473.

Chapman AI. "Pharmaceutical Reverse Distributor Survey, Final Report." Local Hazardous Waste Management Program in King County, SQG-PHARM-2(12/03), Seattle, WA, December, 2003, 65 pp; www.govlink.org/hazwaste/publications/ReverseDistributorSurvey.pdf.

Chapman H. "Removal of endocrine disruptors by tertiary treatments and constructed wetlands in subtropical Australia." *Water Science and Technology* **2003**, *47*(9):151-156.

Chapman H, Leusch F, and Tan B. "Risk management of chemicals in recycled water." in *Purified recycled water for drinking: The technical issues*, Gardner T, Yeates C and Shaw R, Eds., Queensland Water Commission; Brisbane, Australia, 2008, pp 129-172.

Chapman HF, Tan BLL, and Leusch FDL. "Endocrine disruptors in sewage effluent in South-East Queensland, Australia." in *Optimizing Contaminant Trackdown: Focusing on Wastewater Treatment Plants and Related Systems: a Compendium for Practitioners of Contaminant Trackdown Efforts*, New York Academy of Sciences; New York, NY, 2007, Chapter 9, pp 121-151; http://www.nyas.org/programs/harbor/contaminant_0208.pdf#page=121.

Chapman PM. "Whole effluent toxicity testing-usefulness, level of protection, and risk assessment." *Environmental Toxicology and Chemistry* **2000**, *19*(1):3-13; doi:10.1897/1551-5028(2000)019<0003:WETTUL>2.3.CO;2.

Chapman PM. "Emerging substances - Emerging problems?" *Environmental Toxicology and Chemistry* **2006**, *25*(6):1445-1447; doi:10.1897/06-025.1.

Chapman PM, Caldwell RS, and Chapman PF. "A warning: NOECs are inappropriate for regulatory use." *Environmental Toxicology and Chemistry* **1996**, *15*(2):77-79.

Chapman S. "The Controlled Drugs and Substances Act: Schedules and Structures Isomer Design." **2005**, http://isomerdesign.com/Cdsa/poster.php.

Chatzitakis A, Berberidou C, Paspaltsis I, Kyriakou G, Sklaviadis T, and Poulios I. "Photocatalytic degradation and drug activity reduction of Chloramphenicol." *Water Research* **2008**, *42*(1-2):386-394; doi:10.1016/j.watres.2007.07.030.

Chee-Sanford JC, Aminov RI, Krapac IJ, Garrigues-Jeanjean N, and Mackie RI. "Occurrence and Diversity of Tetracycline Resistance Genes in Lagoons and Groundwater Underlying Two Swine Production Facilities." *Applied and Environmental Microbiology* **2001**, *67*(4):1494-1502; doi:10.1128/aem.67.4.1494-1502.2001.

Chee-Sanford JC, Mackie RI, Koike S, Krapac IG, Lin Y-F, Yannarell AC*, et al.* "Fate and Transport of Antibiotic Residues and Antibiotic Resistance Genes following Land Application of Manure Waste." *Journal of Environmental Quality* **2009**, *38*(3):1086-1108; doi:10.2134/jeq2008.0128.

Chefetz B, Mualem T, and Ben-Ari J. "Sorption and mobility of pharmaceutical compounds in soil irrigated with reclaimed wastewater." *Chemosphere* **2008**, *73*(8):1335-1343; doi:10.1016/j.chemosphere.2008.06.070.

Chelliapan S, Wilby T, and Sallis PJ. "Performance of an up-flow anaerobic stage reactor (UASR) in the treatment of pharmaceutical wastewater containing macrolide antibiotics." *Water Research* **2006**, *40*(3): 507-516; doi:10.1016/j.watres.2005.11.020.

ChemExper "ChemExper Chemical Directory." 2008; http://www.chemexper.com/.

Chemical Substances "Chemical Substances in Batch 2 of the Challenge." Web Page maintained by Government of Canada 2008, http://www.chemicalsubstanceschimiques.gc.ca/challenge-defi/batch-lot_2_e.html#ReleaseofDraft.

ChemSec "The REACH SIN* List (*Substitute It Now!)." Web Page maintained by International Chemical Secretariat (ChemSec) 2009, http://www.chemsec.org/list/.

Chen C-Y, Wen T-Y, Wang G-S, Cheng H-W, Lin Y-H, and Lien G-W. "Determining estrogenic steroids in Taipei waters and removal in drinking water treatment using high-flow solid-phase extraction and liquid chromatography/tandem mass spectrometry." *Science of the Total Environment* **2007**, *378*(3):352-365; doi:10.1016/j.scitotenv.2007.02.038.

Chen D, Zeng X, Sheng Y, Bi X, Gui H, Sheng G*, et al.* "The concentrations and distribution of polycyclic musks in a typical cosmetic plant." *Chemosphere* **2007**, *66*(2):252-258; doi:10.1016/j.chemosphere.2006.05.024.

Chen H, Hu J, Yang J, Wang Y, Xu H, Jiang Q*, et al.* "Generation of a Fluorescent Transgenic Zebrafish for Detection of Environmental Estrogens." *Aquatic Toxicology* **2009**, *In press*; doi:10.1016/j.aquatox.2009.09.015.

Chen H, Talaty NN, Takats Z, and Cooks RG. "Desorption Electrospray Ionization Mass Spectrometry for High-Throughput Analysis of Pharmaceutical Samples in the Ambient Environment." *Analytical Chemistry* **2005**, *77*(21):6915-6927; doi:10.1021/ac050989d.

Chen H, Xia Z, Pedersen-Bjergaard S, Svensmark B, and Lauritsen FR. "Analysis of Semivolatile Pharmaceuticals and Pollutants in Organic Micro Extracts Using Hot Cell Membrane Inlet Mass Spectrometry." *Analytical Chemistry* **2009**, *81*(10):4010-4014; doi:10.1021/ac900437t.

Chen H-C. "Liquid chromatography-tandem mass spectrometry in trace analysis of selected emerging contaminants -Method development and applications." Doctoral Dissertation, 2008. 143 pp; http://thesis.lib.ncu.edu.tw/ETD-db/ETD-search/view_etd?URN=92243007.

Chen H-C, Wang P-L, and Ding W-H. "Using liquid chromatography-ion trap mass spectrometry to determine pharmaceutical residues in Taiwanese rivers and wastewaters." *Chemosphere* **2008**, *72*(6):863-869; doi:10.1016/j.chemosphere.2008.04.005.

Chen H-C, Wang S-P, and Ding W-H. "Determination of fluorescent whitening agents in environmental waters by solid-phase extraction and ion pair liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2006**, *1102*(1-2):135-142; doi:10.1016/j.chroma.2005.10.025.

Chen J, Ahn KC, Gee NA, Gee SJ, Hammock BD, and Lasley BL. "Antiandrogenic properties of parabens and other phenolic containing small molecules in personal care products." *Toxicology and Applied Pharmacology* **2007**, *221*(3):278-284; doi:10.1016/j.taap.2007.03.015.

Chen J, Ahn KC, Gee NA, Mohamed MI, Duleba AJ, Zhao L*, et al.* "Triclocarban enhances testosterone action: A new type of endocrine disruptor?" *Endocrinology* **2008**, *149*(3):1173-1179; doi:10.1210/en.2007-1057.

Chen J, Lichwa J, Snehota M, Mohanty S, and Ray C. "Determination of hormones and non-ionic surfactant degradation products in small-volume aqueous samples from soil columns using LC-ESI-MS-MS and GC-MS." *Chromatographia* **2006**, *64*(7-8):413-418; doi:10.1365/s10337-006-0036-2.

Chen L, Zeng Q, Wang H, Su R, Xu Y, Zhang X*, et al.* "On-line coupling of dynamic microwave-assisted extraction to solid-phase extraction for the determination of sulfonamide antibiotics in soil." *Analytica Chimica Acta* **2009**, *648*(2):200-206; doi:10.1016/j.aca.2009.07.010.

Chen L, Zhang X, Sun L, Xu Y, Zeng Q, Wang H*, et al.* "Fast and Selective Extraction of Sulfonamides from Honey Based on Magnetic Molecularly Imprinted Polymer." *Journal of Agricultural and Food Chemistry* **2009**, *57*(21):10073-10080; doi:10.1021/jf902257d.

Chen M, Ohman K, Amatya PL, Metcalfe C, Miao X-S, Ikonomou MG*, et al.*, "Pharmaceuticals and endocrine disruptors in wastewater treatment effluents and in the water supply system of Calgary, Alberta, Canada." *Western Canada Water*, Western Canada Water & Wastewater Association, 2005, 57 1: 31-39 pp; http://www.wcwwa.ca/UserFiles/File/WCW/05Spring.pdf.

Chen M, Ohman K, Metcalfe C, Ikonomou MG, Amatya PL, and Wilson J. "Pharmaceuticals and endocrine disruptors in wastewater treatment effluents and in the water supply system of Calgary, Alberta, Canada." *Water Quality Research Journal of Canada* **2006**, *41*(4):351-364.

Chen W-R and Huang C-H. "Transformation of Tetracyclines Mediated by Mn(II) and Cu(II) Ions in the Presence of Oxygen." *Environmental Science & Technology* **2009**, *43*(2):401-407; doi:10.1021/es802295r.

Chen X and Bester K. "Determination of organic micro-pollutants such as personal care products, plasticizers and flame retardants in sludge." *Analytical and Bioanalytical Chemistry* **2009**, *395*(6):1877-1884; doi:10.1007/s00216-009-3138-5.

Chen X and Hopke PK. "A chamber study of secondary organic aerosol formation by linalool ozonolysis." *Atmospheric Environment* **2009**, *43*(25):3935-3940; doi:10.1016/j.atmosenv.2009.04.033.

Chen X and Hu J. "Degradation of 17β-estradiol and its Conjugates: Effects of Initial Concentration and MLSS Concentration." *Process Biochemistry* **2009**, *44*(12):1330-1334; doi:10.1016/j.procbio.2009.07.007.

Chen X, Pauly U, Rehfus S, and Bester K. "Removal of personal care compounds from sewage sludge in reed bed container (lysimeter) studies -- Effects of macrophytes." *Science of the Total Environment* **2009**, *407*(21):5743-5749; doi:10.1016/j.scitotenv.2009.07.023.

Chen XM, da Silva DR, and Martínez-Huitle CA. "Application of advanced oxidation processes for removing salicylic acid from synthetic wastewaters." *Chinese Chemical Letters* **2009**, *In Press*; doi:10.1016/j.cclet.2009.08.001.

Chen Y, Hu C, Hu X, and Qu J. "Indirect Photodegradation of Amine Drugs in Aqueous Solution under Simulated Sunlight."

Environmental Science & Technology **2009**, *43*(8):2760-2765; doi:10.1021/es803325j.

Chen Y, Hu C, Qu JH, and Yang M. "Photodegradation of tetracycline and formation of reactive oxygen species in aqueous tetracycline solution under simulated sunlight irradiation." *Journal of Photochemistry and Photobiology A: Chemistry* **2008**, *197*(1):81-87; doi:10.1016/j.jphotochem.2007.12.007.

Chen Y, Rosazza JPN, Reese CP, Chang HY, Nowakowski MA, and Kiplinger JP. "Microbial models of soil metabolism: biotransformations of danofloxacin." *Journal of Industrial Microbiology & Biotechnology* **1997**, *19*(5):378-384; doi:10.1038/sj.jim.2900409.

Chen Z, Pavelic P, Dillon P, and Naidu R. "Determination of caffeine as a tracer of sewage effluent in natural waters by on-line solid-phase extraction and liquid chromatography with diode-array detection." *Water Research* **2002**, *36*(19):4830-4838; doi:10.1016/S0043-1354(02)00221-X.

Chen Z, Ren N, Wang A, Zhang Z-P, and Shi Y. "A novel application of TPAD-MBR system to the pilot treatment of chemical synthesis-based pharmaceutical wastewater." *Water Research* **2008**, *42*(13):3385-3392; doi:10.1016/j.watres.2008.04.020.

Cheng C-y. "Determination of Triclosan in Water Samples by On-line Derivatizaion coupled with Gas Chromatography-Mass Spectrometry." Masters Dissertation, 2008. http://thesis.lib.ncu.edu.tw/ETD-db/ETD-search/view_etd?URN=962203003.

Cheng Y, Li HL, Wang HF, Sun HF, Liu YF, Peng SX*, et al.* "Inhibition of nicotine-DNA adduct formation in mice by six dietary constituents." *Food and Chemical Toxicology* **2003**, *41*(7):1045-1050; doi:10.1016/S0278-6915(03)00032-2.

Chenxi W, Spongberg AL, and Witter JD. "Determination of the persistence of pharmaceuticals in biosolids using liquid-chromatography tandem mass spectrometry." *Chemosphere* **2008**, *73*(4):511-518; doi:10.1016/j.chemosphere.2008.06.026.

Cherlet M, Croubels S, and De Backer P. "Quantitative determination of chlortetracycline content in animal plasma at controlled keto-enol tautomerism by liquid chromatography-electrospray ionization-tandem mass spectrometry." *Journal of Chromatography A* **2006**, *1102*(1-2):116-124; doi:10.1016/j.chroma.2005.10.014.

Cherlet M, De Backer P, and Croubels S. "Control of the keto-enol tautomerism of chlortetracycline for its straightforward quantitation in pig tissues by liquid chromatography-electrospray ionization tandem mass spectrometry." *Journal of Chromatography A* **2006**, *1133*(1-2):135-141; doi:10.1016/j.chroma.2006.08.008.

Chèvre N, Maillard E, Loepfe C, and Becker-van Slooten K. "Determination of water quality standards for chemical mixtures: Extension of a methodology developed for herbicides to a group of insecticides and a group of pharmaceuticals." *Ecotoxicology and Environmental Safety* **2008**, *71*(3):740-748; doi:10.1016/j.ecoenv.2008.02.009.

Chiaia AC, Banta-Green C, and Field J. "Eliminating Solid Phase Extraction with Large-Volume Injection LC/MS/MS: Analysis of Illicit and Legal Drugs and Human Urine Indicators in US Wastewaters." *Environmental Science & Technology* **2008**, *42*(23):8841-8848; doi:10.1021/es802309v.

Chiaia Hernandez AC. "Large volume (1,800 µL) injection HPLC/MS/MS for the quantitative determination of illicit drugs and human urinary biomarkers in municipal wastewater." Masters Dissertation, Oregon State University, Science, 2008. 89 pp; http://hdl.handle.net/1957/9128
http://ir.library.oregonstate.edu/dspace/handle/1957/9128.

Chiayvareesajja S, Chandumpai A, Theapparat Y, and Faroongsarng D. "The complete analysis of oxytetracycline pharmacokinetics in farmed Pacific white shrimp (Litopenaeus vannamei)." *Journal of Veterinary Pharmacology and Therapeutics* **2006**, *29*(5):409-414; doi:10.1111/j.1365-2885.2006.00785.x.

Chien C, Marriott JL, and Ozanne-Smith J. "Unintentional ingestion of over the counter medications in children less than 5 years." *Journal of Paediatrics and Child Health* **2003**, *39*(4):264-269.

Childers SR. "Pharmacology: How Cannabis Acts." *Science* **2000**, *288*(5473):1972; doi:10.1126/science.288.5473.1972.

Chimchirian RF, Suri RPS, and Fu H. "Free synthetic and natural estrogen hormones in influent and effluent of three municipal wastewater treatment plants." *Water Environment Research* **2007**, *79*(9):969-974; doi:10.2175/106143007X175843.

Chiron S, Minero C, and Vione D. "Photodegradation processes of the Antiepileptic drug carbamazepine, relevant to estuarine waters." *Environmental Science & Technology* **2006**, *40*(19):5977-5983; doi:10.1021/es060502y.

Chitnis V, Chitnis D, Patil S, and Kant R. "Hospital effluent: A source of multiple drug-resistant bacteria." *Current Science* **2000**, *79*(7):989-991.

Chittiteeranon P, Soontaros S, and Pongsawasdi P. "Preparation and characterization of inclusion complexes containing fixolide, a synthetic musk fragrance and cyclodextrins." *Journal of Inclusion Phenomena and Macrocyclic Chemistry* **2007**, *57*(1-4 April):69-73; doi:10.1007/s10847-006-9219-6.

Chiu L, Cunningham L, Raible D, Rubel E, and Ou H. "Using the Zebrafish Lateral Line to Screen for Ototoxicity." *Journal of the Association for Research in Otolaryngology* **2008**, *9*(2):178-190; doi:10.1007/s10162-008-0118-y.

Chiu TY, Koh YKK, Paterakis N, Boobis AR, Cartmell E, Richards KH*, et al.* "The significance of sample mass in the analysis of steroid estrogens in sewage sludges and the derivation of partition coefficients in wastewaters." *Journal of Chromatography A* **2009**, *1216*(24):4923-4926; doi:10.1016/j.chroma.2009.04.019.

Cho AK. "Ice: A new dosage form of an old drug." *Science* **1990**, *249*(4969):631-634; doi:10.1126/science.249.4969.631.

Cho E-a. "Bioturbation as a Novel Method to Characterize the Toxicity of Aquatic Sediment." Doctoral Dissertation, North Carolina State University, Department of Environmental and Molecular Toxicology, Raleigh, NC, 2005. 153 pp; http://www.lib.ncsu.edu/theses/available/etd-02282005-111535/unrestricted/etd.pdf.

Choi J-H, Fukushi K, and Yamamoto K. "A submerged nanofiltration membrane bioreactor for domestic wastewater treatment: the performance of cellulose acetate nanofiltration membranes for long-term operation." *Separation and Purification Technology* **2007**, *52*(3):470-477; doi:10.1016/j.seppur.2006.05.027.

Choi K, Kim Y, Park J, Park CK, Kim M, Kim HS*, et al.* "Seasonal variations of several pharmaceutical residues in surface water and sewage treatment plants of Han River, Korea." *Science of the Total Environment* **2008**, *405*(1-3):120-128; doi:10.1016/j.scitotenv.2008.06.038.

Choi KJ, Kim SG, and Kim SH. "Removal of tetracycline and sulfonamide classes of antibiotic compound by powdered activated carbon." *Environmental Technology* **2008**, *29*(3):333 - 342; doi:10.1080/09593330802102223.

Choi K-J, Kim S-G, Kim C-W, and Kim S-H. "Determination of antibiotic compounds in water by on-line SPE-LC/MSD." *Chemosphere* **2007**, *66*(6):977-984; doi:10.1016/j.chemosphere.2006.07.037.

Choi K-J, Kim S-G, and Kim S-H. "Removal of antibiotics by coagulation and granular activated carbon filtration." *Journal of Hazardous Materials* **2008**, *151*(1):38-43; doi:10.1016/j.jhazmat.2007.05.059.

Choi K-J, Son H-J, and Kim S-H. "Ionic treatment for removal of sulfonamide and tetracycline classes of antibiotic." *Science of the Total Environment* **2007**, *387*(1-3):247-256; doi:10.1016/j.scitotenv.2007.07.024.

Chon S. 2008, "Acute ingestion of unknown drugs." The NY State Prison Centers Toxicology Letter, State University of New York, Upstate Medicial University, 1-5 pp; http://www.upstate.edu/poison/pdf/tox_newsletter/07_08toxnews.pdf.

Choong AMF, Teo SLM, Leow JL, Koh HL, and Ho PCL. "A preliminary ecotoxicity study of pharmaceuticals in the marine environment." *Journal of Toxicology and Environmental Health, Part A Current Issues* **2006**, *69*(21):1959-1970; doi:10.1080/15287390600751371.

Chou Y-J and Dietrich DR. "Interactions of nitromusk parent compounds and their amino-metabolites with the estrogen receptors of rainbow trout (Oncorhynchus mykiss) and the South African clawed frog (Xenopus laevis)." *Toxicology Letters* **1999**, *111*(1-2):27-36; doi:10.1016/S0378-4274(99)00168-X.

Chou Y-J and Dietrich DR. "Toxicity of nitromusks in early lifestages of South African clawed frog (Xenopus laevis) and zebrafish (Danio rerio)." *Toxicology Letters* **1999**, *111*(1-2):17-25.

Chow K-C. "Hsp70 (DnaK) - an evolution facilitator?" *Trends in Genetics* **2000**, *16*(11):484-485; doi:10.1016/S0168-9525(00)02105-3.

CHPA. "Safe Drug Disposal." Consumer Healthcare Products Association, 2009, http://www.chpa-info.org/governmentaffairs/Safe_Drug_Disposal.aspx.

Christen V, Oggier DM, and Fent K. "A Microtiter-Plate Based Cytochrome P4503A Activity Assay in Fish Cell Lines." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2632-2638; doi:10.1897/08-483.1.

Christensen AM, Faaborg-Andersen S, Ingerslev F, and Baun A. "Mixture and single-substance toxicity of selective serotonin reuptake inhibitors toward algae and crustaceans." *Environmental Toxicology and Chemistry* **2007**, *26*(1):85-91; doi:10.1897/06-219R.1.

Christensen AM, Ingerslev F, and Baun A. "Ecotoxicity of mixtures of antibiotics used in aquacultures." *Environmental Toxicology and Chemistry* **2006**, *25*(8):2208-2215; doi:10.1897/05-415R.1.

Christensen AM, Markussen B, Baun A, and Halling-Sørensen B. "Probabilistic environmental risk characterization of pharmaceuticals in sewage treatment plant discharges." *Chemosphere* **2009**, *77*(3):351-358; doi:10.1016/j.chemosphere.2009.07.018.

Christensen D. "Keeping bugs from pumping drugs - A new way to defeat antibiotic-resistant microbes?" *Science News* **2000**, *157*(February):110-111.

Christensen D. "Medicinal mimicry: Sometimes, placebos work but how?" *Science News* **2001**, *1597*(February):74-78.

Christensen FM. "Pharmaceuticals in the Environment--A Human Risk?" *Regulatory Toxicology and Pharmacology* **1998**, *28*(3):212-221; doi:10.1006/rtph.1998.1253.

Christenson T. "Fish on morphine: Protecting Wisconsin's natural resources through a comprehensive plan for proper disposal of pharmaceuticals." May, 2007, 56 pp; http://www.wislawyer.org/AM/TemplateRedirect.cfm?template=/CM/ContentDisplay.cfm&ContentID=64971.

Christenson T. "Comment: fish on morphine: protecting wisconsin's natural resources through a comprehensive plan for proper disposal of pharmaceuticals." *Wisconsin Law Review* **2008**, *141*.

Christian MS, Parker RM, Hoberman AM, Diener RM, and Api AM. "Developmental toxicity studies of four fragrances in rats." *Toxicology Letters* **1999**, *111*(1-2):169-174.

Christian MS, Parker RM, Hoberman AM, Diener RM, and Api AM. "Erratum to "Developmental toxicity studies of four fragrances in rats": [Toxicol. Lett. 111 (1-2) (1999) 169-174]." *Toxicology Letters* **2000**, *118*(1-2):117.

Christian S. "The chemistry of beauty - What's in all those beauty products? The truth isn't pretty." Sacramento News & Review, 2008, 14 August http://www.newsreview.com/sacramento/Content?oid=721266.

Christian T, Schneider RJ, Farber HA, Skutlarek D, Meyer MT, and Goldbach HE. "Determination of antibiotic residues in manure, soil, and surface waters." *Acta Hydrochimica et Hydrobiologica* **2003**, *31*(1):36-44.

Christiansen S, Scholze M, Dalgaard M, Vinggaard AM, Axelstad M, Kortenkamp A*, et al.* "Synergistic disruption of external male sex organ development by a mixture of four anti-androgens." *Environmental Health Perspectives* **2009**, *In press*; doi:10.1289/ehp.0900689.

Chu P-S, Lopez MI, Abraham A, El Said KR, and Plakas SM. "Residue Depletion of Nitrofuran Drugs and Their Tissue-Bound Metabolites in Channel Catfish (Ictalurus punctatus) after Oral Dosing." *Journal of Agricultural and Food Chemistry* **2008**, *56*(17):8030-8034; doi:10.1021/jf801398p.

Chu S and Metcalfe CD. "Analysis of paroxetine, fluoxetine and norfluoxetine in fish tissues using pressurized liquid extraction, mixed mode solid phase extraction cleanup and liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2007**, *1163*(1-2):112-118; doi:10.1016/j.chroma.2007.06.014.

Chu S and Metcalfe CD. "Simultaneous determination of triclocarban and triclosan in municipal biosolids by liquid chromatography tandem mass spectrometry." *Journal of Chromatography A* **2007**, *1164*(1-2):212-218; doi:10.1016/j.chroma.2007.07.024.

Chuanchuen R, Beinlich K, Hoang T, Becher A, Karkhoff-Schweizer R, and Schweizer H. "Cross-Resistance between Triclosan and Antibiotics in Pseudomonas aeruginosa Is Mediated by Multidrug Efflux Pumps: Exposure of a Susceptible Mutant Strain to Triclosan Selects nfxB Mutants Overexpressing MexCD-OprJ." *Antimicrobial Agents and Chemotherapy* **2001**, *45*(2):428-432; doi:10.1128/AAC.45.2.428-432.2001.

Chuanlai X, Cifang P, Kai H, Zhengyu J, and Wukang W. "Quantitative analysis of chloramphenicol residues in shrimp muscle tissues by chemiluminescent enzyme immunoassay." *Czech Journal of Food Sciences* **2005**, *23*(6):251-256.

Chuanlai X, Peng CF, Hao K, Jin ZY, and Wang WK. "Chemiluminescence enzyme immunoassay (CLEIA) for the determination of

chloramphenicol residues in aquatic tissues." *Luminescence* **2006**, *21*(2):126-128; doi:10.1002/bio.892.

Chumanee S, Sutthivaiyakit S, and Sutthivaiyakit P. "New Reagent for Trace Determination of Protein-Bound Metabolites of Nitrofurans in Shrimp Using Liquid Chromatography with Diode Array Detector." *Journal of Agricultural and Food Chemistry* **2009**, *57*(5):1752-1759; doi:10.1021/jf803423r.

Chun S, Lee J, Geyer R, and White DC. "Comparison of three extraction methods for 17β-estradiol in sand, bentonite, and organic-rich silt loam." *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants and Agricultural Wastes* **2005**, *40*(5):731-740.

Chun S, Lee J, Geyer R, White DC, and Raman DR. "Effect of agricultural antibiotics on the persistence and transformation of 17β-estradiol in a Sequatchie loam." *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants and Agricultural Wastes* **2005**, *40*:741-751; doi:10.1080/03601230500189691.

Chun S, Lee J, Radosevich M, White DC, and Geyer RI. "Influence of agricultural antibiotics and 17β-estradiol on the microbial community of soil." *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants and Agricultural Wastes* **2006**, *41*(6):923-935; doi:10.1080/03601230500189691.

Chung BY, Kim J-S, Lee MH, Lee KS, Hwang SA, and Cho JY. "Degradation of ampicillin in pig manure slurry and an aqueous ampicillin solution using electron beam irradiation." *Radiation Physics and Chemistry* **2009**, *78*(7-8):711-713; doi:10.1016/j.radphyschem.2009.03.051.

Chung H-H, Lee J-B, Chung Y-H, and Lee K-G. "Analysis of sulfonamide and quinolone antibiotic residues in Korean milk using microbial assays and high performance liquid chromatography." *Food Chemistry* **2009**, *113*(1):297-301; doi:10.1016/j.foodchem.2008.07.021.

Chung JI. "Gastrointestinal motility variation and oral drug absorption." Doctoral Dissertation, University of Michigan, 2008. 118 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2278930,FM=9,SEARCH=MD.Generic Search.

Cicek N, Londry K, Oleszkiewicz JA, Wong D, and Lee Y. "Removal of selected natural and synthetic estrogenic compounds in a Canadian full-scale municipal wastewater treatment plant." *Water Environment Research* **2007**, *79*(7):795-800; doi:10.2175/106143007X175744.

Ciereszko A, Babiak I, and Dabrowski K. "Efficacy of animal anti-fertility compounds against sea lamprey (Petromyzon marinus) spermatozoa." *Theriogenology* **2004**, *61*(6):1039-1050; doi:10.1016/j.theriogenology.2003.05.002.

Cimenti M, Hubberstey A, Bewtra JK, and Biswas N. "Alternative methods in tracking sources of microbial contamination in waters." *Water SA* **2007**, *33*(2):183-194.

Cimitile M. "Nanoparticles from sunscreens damage microbes." 24 March, 2009, http://www.environmentalhealthnews.org/ehs/news/nanoparticles-damage-microbes.

Ciniglia C, Cascone C, Giudice RL, Pinto G, and Pollio A. "Application of methods for assessing the geno- and cytotoxicity of Triclosan to C. ehrenbergii." *Journal of Hazardous Materials* **2005**, *122*(3):227-232; doi:10.1016/j.jhazmat.2005.03.002.

Cinquina A, Longo F, Anastasi G, Gianetti L, and Cozzani R. "Validation of a high-performance liquid chromatography method for the determination of oxytetracycline, tetracycline, chlortetracycline and doxycycline in bovine milk and muscle." *Journal of Chromatography A* **2001**, *987*(1-2):518-524; doi:10.1016/S0021-9673(02)01446-2.

Ciplet D. "An industry blowing smoke: 10 Reasons Why Gasification, Pyrolysis & Plasma Incineration are Not “Green Solutions”." gaia Global Anti-Incinerator Alliance, June, 2009, 40 pp; http://www.bredl.org/pdf2/StopIncinerationBlowingSmoke.pdf.

Ciríaco L, Anjo C, Correia J, Pacheco MJ, and Lopes A. "Electrochemical degradation of Ibuprofen on Ti/Pt/PbO_2 and Si/BDD electrodes." *Electrochimica Acta* **2009**, *54*(5):1464-1472; doi:10.1016/j.electacta.2008.09.022.

Cirimele V, Kintz P, Gosselin O, and Ludes B. "Clozapine dose-concentration relationships in plasma, hair and sweat specimens of schizophrenic patients." *Forensic Science International* **2000**, *107*(1-3):289-300; doi:10.1016/S0379-0738(99)00172-3.

Cirja M, Ivashechkin P, Schäffer A, and Corvini P. "Factors affecting the removal of organic micropollutants from wastewater in conventional treatment plants (CTP) and membrane bioreactors (MBR)." *Reviews in Environmental Science and Biotechnology* **2008**, *7*(1):61-78; doi:10.1007/s11157-007-9121-8.

Cirja M, Zuehlke S, Ivashechkin P, Hollender J, Schaffer A, and Corvini PFX. "Behavior of two differently radiolabelled 17α-ethinylestradiols continuously applied to a laboratory-scale membrane bioreactor with adapted industrial activated sludge." *Water Research* **2007**, *41*(19):4403-4412; doi:10.1016/j.watres.2007.06.022.

CIWMB "Household Hazardous Waste: Pharmaceutical Drug Waste." Web Page maintained by California Integrated Waste Management Board (CIWMB) 2008, http://www.ciwmb.ca.gov/HHW/PharmWaste/.

Claffey DJ and Ruth JA. "Amphetamine Adducts of Melanin Intermediates Demonstrated by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry." *Chemical Research in Toxicology* **2001**, *14*(9):1339-1344; doi:10.1021/tx0155303.

Clara M, Kreuzinger N, Strenn B, Gans O, and Kroiss H. "The solids retention time-a suitable design parameter to evaluate the capacity of wastewater treatment plants to remove micropollutants." *Water Research* **2005**, *39*(1):97-106; doi:10.1016/j.watres.2004.08.036.

Clara M, Strenn B, Ausserleitner M, and Kreuzinger N. "Comparison of the behaviour of selected micropollutants in a membrane bioreactor and a conventional wastewater treatment plant." *Water Science and Technology* **2004**, *50*(5):29-36.

Clara M, Strenn B, Gans O, and Kreuzinger N. "The elimination of selected pharmaceuticals in wastewater treatment - lab scale experiments with different sludge retention times." in *Water Resources Management II*, Brebbia CA, Ed., WIT Press; Southampton, UK, 2003, pp 227-236; doi:10.2495/WRM030221; http://library.witpress.com/pages/PaperInfo.asp?PaperID=2628.

Clara M, Strenn B, Gans O, Martinez E, Kreuzinger N, and Kroiss H. "Removal of selected pharmaceuticals, fragrances and endocrine disrupting compounds in a membrane bioreactor and conventional wastewater treatment plants." *Water Research* **2005**, *39*(19):4797-4807; doi:10.1016/j.watres.2005.09.015.

Clara M, Strenn B, and Kreuzinger N. "Carbamazepine as a possible anthropogenic marker in the aquatic environment: investigations on the behaviour of Carbamazepine in wastewater treatment and during groundwater infiltration." *Water Research* **2004**, *38*(4):947-954; doi:10.1016/j.watres.2003.10.058.

Clara M, Strenn B, Saracevic E, and Kreuzinger N. "Adsorption of bisphenol-A, 17β-estradiol and 17α-ethinylestradiole to sewage sludge." *Chemosphere* **2004**, *56*(9):843-851; doi:10.1016/j.chemosphere.2004.04.048.

Clark J, Summerton L, Smith E, Kampa E, Vidaurre R, and Touraud E. "Discussion Document on Eco-pharmacostewardship." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 59 pp; http://www.knappe-eu.org/fichiers/47-D5.1%20Ecopharmacostewardship%20disc%20doc.pdf.

Clark JH and Smith P. "Basic Principles of Green Chemistry." *Innovations in Pharmaceutical Technology* **2005**, *May*:94-97.

Clarke MJ, Peart J, Cagnani S, and Byron PR. "Adhesion of powders for inhalation: An evaluation of drug detachment from surfaces following deposition from aerosol streams." *Pharmaceutical Research* **2002**, *19*(3):322-329; doi:10.1023/A:1014451203619.

Clarke N, Routledge EJ, Garner A, Casey D, Benstead R, Walker D*, et al.* "Exposure to Treated Sewage Effluent Disrupts Reproduction and Development in the Seasonally Breeding Ramshorn Snail (Subclass: Pulmonata, Planorbarius corneus)." *Environmental Science & Technology* **2009**, *43*(6):2092-2098; doi:10.1021/es8020167.

Clay SA, Liu Z, Thaler R, and Kennouche H. "Tylosin sorption to silty clay loam soils, swine manure, and sand." *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants and Agricultural Wastes* **2005**, *40*(6):841-850; doi:10.1080/03601230500227533.

Clay W. 2004, "Testimony of William Clay, Deputy Administrator, Wildlife Services, Animal and Plant Health Inspection Service." US Department of Agriculture, http://republicans.resourcescommittee.house.gov/archives/ii00/archives/108/testimony/2004/williamclay.htm.

Clayton J. "Caste system of crayfish, courtesy of serotonin." BioMedNet, 1999.

Clayton TA, Baker D, Lindon JC, Everett JR, and Nicholson JK. "Pharmacometabonomic identification of a significant host-microbiome metabolic interaction affecting human drug metabolism." *Proceedings of the National Academy of Sciences* **2009**, *106*(34):14728-14733; doi:10.1073/pnas.0904489106.

Cleeve M, Williams L, Lodder H, and Smith J. "Extraction of pharmaceuticals from environmental water samples." *LC GC Europe*

2007, *S*(March):9.

Clement RE, Yang PW, and Koester CJ. "Environmental analysis." *Analytical Chemistry* **2001**, *73*(12):2761-2790; doi:10.1021/ac0103930.

Clements WH and Rohr JR. "Community responses to contaminants: using basic ecological principles to predict ecotoxicological effects." *Environmental Toxicology and Chemistry* **2009**, *28*(9):1789-1800; doi:10.1897/09-140.1.

Cleuvers M. "Aquatische Ökotoxikologie ausgewählter Arzneimittel - Algentest und akuter Daphnientest [Aquatic ecotoxicology of selected pharmaceutical agents - Algal and acute daphnia tests]." *Umweltwissenschaften und Schadstoff-Forschung* **2002**, *14*(2):85-89; doi:10.1065/uwsf2002.04.025.

Cleuvers M. "Aquatic ecotoxicity of pharmaceuticals including the assessment of combination effects." *Toxicology Letters* **2003**, *142*(3):185-194; doi:10.1016/S0378-4274(03)00068-7.

Cleuvers M. "Mixture toxicity of the anti-inflammatory drugs diclofenac, ibuprofen, naproxen, and acetylsalicylic acid." *Ecotoxicology and Environmental Safety* **2004**, *59*(3):309-315; doi:10.1016/S0147-6513(03)00141-6.

Cleuvers M. "Aquatic Ecotoxicity of Pharmaceuticals Including the Assessment of Combination Effects." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Cleuvers M. "Initial risk assessment for threeβ-blockers found in the aquatic environment." *Chemosphere* **2005**, *59*(2):199-205.

Cleuvers M. "Chronic mixture toxicity of pharmaceuticals to Daphnia – the example of nonsteroidal anti-inflammatory drugs." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 17, pp 277-284; doi:10.1007/978-3-540-74664-5_17; http://www.springerlink.com/content/w638v37548284286/?p=97dfb90332264725bf4ef8a85570afc6&pi=16.

Cline PV. "Comment on "Bioaccumulation of Pharmaceuticals and Other Anthropogenic Waste Indicators in Earthworms from Agricultural Soil Amended With Biosolid or Swine Manure"." *Environmental Science & Technology* **2009**, *43*(2):544; doi:10.1021/es8020759.

Clotfelter ED, Bell AM, and Levering KR. "The role of animal behaviour in the study of endocrine-disrupting chemicals." *Animal Behaviour* **2004**, *68*(4):665-676; doi:10.1016/j.anbehav.2004.05.004.

Clotfelter ED, O'Hare EP, McNitt MM, Carpenter RE, and Summers CH. "Serotonin decreases aggression via 5-HT1A receptors in the fighting fish Betta splendens." *Pharmacol Biochem Behavior* **2007**, *87*(2):222-231; doi:10.1016/j.pbb.2007.04.018.

Clotfelter ED and Rodriguez AC. "Behavioral changes in fish exposed to phytoestrogens." *Environmental Pollution* **2006**, *144*(3):833-839; doi:10.1016/j.envpol.2006.02.007.

Clouzot L, Marrot B, Doumenq P, and Roche N. "17α-Ethinylestradiol: An endocrine disrupter of great concern. Analytical methods and removal processes applied to water purification. A review." *Environmental Progress* **2008**, *27*(3):383-396; doi:10.1002/ep.10291.

Clubbs RL and Brooks BW. "Daphnia magna responses to a vertebrate estrogen receptor agonist and an antagonist: A multigenerational study." *Ecotoxicology and Environmental Safety* **2007**, *67*(3):385-398; doi:10.1016/j.ecoenv.2007.01.009.

Coats JR, Metcalf RL, Lu PY, Brown DD, Williams JF, and Hansen LG. "Model ecosystem evaluation of the environmental impacts of the veterinary drugs phenothiazine, sulfamethazine, clopidol, and diethylstilbestrol." *Environmental Health Perspectives* **1976**, *18*:167-179.

Cocero MJ, Sanz MT, and Fernández-Polanco F. "Study of alternatives for the design of a mobile unit for wastewater treatment by supercritical water oxidation." *Journal of Chemical Technology and Biotechnology* **2001**, *76*(3):257-264; doi:10.1002/jctb.372.

Cody JT. "Enantiomeric composition of amphetamine and methamphetamine derived from the precursor compound famprofazone." *Forensic Science International* **1996**, *80*(3):189-199; doi:10.1016/0379-0738(96)01910-X.

Coe TS, Hamilton PB, Hodgson D, Paull GC, Stevens JR, Sumner K, *et al.* "An Environmental Estrogen Alters Reproductive Hierarchies, Disrupting Sexual Selection in Group-Spawning Fish." *Environmental Science & Technology* **2008**, *42*(13):5020-5025; doi:10.1021/es800277q.

Coe TS, Hamilton PB, Hodgson D, Paull GC, and Tyler CR. "Parentage Outcomes in Response to Estrogen Exposure are Modified by Social Grouping in Zebrafish." *Environmental Science & Technology* **2009**, (43):21; doi:10.1021/es902302u.

Coelhan M, Bromig KH, Glas K, and Roberts AL. "Determination and Levels of the Biocide ortho-Phenylphenol in Canned Beers from Different Countries." *Journal of Agricultural and Food Chemistry* **2006**, *54*(16):5731-5735; doi:10.1021/jf060743p.

Coelho AD, Sans C, Agüera A, Gómez MJ, Esplugas S, and Dezotti M. "Effects of ozone pre-treatment on diclofenac: Intermediates, biodegradability and toxicity assessment." *Science of the Total Environment* **2009**, *407*(11):3572-3578; doi:10.1016/j.scitotenv.2009.01.013.

Coetsier C, Lin LM, Roig B, and Touraud E. "Integrated approach to the problem of pharmaceutical products in the environment: an overview." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1163-1166; doi:10.1007/s00216-006-0840-4.

Coetsier CM, Spinelli S, Lin L, Roig B, and Touraud E. "Discharge of pharmaceutical products (PPs) through a conventional biological sewage treatment plant: MECs vs PECs?" *Environment International* **2009**, *35*(5):787-792; doi:10.1016/j.envint.2009.01.008.

Cohen E. "Drugs found in tap water." CNN, Video (4':22"), 2008.

Cohen G. "First, do no harm." presented at Designing the 21st Century Hospital: Environmental Leadership for Healthier Patients and Facilities, September, 2006; http://www.premierinc.com/quality-safety/tools-services/safety/topics/construction/downloads/designing-21st-century-hospital-2006.pdf.

Cohen J, "Medications side effects: Potent drugs at potent doses cause an epidemic of avoidable side effects." *Life Extension*, March, 2003, March 46-68 pp.

Cohen PA. "American Roulette — Contaminated Dietary Supplements." *New England Journal of Medicine* **2009**, *361*(16):1523-1525; doi:10.1056/nejmp0904768.

Cokgor EU, Alaton IA, Karahan O, Dogruel S, and Orhon D. "Biological treatability of raw and ozonated penicillin formulation effluent." *Journal of Hazardous Materials* **2004**, *116*(1-2):159-166; doi:10.1016/j.jhazmat.2004.08.011.

Cokgor EU, Arslan-Alaton I, Karahan O, Dogruel S, and Orhon D. "Biodegradability improvement of penicillin formulation effluent by ozonation." *Fresenius Environmental Bulletin* **2004**, *13*(10, SI):1053-1056.

Cokgor EU, Karahan O, Arslan-Alaton I, Meric S, Saruhan H, and Orhon D. "Effect of perozonation on biodegradability and toxicity of a penicillin formulation effluent." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2006**, *41*(9):1887-1897.

Cokgor EU, Karahan O, Arslan-Alaton I, Saruhan H, and Orhon D. "Biological treatability of raw and ozonated synthetic penicillin formulation effluent." *Water Science and Technology* **2005**, *52*(10-11):89-96.

Cokgor EU, Karahan O, and Orhon D. "The effect of mixing pharmaceutical and tannery wastewaters on the biodegradation characteristics of the effluents." *Journal of Hazardous Materials* **2008**, *156*(1-3):292-299; doi:10.1016/j.jhazmat.2007.12.037.

Colburn T, Dumanoski D, and Meyers JP. "Our Stolen Future: Are we threatening our fertility, intelligence, and survival? A scientific detective story." New York, NY, Penguin Books, 1996, 320 pp; http://www.amazon.com/Our-Stolen-Future-Threatening-Intelligence/dp/0452274141.

Colburn T, Dumanoski D, and Myers JP. "Our Stolen Future: Are we threatening our fertility, intelligence, and survival? A scientific detective story." New York, NY, Penguin Books, 1996, 320 pp; http://www.amazon.com/Our-Stolen-Future-Threatening-Intelligence/dp/0452274141.

Cole EC, Addison RM, Rubino JR, Leese KE, Dulaney PD, Newell MS*, et al.* "Investigation of antibiotic and antibacterial agent cross-resistance in target bacteria from homes of antibacterial product users and nonusers." *Journal of Applied Microbiology* **2003**, *95*(4):664-676; doi:10.1046/j.1365-2672.2003.02022.x.

Coleman HM, Abdullah MI, Eggins BR, and Palmer FL. "Photocatalytic degradation of 17β-oestradiol, oestriol and 17α-ethynyloestradiol in water monitored using fluorescence spectroscopy." *Applied Catalysis B: Environmental* **2005**, *55*(1):23-30; doi:10.1016/j.apcatb.2004.07.004.

Coleman HM, Khan SJ, Watkins G, and Stuetz RM. "Fate and analysis of endocrine disrupting chemicals in some sewage treatment plants in Australia." *Water Science and Technology* **2008**, *58*(11):2187-2194.

Coleman HM, Routledge EJ, Sumpter JP, Eggins BR, and Byrne JA. "Rapid loss of estrogenicity of steroid estrogens by UVA photolysis and photocatalysis over an immobilised titanium dioxide catalyst." *Water Research* **2004**, *38*(14-15):3233-3240; doi:10.1016/j.watres.2004.04.021.

Coleman HM, Troester M, Khan SJ, McDonald JA, Watkins G, and Stuetz RM. "Assessment of trace organic chemical removal by a membrane bioreactor using gas chromatography-mass spectrometry and a yeast screen bioassay." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2537-2545; doi:10.1897/08-531.1.

Collier AC. "Pharmaceutical Contaminants in Potable Water: Concerns for Pregnant Women and Children." *EcoHealth Journal* **2007**, *4*(2):164-171; doi:10.1007/s10393-007-0105-5.

Collignon P, Powers John H, Chiller TM, Aidara-Kane A, and Aarestrup FM. "Food Safety: World Health Organization Ranking of Antimicrobials According to Their Importance in Human Medicine: A Critical Step for Developing Risk Management Strategies for the Use of Antimicrobials in Food Production Animals." *Clinical Infectious Diseases* **2009**, *49*(1):132-141; doi:10.1086/599374.

Collins FS, Gray GM, and Bucher JR. "TOXICOLOGY: Transforming Environmental Health Protection." *Science* **2008**, *319*(5865):906-907; doi:10.1126/science.1154619.

Collins G, McHugh S, Connaughton S, Enright AM, Kearney A, Scully C*, et al.* "New low-temperature applications of anaerobic wastewater treatment." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2006**, *41*(5):881-895; doi:10.1080/10934520600614504.

Collins T. "Toward sustainable chemistry." *Science* **2001**, *291*(5501):48-49; doi:10.1126/science.291.5501.48.

Colman JR, Baldwin D, Johnson LL, and Scholz NL. "Effects of the synthetic estrogen, 17α-ethinylestradiol, on aggression and courtship behavior in male zebrafish (Danio rerio)." *Aquatic Toxicology* **2009**, *91*(4):346-354; doi:10.1016/j.aquatox.2008.12.001.

Colucci MS, Bork H, and Topp E. "Persistence of estrogenic hormones in agricultural soils: I. 17β-estradiol and estrone." *Journal of Environmental Quality* **2001**, *30*(6):2070-2076.

Colucci MS and Topp E. "Persistence of estrogenic hormones in agricultural soils: II. 17α-ethynylestradiol." *Journal of Environmental Quality* **2001**, *30*(6):2077-2080.

Colucci MS and Topp E. "Dissipation of part-per-trillion concentrations of estrogenic hormones from agricultural soils." *Canadian Journal of Soil Science* **2002**, *82*(3):335-340.

Coma A, Modamio P, Lastra CF, Bouvy ML, and Marino EL. "Returned medicines in community pharmacies of Barcelona, Spain." *Pharmacy World and Science* **2007**, *30*:272-277; doi:10.1007/s11096-007-9177-0.

Comeau F, Surette C, Brun GL, and Losier R. "The occurrence of acidic drugs and caffeine in sewage effluents and receiving waters from three coastal watersheds in Atlantic Canada." *Science of the Total Environment* **2008**, *396*(2-3):132-146; doi:10.1016/j.scitotenv.2008.02.031.

Comerton AM, Andrews RC, and Bagley DM. "The Influence of Natural Organic Matter and Cations on the Rejection of Endocrine Disrupting and Pharmaceutically Active Compounds by Nanofiltration." *Water Research* **2009**, *43*(3):613-622; doi:10.1016/j.watres.2008.11.003.

Comerton AM, Andrews RC, and Bagley DM. "Practical overview of analytical methods for endocrine-disrupting compounds, pharmaceuticals and personal care products in water and wastewater." *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences* **2009**, *367*(1904):3923-3939; doi:10.1098/rsta.2009.0111.

Comerton AM, Andrews RC, Bagley DM, and Hao C. "The rejection of endocrine disrupting and pharmaceutically active compounds by NF and RO membranes as a function of compound and water matrix properties." *Journal of Membrane Science* **2008**, *313*(1-2):323-335.

Comerton AM, Andrews RC, Bagley DM, and Yang P. "Membrane adsorption of endocrine disrupting compounds and pharmaceutically active compounds." *Journal of Membrane Science* **2007**, *303*(1-2):267-277; doi:10.1016/j.memsci.2007.07.025.

Commission of the European Communities. "COMMUNICATION FROM THE COMMISSION on the precautionary principle."

Commission of the European Communities, Brussels, Belgium, 2 February, 2000, 29 pp; http://ec.europa.eu/dgs/health_consumer/library/pub/pub07_en.pdf.

Committee for Medicinal Products for Human Use CHMP. "Guideline on the environmental risk assessment of medicinal products for human use." European Medicines Agency, London, 1 June, 2006, 12 pp; http://www.emea.europa.eu/pdfs/human/swp/444700en.pdf.

Committee for Medicinal Products for Veterinary Use CVMP. "Guideline on environmental impact assessment for veterinary medicinal products – in support of the VICH guidelines GL6 and GL38." European Medicines Agency, London, 18 January, 2006, 59 pp.

Committee on Hormonally Active Agents in the Environment, Board on Environmental Studies and Toxicology, Commission on Life Sciences, and National Research Council. "Hormonally Active Agents in the Environment." The National Academies Press, 1999, 452 pp; http://books.nap.edu/books/0309064198/html.

Committee on Human Services and Rural Health Policy. 2009, "A Bill for an Act Relating to pharmaceutical take-back programs; appropriating money; and declaring an emergency." 7 pp; http://landru.leg.state.or.us/09reg/measures/sb0500.dir/sb0598.intro.html.

Committee on Risk Assessment of Hazardous Air Pollutants, Commission on Life Sciences, and National Research Council. "Science and Judgment in Risk Assessment." Washington, DC, National Academy Press, 1994, 672 pp; http://books.nap.edu/catalog/2125.html.

Committee on Sustainable Underground Storage of Recoverable Water and National Research Council. "Prospects for Managed Underground Storage of Recoverable Water." Washington, DC, The National Academies Press, 2008, 350 pp; http://www.nap.edu/catalog.php?record_id=12057.

Committee on the Human Dimension of Global Change, Divcision of Behavior and Social Sciences and Education, and National Research Council. "Public participation in environmental assessment and decision making." Washington, DC, The National Academies Press, 2008; http://books.nap.edu/catalog.php?record_id=12434&utm_medium=etmail&utm_source=National%20Academies%20Press&utm_campaign=New+from+NAP+8.26.08&utm_content=Downloader&utm_term=.

Committee on Toxicants and Pathogens in Biosolids Applied to Land, Board on Environmental Studies and Toxicology, Division on Earth and Life Studies, and National Research Council. "Biosolids applied to land: Advancing standards and practices." Washington, DC, The National Academies Press, 2002, 368 pp; http://www.nap.edu/books/0309084865/html.

Committee on Toxicity Testing and Assessment of Environmental Agents and National Research Council. "Toxicity Testing in the 21st Century: A Vision and a Strategy." The National Academies Press, 2008; http://books.nap.edu/catalog.php?record_id=11970.

Committee on Transportation and Infrastructure and Subcommittee on Water Resources and Environment. "Emerging Contaminants in U.S. Waters." U.S. House of Representatives, Washington, DC, 18 September 2008. 7 pp; http://transportation.house.gov/hearings/hearingDetail.aspx?NewsID=742.

Committee on Water Quality Improvement for the Pittsburgh Region and National Research Council. "Regional cooperation for water quality improvement in Southwestern Pennsylvania." Washington, DC, The National Academies Press, 2005, 290 pp; http://www.nap.edu/catalog/11196.html.

Comoretto L and Chiron S. "Comparing pharmaceutical and pesticide loads into a small Mediterranean river." *Science of the Total Environment* **2005**, *349*(1-3):201-210; doi:10.1016/j.scitotenv.2005.01.036.

Cone EJ. "Ephemeral profiles of prescription drug and formulation tampering: Evolving pseudoscience on the Internet." *Drug Alcohol Dependence* **2006**, *83*(Supplement 1):S31-S39.

Cone M. "One big drug test: Analyzing a city's sewage can put a number on its vices." Los Angeles Times, 2008, 23 June http://www.latimes.com/news/local/la-me-sewer23-2008jun23,0,1999511,full.story.

Cone T. "Sunscreen saves fruits, vegetables from burning." Associated Press, 2008, Associated Press, 28 July http://www.purfresh.com/library/media/july2008/072808portfolio.com.pdf.

Congressional Research Service (Content source); Peter Saundry (Topic Editor). "Pharmaceuticals in drinking water." in *Enclyclopedia of Earth*, Cleveland CJ, Ed., (Washington, D.C.: Environmental Information Coalition, National Council for Science and the Environment). [Published in the Encyclopedia of Earth October 6, 2009; Retrieved October 7, 2009]; 2009, pp 3; http://www.eoearth.org/article/Pharmaceuticals_in_drinking_water.

Conkle JL, White JR, and Metcalfe CD. "Reduction of pharmaceutically active compounds by a lagoon wetland wastewater treatment system in Southeast Louisiana." *Chemosphere* **2008**, *73*(11):1741-1748; doi:10.1016/j.chemosphere.2008.09.020.

Conley JM, Symes SJ, Kindelberger SA, and Richards SM. "Rapid liquid chromatography-tandem mass spectrometry method for the determination of a broad mixture of pharmaceuticals in surface water." *Journal of Chromatography A* **2008**, *1185*(2):206-215; doi:10.1016/j.chroma.2008.01.064.

Conley JM, Symes SJ, Schorr MS, and Richards SM. "Spatial and temporal analysis of pharmaceutical concentrations in the upper Tennessee River basin." *Chemosphere* **2008**, *73*(8):1178-1187; doi:10.1016/j.chemosphere.2008.07.062.

Conn KE, Barber LB, Brown GK, and Siegrist RL. "Occurrence and fate of organic contaminants during onsite wastewater treatment." *Environmental Science & Technology* **2006**, *40*(23):7358-7366; doi:10.1021/es0605117.

Conners DE, Rogers ER, Armbrust KA, Kwon J-W, and Black MC. "Growth and development of tadpoles (Xenopus laevis) exposed to selective serotonin reuptake inhibitors, fluoxetine and sertraline, throughout metamorphosis." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2671-2676; doi:10.1897/08-493.1.

Connor TH and McDiarmid MA. "Preventing Occupational Exposures to Antineoplastic Drugs in Health Care Settings." *CA: A Cancer Journal for Clinicians* **2006**, *56*(6):354-365; doi:10.3322/canjclin.56.6.354.

Connor TH, Shults M, and Fraser MP. "Determination of the vaporization of solutions of mutagenic antineoplastic agents at 23 and 37°C using a desiccator technique." *Mutation Research/Genetic Toxicology and Environmental Mutagenesis* **2000**, *470*(1):85-92.

Conolly RB, Beck BD, and Goodman JI. "Stimulating research to improve the scientific basis of risk assessment." *Toxicological Sciences* **1999**, *49*(1):1-4.

Conrow J. "Down the drain: medicines and other chemicals are creating new headaches." *Sierra* **2002**, *November/December*:28-30.

Conroy C and Russell JC. "Medical examiner/coroner records: uses and limitations in occupational injury epidemiologic research." *Journal of Forensic Sciences* **1990**, *35*(4):932-937.

Conroy O, Quanrud DM, Ela WP, Wicke D, Lansey KE, and Arnold RG. "Fate of wastewater effluent hER-agonists and hER-antagonists during soil aquifer treatment." *Environmental Science & Technology* **2005**, *39*(7):2287-2293; doi:10.1021/es049490b.

Conroy O, Saez AE, Quanrud D, Ela W, and Arnold RG. "Changes in estrogen/anti-estrogen activities in ponded secondary effluent." *Science of the Total Environment* **2007**, *382*(2-3):311-323; doi:10.1016/j.scitotenv.2007.04.033.

Constable DJC, Dunn PJ, Hayler JD, Humphrey GR, Leazer JLJ, Linderman RJ*, et al.* "Key Green Chemistry research areas – a perspective from pharmaceutical manufacturers." *Green Chemistry* **2007**, *9*:411-420; doi:10.1039/b703488c.

Constan A. "Pharmaceuticals in the environment - Changing public perception and regulatory guidance." 2008.

Consumers Union Southwest Regional Office. "Animal Factories: Pollution and health threats to rural Texas." May, 2000, 30 pp; www.consumersunion.org/pdf/CAFOforweb.pdf.

Contractor RG, Foran CM, Li SF, and Willett KL. "Evidence of gender- and tissue-specific promoter methylation and the potential for ethinylestradiol-induced changes in Japanese medaka (Oryzias latipes) estrogen receptor and aromatase genes." *Journal of Toxicology and Environmental Health, Part A Current Issues* **2004**, *67*(1):1-2; doi:10.1080/15287390490253633.

Coogan MA. "Bioaccumulation of tricolcarban, triclosan, and methyl-triclosan in a north Texas wastewater treatment plant receiving stream and effects of triclosan on algal lipid synthesis." Doctoral Dissertation, University of North Texas, 2007. 40 pp; http://64.233.167.104/search?q=cache:TN0LgzjwdfYJ:digital.library.unt.edu/permalink/meta-dc-3986:1+daughton+disposal&hl=en&ct=clnk&cd=130&gl=us.

Coogan MA, Edziyie RE, La Point TW, and Venables BJ. "Algal bioaccumulation of triclocarban, triclosan, and methyl-triclosan in a North Texas wastewater treatment plant receiving stream." *Chemosphere* **2007**, *67*(10):1911-1918; doi:10.1016/j.chemosphere.2006.12.027.

Coogan MA and La Point TW. "Snail bioaccumulation of triclocarban, triclosan, and methyltriclosan in a North Texas, USA, stream affected by wastewater treatment plant runoff." *Environmental Toxicology and Chemistry* **2008**, *27*(8):1788-1793; doi:10.1897/07-374.1.

Cook A, Devine B, Rodriguez C, Roser D, Khan S, McGuinness N*, et al.* "Assessing the public health impacts of recycled water use: interim report 1." Department of Water, Government of Western Australia, Premier's Water Foundation, Project #017 05, 2008, 130 pp; http://portal.water.wa.gov.au/portal/page/portal/PlanningWaterFuture/PremiersWaterFoundation/Content/FundedProjects/PWF_UWA_01705_INTERIM_1.pdf.

Cook J. "Initial Prescription Limits (Phase III)." **2009**, 1 pp; http://www.maine.gov/dhhs/oms/index.shtml.

Cook R and Calabrese EJ. "The importance of hormesis to public health." *Environmental Health Perspectives* **2006**, *114*(111):1631-1635; doi:10.1289/ehp.8606.

Cooke MD. "Antibiotic resistance in coliform and faecal coliform bacteria from natural waters and effluents." *New Zealand Journal of Marine and Freshwater Research* **1976**, *10*(3):391-397.

Cooke R. "Study eyes overuse of antibacterial soap." Las Vegas Review Journal, 1998.

Cooney CM. "Science panel confirms low-dose estrogenic effects." *Environmental Science & Technology* **2000**, *34*(23):500A.

Cooney CM. "No human risks with pharmaceuticals in water." *Environmental Science & Technology* **2005**, *39*(19):397A.

Cooney CM. "Study detects trace levels of pharmaceuticals in U.S. drinking water." *Environmental Science & Technology* **2009**, *43*(3):551; doi:10.1021/es803457y.

Cooper ER, Siewicki TC, and Phillips K. "Preliminary risk assessment database and risk ranking of pharmaceuticals in the environment." *Science of the Total Environment* **2008**, *398*(1-3):26-33; doi:10.1016/j.scitotenv.2008.02.061.

Cooper WJ, Mezyk SP, Peller JR, Cole SK, Song W, Mincher BJ*, et al.* "Studies in Radiation Chemistry: Application to Ozonation and Other Advanced Oxidation Processes." *Ozone: Science & Engineering* **2008**, *30*(1):58 - 64; doi:10.1080/01919510701761112.

Cooperative Research Centre for Water Quality and Treatment. "Chemicals of Concern in Wastewater Treatment Plant Effluent: State of the Science in Australia." CRC for Water Quality and Treatment, Occasional Paper 8, 2007, 82 pp; http://www.waterquality.crc.org.au/publications/paper08_chemicals_wastewater_effluent.pdf.

Cooperative Research Centre for Water Quality and Treatment. "Organic Micropollutants in Water." CRC for Water Quality and Treatment, 2007, 32 pp; http://www.waterquality.crc.org.au/dwfacts/techfact_micropollutants.pdf.

Coors A, Jones PD, Giesy JP, and Ratte HT. "Assessing the elimination of estrogenic activity in advanced wastewater treatment with a reporter gene-based bioassay." *Water Science and Technology* **2004**, *50*(5):181-188.

Coppens I and Courtoy PJ. "The adaptative mechanisms of Trypanosoma brucei for sterol homeostasis in its different life-cycle environments." *Annual Review of Microbiology* **2000**, *54*:129-156; doi:10.1146/annurev.micro.54.1.12.

Corbel V, Stankiewicz M, Pennetier C, Fournier D, Stojan J, Girard E*, et al.* "Evidence for inhibition of cholinesterases in insect and mammalian nervous systems by the insect repellent deet." *BMC Biology* **2009**, *7*(1):47; doi:10.1186/1741-7007-7-47.

Corbitt TS, Sommer JR, Chemburu S, Ogawa K, Ista LK, Lopez GP*, et al.* "Conjugated Polyelectrolyte Capsules: Light-Activated Antimicrobial Micro "Roach Motels"." *ACS Applied Materials & Interfaces* **2009**, *1*(1):48-52; doi:10.1021/am800096q.

Cordova-Kreylos AL and Scow KM. "Effects of ciprofloxacin on salt marsh sediment microbial communities." *The International Society for Microbial Ecology Journal* **2007**, *1*(7):585-595; doi:10.1038/ismej.2007.71.

Cordy GE, Duran NL, Bouwer H, Rice RC, Furlong ET, Zaugg SD*, et al.* "Do pharmaceuticals, pathogens, and other organic waste water compounds persist when waste water is used for recharge?" *Ground Water Monitoring & Remediation* **2004**, *24*(2):58-69.

Corey EJ, Czakó B, and Kűrti L. "Molecules and Medicine." John Wiley & Sons, Inc., 2007, 272 pp; http://www.wiley.com/WileyCDA/WileyTitle/productCd-0470227494,descCd-tableOfContents.html.

Corley E, Scheufele D, and Hu Q. "Of risks and regulations: how leading U.S. nanoscientists form policy stances about nanotechnology." *Journal of Nanoparticle Research* **2009**, *11*(7):1573-1585; doi:10.1007/s11051-009-9671-5.

Cornish-Bowden A and Cardenas ML. "Metabolic analysis in drug design." *Comptes Rendus Biologies* **2003**, *326*(5):509-515; doi:10.1016/S1631-0691(03)00117-3.

Coronado M, De Haro H, Deng X, Rempel MA, Lavado R, and Schlenk D. "Estrogenic Activity and Reproductive effects of the UV-filter oxybenzone (2-hydroxy-4-methoxyphenyl-methanone) in fish." *Aquatic Toxicology* **2008**, *90*(3):182-187; doi:10.1016/j.aquatox.2008.08.018.

Correa SAL and Hoffmann A. "Effect of Drugs That Alter Alertness and Emotionality on the Novelty Response of a Weak Electric Fish, Gymnotus carapo - Light microscopic and ultrastructural studies." *Physiology & Behavior* **1998**, *65*(4):863-869; doi:10.1016/S0031-9384(98)00242-X.

Correas JM, Boespflug O, Hamida K, El Rody F, Melki P, Helenon O*, et al.* "Doppler ultrasonography of peripheral vascular disease: the potential for ultrasound contrast agents." *Journal of Computer Assisted Tomography* **1999**, *23 Suppl 1*:S119-127.

Correia AD, Freitas S, Scholze M, Goncalves JF, Booij P, Lamoree MH*, et al.* "Mixtures of estrogenic chemicals enhance vitellogenic response in sea bass." *Environmental Health Perspectives* **2007**, *115 Suppl 1*:115-121; doi:10.1289/ehp.9359.

Corrieri L, Della Seta D, Canoine V, and Fusani L. "Developmental exposure to xenoestrogen enhances spatial learning in male rats." *Hormones and Behavior* **2007**, *51*(5):620-625; doi:10.1016/j.yhbeh.2007.03.002.

Corsolini S. "Industrial contaminants in Antarctic biota." *Journal of Chromatography A* **2009**, *1216*(3):598-612; doi:10.1016/j.chroma.2008.08.012.

Corson AS. "Applicability of 261.33 to discarded products." USEPA, RCRA Online # 11012, 13 May 1981. 4 pp; http://yosemite.epa.gov/osw/rcra.nsf/0c994248c239947e85256d090071175f/b630cd51dc85edc58525670f006bce84!OpenDocument.

Cortese J. "Death watch I: Cytotoxicity detection." *The Scientist* **2001**, *15*(5):26-27.

Cory-Slechta DA, Crofton KM, Foran JA, Ross JF, Sheets LP, Weiss B*, et al.* "Methods to identify and characterize developmental neurotoxicity for human health risk assessment. I: Behavioral effects." *Environmental Health Perspectives* **2001**, *109*(Suppl.):79-91.

CosIng. "Annex VII (Part 1). List of UV filters which cosmetic products may contain." 4 September, 2007, 5 pp; http://ec.europa.eu/enterprise/cosmetics/cosing/index.cfm?fuseaction=search.results&annex=VII&search.

Cosmetic Ingredient Review (CIR) "30th Anniversary and How cosmetics are regulated." 2008, http://www.cir-safety.org/ http://www.ctfa.org/Content/NavigationMenu/Consumer_Information/Cosmetic_Regulation/Cosmetic_Regulation.htm.

Cossins A. "Cryptic clues revealed." *Nature* **1998**, *396*(6709):309-310.

Costa PMMD, Vaz-Pires PM, and Bernardo F. "Antibiotic resistance of Enterococcus spp. isolated from wastewater and sludge of poultry slaughterhouses." *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants and Agricultural Wastes* **2006**, *41*(8):1393-1403.

Costanzo SD, Murby J, and Bates J. "Ecosystem response to antibiotics entering the aquatic environment." *Marine Pollution Bulletin* **2005**, *51*(1-4):218-223; doi:10.1016/j.marpolbul.2004.10.038.

Costi EM, Goryacheva I, Sicilia MD, Rubio S, and Pérez-Bendito D. "Supramolecular solid-phase extraction of ibuprofen and naproxen from sewage based on the formation of mixed supramolecular aggregates prior to their liquid chromatographic/photometric determination." *Journal of Chromatography A* **2008**, *1210*(1):1-7; doi:10.1016/j.chroma.2008.09.024.

Cotgreave IA. "Session 3: Stress Response." *Toxicology In Vitro* **1998**, *12*(5):569-573; doi:10.1016/S0887-2333(98)00038-1.

Cotgreave IA and Gerdes RG. "Breakthroughs and views - Recent trends in glutathione biochemistry - glutathione - protein interactions: a molecular link between oxidative stress and cell proliferation?" *Biochemical and Biophysical Research Communications* **1998**, *242*(1):1-9; doi:10.1006/bbrc.1997.7812.

Cotman M, Zagorc-Koncan J, and Drolc A. "Study of impacts of treated wastewater to the Krka river." *Water Science and Technology* **2001**, *44*(6):47-54.

Counsell RE, Lu MC, Masry SE, and Weinhold PA. "Inhibition of cholesterol side-chain cleavage by azacholesterols." *Biochemical Pharmacology* **1971**, *20*(10):2912-2915; doi:10.1016/0006-2952(71)90205-X.

Couper JM and Leise EM. "Serotonin Injections Induce Metamorphosis in Larvae of the Gastropod Mollusc Ilyanassa obsoleta." *Biological Bulletin* **1996**, *191*(2):178-186.

Cousineau LM. "Pharmaceutical and personal care product concentrations in the upper Susquehanna River." Masters Dissertation, State University of New York, Binghamton, NY, 2008. 128 pp.

Coutin A. "Problématique des médicaments dans l.environnement: exposition et devenir dans les hydrosystèmes." ENSSIB-UCBL, 2004. 78 pp; http://enssibal.enssib.fr/bibliotheque/documents/dessid/rrbcoutin.pdf.

Cowan-Ellsberry CE, Dyer SD, Erhardt S, Bernhard MJ, Roe AL, Dowty ME*, et al.* "Approach for extrapolating in vitro metabolism data to refine bioconcentration factor estimates." *Chemosphere* **2008**, *70*(10):1804-1817; doi:10.1016/j.chemosphere.2007.08.030.

Cowen LE and Lindquist S. "Hsp90 Potentiates the Rapid Evolution of New Traits: Drug Resistance in Diverse Fungi." *Science* **2005**, *309*(5744):2185-2189; doi:10.1126/science.1118370.

Cowen LE, Nantel A, Whiteway MS, Thomas DY, Tessier DC, Kohn LM*, et al.* "Population genomics of drug resistance in Candida albicans." *Proceedings of the National Academy of Sciences of the United States of America* **2002**, *99*(14):9284-9289; doi:10.1073/pnas.102291099.

Cox ER, Mager D, and Weisbart E. "Geographic Variation Trends in Prescription Use: 2000 to 2006." Express Scripts, Inc., St. Louis, MO, 2008, 23 pp; http://www.express-scripts.com/industryresearch/outcomes/onlinepublications/study/geoVariationTrends.pdf.

Cox ER, Motheral BR, Henderson RR, and Mager D. "Geographic Variation in the Prevalence of Stimulant Medication Use Among Children 5 to 14 Years Old: Results From a Commercially Insured US Sample." *Pediatrics* **2003**, *111*(2):237-243; doi:10.1542/peds.111.2.237.

Cox Gad S, Ed., "Pharmaceutical Manufacturing Handbook." Wiley, 2008, 2240 pp; http://www.wiley.com/WileyCDA/WileyTitle/productCd-0471213918.html.

Cox Gad S. "Pharmaceutical Manufacturing Handbook: Regulations and Quality." Wiley, 2008, 856 pp; http://www.wiley.com/WileyCDA/WileyTitle/productCd-0470259590,descCd-tableOfContents.html.

Cox Gad S. "Pharmaceutical Manufacturing Handbook: Production and Processes." 2008, 1370 pp; http://www.wiley.com/WileyCDA/WileyTitle/productCd-0470259582,descCd-tableOfContents.html.

Cox H, Mouzi S, and Gelsleichter J. "Preliminary observations of estrogenic activity in surface waters of the Myakka river, Florida." *Florida Scientist* **2006**, *69*(00S2):92-99.

Cox LATJ, Popken DA, and Mathers J. "Human Health Risk Assessment of Penicillin/Aminopenicillin Resistance in Enterococci Due to Penicillin Use in Food Animals." *Risk Analysis* **2009**, *29*(6):796-805; doi:10.1111/j.1539-6924.2009.01202.x.

Coyne R, Bergh Ø, and Samuelsen OB. "One-step liquid chromatographic method for the determination of oxytetracycline in fish muscle." *Journal of Chromatography B* **2004**, *810*(2):325-328; doi:10.1016/j.jchromb.2004.08.015.

Coyne R, Hiney M, O'Connor B, Kerry J, Cazabon D, and Smith P. "Concentration and Persistence of Oxytetracycline in Sediments Under A Marine Salmon Farm." *Aquaculture* **1994**, *123*(1-2):31-42; doi:10.1016/0044-8486(94)90117-1.

Coyne R, Hiney M, and Smith P. "Transient presence of oxytetracycline in blue mussels (Mytilus edulis) following its therapeutic use at a marine Atlantic salmon farm." *Aquaculture* **1997**, *149*:175-181; doi:10.1016/S0044-8486(96)01446-9.

Coyne R, Smith P, and Moriarty C. "The Fate of Oxytetracycline in the Marine Environment of a Salmon Cage Farm." *Marine environment and health series* **2001**, *3*:1-24.

Craft JA, Brown M, Dempsey K, Francey J, Kirby MF, Scott AP*, et al.* "Kinetics of vitellogenin protein and mRNA induction and depuration in fish following laboratory and environmental exposure to oestrogens." *Marine Environmental Research* **2004**, *58*(2-5):419-423; doi:10.1016/j.marenvres.2004.03.025.

Craig M, Grant L, and Ryan M. "Disposal of Unwanted Medicinal Products (DUMP) Campaign and Audit." Argyll and Clyde NHS Board & Lomond and Argyll Primary Care NHS Trust, February, 2001, 9 pp; http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1314647.

Crain SM and Shen K-F. "Ultra-low concentrations of naloxone selectively antagonize excitatory effects of morphine on sensory neurons, thereby increasing its antinociceptive potency and attenuating tolerance/dependence during chronic cotreatment." *Proceedings of the National Academy of Sciences of the United States of America* **1995**, *92*(23):10540-10544.

Crain SM and Shen K-F. "Antagonists of excitatory opioid receptor functions enhance morphine's analgesic potency and attenuate opioid tolerance/dependence liability." *Pain* **2000**, *84*(2-3):121-131; doi:10.1016/S0304-3959(99)00223-7.

Crain SM and Shen K-F. "Enhanced analgesic potency and reduced tolerance of morphine in 129/SvEv mice: evidence for a deficiency in GM1 ganglioside-regulated excitatory opioid receptor functions." *Brain Research* **2000**, *856*(1-2):227-235; doi:10.1016/S0006-8993(99)02446-4.

Crain SM and Shen K-F. "Acute thermal hyperalgesia elicited by low-dose morphine in normal mice is blocked by ultra-low-dose naltrexone, unmasking potent opioid analgesia." *Brain Research* **2001**, *888*(1):75-82; doi:10.1016/S0006-8993(00)03010-9.

Crane HM, Pickford DB, Hutchinson TH, and Brown JA. "The effects of methimazole on development of the fathead minnow, Pimephales promelas, from embryo to adult." *Toxicological Sciences* **2006**, *93*(2):278-285; doi:10.1093/toxsci/kfl063.

Crane M. "Proposed development of Sediment Quality Guidelines under the European Water Framework Directive: A critique." *Toxicology Letters* **2003**, *142*(3):195-206; doi:10.1016/S0378-4274(03)00069-9.

Crane M. "Proposed Development of Sediment Quality Guidelines under the European Water Framework Directive: A Critique." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Crane M, Barrett K, and Boxall A. "Introduction." *Veterinary Medicines in the Environment* **2008**:1-6.

Crane M, Barrett K, and Boxall A. "Workshop Conclusions and Recommendations." *Veterinary Medicines in the Environment* **2008**:181-186.

Crane M, Boxall A, and Barrett K, Eds., "Veterinary Medicines in the Environment." SETAC Press, 2008, 230 pp; https://www.setac.net/setacssa/ecssashop.show_product_detail?p_product_serno=319&p_mode=detail&p_cust_id=&p_order_serno=&p_promo_cd=&p_price_cd=.

Crane M, Gross MY, Daginnus K, Deviller G, de Wolf W, Dungey S*, et al.* "Thresholds of Toxicological Concern for Endocrine Active Substances in the Aquatic Environment." *Integrated Environmental Assessment and Management* **2009**, *In press*; doi:10.1897/IEAM_2008-092.1.

Crane M and Watts C. "Annex D: Review - Chronic Risks of Human Pharmaceuticals in the Aquatic Environment. in: Environment Agency 2006: workshop on chronic aquatic ecotoxicity testing of human pharmaceuticals." Watts & Crane Associates, Oxfordshire, England, May, 2006, 57-95 pp.

Crane M, Watts C, and Boucard T. "Chronic aquatic environmental risks from exposure to human pharmaceuticals." *Science of the Total Environment* **2006**, *367*(1):23-41; doi:10.1016/j.scitotenv.2006.04.010.

Crimmins WF. "Disposing of Expired Drugs: a Matter of Policy." *Journal of the American Veterinary Medical Association* **2001**, *218*(1):10.

Cripe GM, Hemmer BL, Goodman LR, Fournie JW, Raimondo S, Vennari JC*, et al.* "Multigenerational exposure of the estuarine sheepshead minnow (cyprinodon variegatus) to 17β-estradiol. I. organism-level effects over three generations." *Environmental Toxicology and Chemistry* **2009**, *28*(11):2397-2408; doi:10.1897/08-542.1.

Crofton KM, Craft ES, Hedge JM, Gennings C, Simmons JE, Carchman RA*, et al.* "Thyroid-hormone-disrupting chemicals: Evidence for dose-dependent additivity or synergism." *Environmental Health Perspectives* **2005**, *113*(11):1549-1555; doi:10.1289/ehp.8195.

Crofton KM, Paul KB, DeVito MJ, and Hedge JM. "Short-term in vivo exposure to the water contaminant triclosan: Evidence for disruption of thyroxine." *Environmental Toxicology and Pharmacology* **2007**, *24*(2):194-197; doi:10.1016/j.etap.2007.04.008.

Croley TR, Hughes RJ, Koenig BG, Metcalfe CD, and March RE. "Mass spectrometry applied to the analysis of estrogens in the environment." *Rapid Communications in Mass Spectrometry* **2000**, *14*(13):1087-1093; doi:10.1002/1097-0231(20000715)14:13<1087::AID-RCM992>3.0.CO;2-3.

Cromarty E and Downie G. "Drug wastage — what is acceptable?" *The Pharmaceutical Journal* **2001**, *267*(7167):424.

Crook J. "National Research Council report on potable reuse." *Schriftenreihe des Vereins fur Wasser-, Boden-, und Lufthygiene* **2000**,

105:221-226.

Crosina QK. "A bench-scale evaluation of the removal of selected pharmaceuticals and personal care products by UV and UV/H_2O_2 in drinking water treatment." Masters Dissertation, University of Waterloo, Waterloo, Ontario, Canada, 2006. 158 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2263614,FM=9,SEARCH=MD.Generic Search
http://uwspace.uwaterloo.ca/handle/10012/2632.

Crotty S, Cameron CE, and Andino R. "RNA Virus Error Catastrophe: Direct Molecular Test by Using Ribavirin." *Proceedings of the National Academy of Sciences of the United States of America* **2001**, *98*(12):6895-6900.

Crumplin GC. "Waste medicines v unwanted medicines - incineration or altruism?" *The Pharmaceutical Journal* **2000**, *264*(7089):467.

Csermely P. "Chaperone overload is a possible contributor to 'civilization diseases'." *Trends in Genetics* **2001**, *17*(12):701-704; doi:10.1016/S0168-9525(01)02495-7.

CSPA. "Consumer Product Ingredient Communication Initiative." Consumer Specialty Products Association, August, 2009, http://www.cspa.org/public/media/info/cpici.html, http://www.cspa.org//media/info/cpici_faq.html, http://www.cspa.org/public/media/infpublico/cpici_model.html.

Cubbage RC, Hamly RB, and Swartz TC. "Transdermal patch disposal system and method." United States Patent 5804215, Application No. 821467 filed on 1997-03-21, 1998. http://www.patentstorm.us/patents/5804215.html and http://www.google.com/patents?hl=en&lr=&vid=USPAT5804215&id=h6gfAAAAEBAJ&oi=fnd&dq=medication+disposal.

Cuderman P and Heath E. "Determination of UV filters and antimicrobial agents in environmental water samples." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1343-1350; doi:10.1007/s00216-006-0927-y.

Cue BW. "Can Drug Delivery Be A Solution to the Pharmaceuticals In the Environment Problem?" Slide Presentation, Portland, ME, 9 August 2007; http://www.neiwpcc.org/ppcpconference/ppcp-docs/BerkleyCue.pdf.

Cueva-Mestanza R, Sosa-Ferrera Z, Torres-Padrón ME, and Santana-Rodríguez JJ. "Preconcentration of pharmaceuticals residues in sediment samples using microwave assisted micellar extraction coupled with solid phase extraction and their determination by HPLC-UV." *Journal of Chromatography B* **2008**, *863*(1):150-157; doi:10.1016/j.jchromb.2008.01.026.

Cueva-Mestanza R, Torres-Padrón ME, Sosa-Ferrera Z, and Santana-Rodríguez JJ. "Microwave-assisted micellar extraction coupled with solid-phase extraction for preconcentration of pharmaceuticals in molluscs prior to determination by HPLC." *Biomedical Chromatography* **2008**, *22*(10):1115-1122; doi:10.1002/bmc.1033.

Cui CW, Ji SL, and Ren HY. "Determination of steroid estrogens in wastewater treatment plant of a controceptives *[sic]* producing factory." *Environmental Monitoring and Assessment* **2006**, *121*(1-3):409-419; doi:10.1007/s10661-005-9139-8.

Cui C-Z, Hu H-Y, Yu Y-Q, and Yu Y. "Isolation of a Bacterial Strain Capable of Carbamazepine-degrading and Biodegradation Characteristics." *Microbiology/Weishengwuxue Tongbao* **2009**, *36*(4):557-562.

Cui Z and Taha T. "Enhancement of ultrafiltration using gas sparging: a comparison of different membrane modules." *Journal of Chemical Technology and Biotechnology* **2003**, *78*(2-3):249-253; doi:10.1002/jctb.763.

Cuitiño A. "Pharmaceutical Manufacturing for Reduced Environmental Impact." IIT MMAE Symposium on Sustainability and Product Development, Ilinois Institute of Technology, Ilinois, 2008; http://mmae.iit.edu/symposium/downloads/pres/Cuitino.pdf.

Cunningham RT, Mooney MH, Xia X-L, Crooks S, Matthews D, O'Keeffe M*, et al.* "Feasibility of a Clinical Chemical Analysis Approach To Predict Misuse of Growth Promoting Hormones in Cattle." *Analytical Chemistry* **2009**, *81*(3):977-983; doi:10.1021/ac801966g.

Cunningham V. "Special Characteristics of Pharmaceuticals Related to Environmental Fate." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 2, pp 23-34; doi:10.1007/978-3-540-74664-5_2;
http://www.springerlink.com/content/v442145183r22360/?p=aede8740727644b38fb3d398fb1d1996&pi=1.

Cunningham VL. "The PhATE Model: Estimating the distribution of pharmaceuticals in the environment." *Southwest Hydrology* **2003**, *2*(6):20-21.

Cunningham VL. "Special characteristics of pharmaceuticals related to environmental fate." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 2, pp 13-23; http://dx.doi.org/10.1002/chin.200546273.

Cunningham VL. "Environmental Exposure Modelling: Application of PhATE™ and GREAT-ER To Human Pharmaceuticals in the Environment." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 10, pp 133-146; doi:10.1007/978-3-540-74664-5_10; http://www.springerlink.com/content/u4851013527617r6/?p=4a18e809a14145dfafb29b25f93aaf04&pi=9.

Cunningham VL, Binks SP, and Olson MJ. "Human health risk assessment from the presence of human pharmaceuticals in the aquatic environment." *Regulatory Toxicology and Pharmacology* **2009**, *53*(1):39-45; doi:10.1016/j.yrtph.2008.10.006.

Cunningham VL, Buzby M, Hutchinson T, Mastrocco F, Parke N, and Roden N. "Effects of human pharmaceuticals on aquatic life: Next steps." *Environmental Science & Technology* **2006**, *40*(11):3456-3462.

Cunningham VL, Constable DJ, and Hannah RE. "Environmental Risk Assessment of Paroxetine." *Environmental Science & Technology* **2004**, *38*(12):3351-3359.

Cunningham VL, Perino C, D'Aco VJ, Hartmann A, and Bechter R. "Human health risk assessment of carbamazepine in surface waters of North America and Europe." *Regulatory Toxicology and Pharmacology* **2009**, *In Press*; doi:10.1016/j.yrtph.2009.10.006.

Curry M, Hazard-Daniel A, Daniel HJ, and Zeisel SH. "Nutraceuticals." *Science* **1999**, *286*(5446):1853e; doi:10.1126/science.286.5446.1853e.

Custodio JM, Wu CY, and Benet LZ. "Predicting drug disposition, absorption/elimination/transporter interplay and the role of food on drug absorption." *Advanced Drug Delivery Reviews* **2008**, *60*(6):717-733; doi:10.1016/j.addr.2007.08.043.

Cutrona SL, Woolhandler S, Lasser KE, Bor DH, McCormick D, and Himmelstein DU. "Characteristics of Recipients of Free Prescription Drug Samples: A Nationally Representative Analysis." *American Journal of Public Health* **2008**, *98*(2):284-289; doi:10.2105/ajph.2007.114249.

CVMA. 2009, "Statements on California Senate Bill SB 416 (Florez) - Antibiotics." California Veterinary Medical Association 2pp; http://www.cvma.net/doc.asp?id=20476.

Cyclamed "Un dispositif valorisant au service de la profession. Cyclamed, association loi 1901 à but non lucratif, est l'émanation de l'ensemble de la Profession pharmaceutique, permettant ainsi la présence et l'expertise d'un pharmacien sur la totalité de la chaîne du médicament." 2008, http://www.unpf.org/cyclamed/video_index2.htm.

Czajka CP and Londry KL. "Anaerobic biotransformation of estrogens." *Science of the Total Environment* **2006**, *367*(2-3):932-941; doi:10.1016/j.scitotenv.2006.01.021.

Czajkowska D, Boszczyk-Maleszak H, Sikorska IR, and Sochaj A. "Studies on the survival of enterohemorrhagic and environmental escherichia coli strains in wastewater and in activated sludges from dairy sewage treatment plants." *Polish Journal of Microbiology* **2008**, *57*(2):165-171.

Czech P, Weber K, and Dietrich DR. "Effects of endocrine modulating substances on reproduction in the hermaphroditic snail Lymnaea stagnalis L." *Aquatic Toxicology* **2001**, *53*(2):103-114; doi:10.1016/S0166-445X(00)00169-7.

Da Silva CE, Hoppe AE, Ravanello MM, and Mello N. "Medical wastes management in the south of Brazil." *Waste Management* **2005**, *25*(6):600-605; doi:10.1016/j.wasman.2004.03.002.

D'Abrosca B, Fiorentino A, Izzo A, Cefarelli G, Pascarella MT, Uzzo P*, et al.* "Phytotoxicity evaluation of five pharmaceutical pollutants detected in surface water on germination and growth of cultivated and spontaneous plants." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2008**, *43*(3):285 - 294; doi:10.1080/10934520701792803.

Daemmrich A and Bowden ME. "Emergence of Pharmaceutical Science and Industry: 1870-1930." *Chemical & Engineering News* **2005**, *83*(25):3.

Dagnac T, Bristeau S, Leroy C, Coton C, Fleury N, and Jeannot R. "Analysis of organic pollutants in environment." BRGM, Orleans, France, 2005.

Dai L. "Fate and effects of sediment-associated acetyl cedrene in sediments inhabited by the deposit feeder, *Capitella* sp. I " Masters Dissertation, Roskilde University Roskilde, Denmark, 2009. 66 pp; http://dspace.ruc.dk/handle/1800/4438.

Dalmazio I, Almeida MO, Augusti R, and Alves TMA. "Monitoring the Degradation of Tetracycline by Ozone in Aqueous Medium Via Atmospheric Pressure Ionization Mass Spectrometry." *Journal of the American Society for Mass Spectrometry* **2007**, *18*(4):679-687; doi:10.1016/j.jasms.2006.12.001.

Dalmazio I, Alves TMA, and Augusti R. "An appraisal on the degradation of paracetamol by TiO2/UV system in aqueous medium: product identification by gas chromatography-mass spectrometry (GC-MS)." *Journal of the Brazilian Chemical Society* **2008**, *19*(1):81-88; doi:10.1590/S0103-50532008000100013.

Dalmázio I, Santos LS, Lopes RP, Eberlin MN, and Augusti R. "Advanced Oxidation of Caffeine in Water: On-Line and Real-Time Monitoring by Electrospray Ionization Mass Spectrometry." *Environmental Science & Technology* **2005**, *39*(16):5982-5988; doi:10.1021/es047985v.

Dalrymple OK, Yeh DH, and Trotz MA. "Removing pharmaceuticals and endocrine-disrupting compounds from wastewater by photocatalysis." *Journal of Chemical Technology and Biotechnology* **2007**, *82*(2):121-134; doi:10.1002/jctb.1657.

Dalton LW. "Weighing risks of estrogen therapy." *Chemical & Engineering News* **2003**, *81*(40):25-27.

Damstra T, Barlow S, Bergman A, Kavlock R, and Van Der Kraak G. "Global assessment of the state-of-the-science of endocrine disruptors." Geneva, Switzerland, World Health Organization, WHO, 2002, 180 pp; http://www.who.int/pcs/emerg_site/edc/global_edc_TOC.htm.

Danaher M, Howells LC, Crooks SRH, Cerkvenik-Flajs V, and O'Keeffe M. "Review of methodology for the determination of macrocyclic lactone residues in biological matrices." *Journal of Chromatography B* **2006**, *844*(2):175-203; doi:10.1016/j.jchromb.2006.07.035.

Danet AF, David V, and David I. "Acetaminophen determination by flow injection analysis with biamperometric detection." *Revue Roumaine de Chimie* **1998**, *43*:811-816.

Dang A and Rataboli PV. "Pharmaceutical packaging, labelling and their influence on the environment!" in *An Introduction to Environmental Pharmacology*, 1st ed.; Rahman SZ, Shahid M and Gupta V, Eds., Ibn Sina Academy; Aligarh, India, 2008, 9, pp 149-168.

Dang H, Ren J, Song L, Sun S, and An L. "Diverse Tetracycline Resistant Bacteria and Resistance Genes from Coastal Waters of Jiaozhou Bay." *Microbial Ecology* **2008**, *55*(2):237-246; doi:10.1007/s00248-007-9271-9.

Dang H, Zhang X, Song L, Chang Y, and Yang G. "Molecular determination of oxytetracycline-resistant bacteria and their resistance genes from mariculture environments of China." *Journal of Applied Microbiology* **2007**, *103*(6):2580-2592; doi:10.1111/j.1365-2672.2007.03494.x.

Dang H, Zhao J, Song L, Chen M, and Chang Y. "Molecular characterizations of chloramphenicol- and oxytetracycline-resistant bacteria and resistance genes in mariculture waters of China." *Marine Pollution Bulletin* **2009**, *58*(7):987-994; doi:10.1016/j.marpolbul.2009.02.016.

Daniel H, Bernez I, Haury J, and Le Coeur D. "The Ability of Aquatic Macrophytes to Assess Fish Farm Pollution in Two Salmon Rivers." *Hydrobiologia* **2005**, *551*(1):183-191; doi:10.1007/s10750-005-4460-3.

Danish EPA, Halling-Sørensen B, Nors Nielsen S, and Jensen J. "Environmental assessment of veterinary medicinal products in Denmark." Danish EPA, Denmark, 2002. http://www.mst.dk.

Daniszewsi R, C.A. L, Marriott JF, Wilson KA, Clewes P, and Wilkinson M. "An investigation of medicines returned to general practitioners and community pharmacies." *International Journal of Pharmacy Practice* **2002**, *10*(Suppl):R42.

Danovaro R, Armeni M, Corinaldesi C, and Mei ML. "Viruses and marine pollution." *Marine Pollution Bulletin* **2003**, *46*(3):301-304; doi:10.1016/S0025-326X(02)00461-7.

Danovaro R, Bongiorni L, Corinaldesi C, Giovannelli D, Damaiani E, Astolfi P*, et al.* "Sunscreens Cause Coral Bleaching by Promoting Viral Infections." *Environmental Health Perspectives* **2008**, *116*(4):441-447; doi:10.1289/ehp.10966.

Danovaro R and Corinaldesi C. "Sunscreen products increase virus production through prophage induction in marine bacterioplankton." *Microbial Ecology* **2003**, *45*(2):109-118; doi:10.1007/s00248-002-1033-0.

Dantas G, Sommer MOA, Oluwasegun RD, and Church GM. "Bacteria Subsisting on Antibiotics." *Science* **2008**, *320*(5872):100-103; doi:10.1126/science.1155157.

Dantas RF, Canterino M, Marotta R, Sans C, Esplugas S, and Andreozzi R. "Bezafibrate removal by means of ozonation: Primary intermediates, kinetics, and toxicity assessment." *Water Research* **2007**, *41*(12):2525-2532; doi:10.1016/j.watres.2007.03.011.

Dantas RF, Contreras S, Sans C, and Esplugas S. "Sulfamethoxazole abatement by means of ozonation." *Journal of Hazardous Materials* **2008**, *150*(3):790-794; doi:10.1016/j.jhazmat.2007.05.034.

Darbre PD. "Environmental oestrogens, cosmetics and breast cancer." *Best Practice & Research Clinical Endocrinology & Metabolism* **2006**, *20*(1):121-143; doi:10.1016/j.beem.2005.09.007.

Darbre PD, Aljarrah A, Miller WR, Coldham NG, Sauer MJ, and Pope GS. "Concentrations of parabens in human breast tumours." *Journal of Applied Toxicology* **2004**, *24*(1):5-13; doi:10.1002/jat.958.

D'Arrigo C, Migliardi G, Santoro V, and Spina E. "Determination of olanzapine in human plasma by reversed-phase high-performance liquid chromatography with ultraviolet detection." *Therapeutic Drug Monitoring* **2006**, *28*(3):388-393.

Dart RC. "Medical Toxicology." Lippincott, Williams and Wilkins, 2004, Third ed., 1914 pp; http://www.amazon.com/exec/obidos/ASIN/0781728452.

Darwish I. "Immunoassay Methods and their Applications in Pharmaceutical Analysis: Basic Methodology and Recent Advances." *International Journal of Biomedical Science* **2006**, *2*(3):217-235.

Das BS, Lee LS, Rao PSC, and Hultgren RP. "Sorption and degradation of steroid hormones in soils during transport: Column studies and model evaluation." *Environmental Science & Technology* **2004**, *38*(5):1460-1470; doi:10.1021/es034898e.

D'Ascenzo G, Di Corcia A, Gentili A, Mancini R, Mastropasqua R, Nazzari M*, et al.* "Fate of natural estrogen conjugates in municipal sewage transport and treatment facilities." *Science of the Total Environment* **2003**, *302*(1-3):199-209; doi:10.1016/S0048-9697(02)00342-X.

Dasgupta A, Appenzeller P, and Moore J. "Gas chromatography electron ionization and chemical ionization mass spectrometric analysis of serum mexiletine concentration after derivatization with 2,2,2-trichloroethyl chloroformate: A novel derivative." *Therapeutic Drug Monitoring* **1998**, *20*(3):313-318.

Dasgupta A and Yousef O. "Gas chromatographic-mass spectrometric determination of serum mexiletine concentration after derivatization with perfluorooctanoyl chloride, a new derivative." *Journal of Chromatography B: Biomedical Sciences and Applications* **1998**, *705*(2):283-288.

Daston GP. "Developmental toxicity evaluation of butylparaben in Sprague-Dawley rats." *Toxicology* **2004**, *71*(4):296-302; doi:10.1002/bdrb.20016.

Daughton CG "Complete list of publications." http://www.epa.gov/nerlesd1/bios/daughton.htm.

Daughton CG. "Emerging pollutants, and communicating the science of environmental chemistry and mass spectrometry: pharmaceuticals in the environment." *Journal of the American Society for Mass Spectrometry* **2001**, *12*(10):1067-1076; doi:10.1016/S1044-0305(01)00287-2.

Daughton CG. "Pharmaceuticals & Personal Care Products (PPCPs) in the Environment: Agents of Subtle Change?" Poster Presentation, USEPA, NERL, Las Vegas, NV, January 2001; http://www.epa.gov/nerlesd1/bios/daughton/254ecb99rev.pdf.

Daughton CG. "'Commentary on Illicit Drugs in the Environment: A Tool for Public Education - Societal Drug Abuse and Its Aiding of Terrorism.' [This commentary further elaborates and extends upon the ideas first presented in the book Pharmaceuticals and Personal Care Products in the Environment Scientific and Regulatory Issues, Chapter 20, Illicit Drugs in Municipal Sewage: Proposed New Non-Intrusive Tool to Heighten Public Awareness of Societal Use of Illicit-Abused Drugs and Their Potential for Ecological Consequences]." USEPA, NERL, Daughton CG and Jones-Lepp T, Eds., Washington, DC, 2001, xxx pp; http://www.epa.gov/nerlesd1/bios/daughton/book-post.htm.

Daughton CG. "Illicit drugs in municipal sewage: Proposed new non-intrusive tool to heighten public awareness of societal use of

illicit/abused drugs and their potential for ecological consequence." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp T, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 20, pp 348-364; doi:10.1021/bk-2001-0791.ch020; http://www.epa.gov/nerlesd1/bios/daughton/book-conclude.htm or http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Daughton CG. "Pharmaceuticals and personal care products in the environment: Overarching issues and overview." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 1, pp 2-38; doi:10.1021/bk-2001-0791.ch001; http://www.epa.gov/nerlesd1/bios/daughton/book-summary.htm or http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Daughton CG. "Pollution from Personal Actions, Activities, and Behaviors: Pharmaceuticals and Personal Care Products in the Environment (Multidimensional Science Issues Relevant to Regulatory Considerations), Environment 2001: Water, Energy and the Law." Pharmaceutical Discharges and Drinking Water, The Tulane Institute for Environmental Law and Policy, New Orleans, Louisiana, 9 March 2001; http://www.law.tulane.edu/elp, and http://www.epa.gov/nerlesd1/bios/daughton/pollution1.pdf.

Daughton CG. "Literature Forensics? Door to What Was Known but Now Forgotten." *Environmental Forensics* **2001**, *2*(4):277-282; doi:10.1006/enfo.2001.0065.

Daughton CG. "Biological Systems and Stressors: 'Toxicant Totality Tolerance Trajectory' - 4T's." Poster Presentation, USEPA, NERL, Las Vegas, NV, 2002; http://www.epa.gov/nerlesd1/bios/daughton/stressor.pdf.

Daughton CG. "Environmental stewardship and drugs as pollutants." *The Lancet* **2002**, *360*(9339):1035-1036; doi:10.1016/S0140-6736(02)11176-7.

Daughton CG. "Literature Forensics: Navigating through flotsam, jetsam, and lagan." *The Scientist* **2002**, *16*(4):12.

Daughton CG. "Chemicals from Pharmaceuticals and Personal Care Products." in *Water: Science and Issues*, Dasch EJ, Ed., Macmillan Reference USA; New York, NY, 2003, pp 158-164; http://www.epa.gov/nerlesd1/bios/daughton/Macmillan-PPCPs.pdf.

Daughton CG. "Pollution from the Combined Activities, Actions, and Behaviors of the Public: Pharmaceuticals and Personal Care Products, invited article for Diversified Perspectives, Northern California Regional Chapter of the Society of Environ Toxicol Chem." *NorCal SETAC News* **2003**, *14*(1):5-15.

Daughton CG. "Non-Regulated Contaminants: Emerging Issues." National Academies, Institute of Medicine, Roundtable on Environmental Health Sciences, Research, and Medicine (EHSRM), Washington, DC, 16 October 2003; http://www.epa.gov/nerlesd1/bios/daughton/iom-ppt-2003.pdf and http://www.iom.edu/event.asp?id=14623 Note: The proceedings from this workshop were summarized in an IOM book: "From Source Water to Drinking Water: Workshop Summary," 2004; available: http://books.nap.edu/catalog/11142.html (see pages 39-42, section "Non-regulated Contaminants": http://books.nap.edu/books/0309093066/html/35.html#pagetop.

Daughton CG. "Environmental Stewardship of Pharmaceuticals: The Green Pharmacy." in National Ground Water Association (NGWA), 3rd International Conference on Pharmaceuticals and Endocrine Disrupting Chemicals in Water, Minneapolis, MN, 19-21 March, 2003, 11 pp; http://www.epa.gov/nerlesd1/bios/daughton/ngwa2003.pdf.

Daughton CG. "Cradle-to-cradle stewardship of drugs for minimizing their environmental disposition while promoting human health. I. Rationale for and avenues toward a green pharmacy." *Environmental Health Perspectives* **2003**, *111*(5):757-774.

Daughton CG. "Cradle-to-cradle stewardship of drugs for minimizing their environmental disposition while promoting human health. II. Drug disposal, waste reduction, and future directions." *Environmental Health Perspectives* **2003**, *111*(5):775-785.

Daughton CG. "Pharmaceuticals and Personal Care Products in the Environment: Introduction and Overview." in U.S. EPA Emerging Pollutants Workshop, U.S. EPA Region 5 Office, Chicago, IL, 11-14 August, 2003, 42-47 pp.

Daughton CG. "Groundwater recharge and chemical contaminants: Challenges in communicating the connections and collisions of two disparate worlds." *Ground Water Monitoring & Remediation* **2004**, *24*(2):127-138.

Daughton CG. "Non-regulated water contaminants: emerging research." *Environmental Impact Assessment Review* **2004**, *24*(7-8):711-732; doi:10.1016/j.eiar.2004.06.003.

Daughton CG. "PPCPs in the environment: Future research - beginning with the end always in mind." in *Pharmaceuticals in the*

environment - Sources, fate, effects and risks, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 33, pp 463-496; http://www.epa.gov/nerlesd1/bios/daughton/researchneeds-chapter.pdf.

Daughton CG. "Emerging chemicals as pollutants in the environment: a 21st century perspective." *Renewable Resources Journal* **2005**, *23*(4):6-23.

Daughton CG. "Origins and Fate of PPCPs in the Environment." Poster Presentation, USEPA, NERL, Las Vegas, NV, 2006; http://www.epa.gov/nerlesd1/bios/daughton/drawing.pdf.

Daughton CG. "Emerging Pollutants - Questions, Challenges, and the Future." Network of Reference Laboratories for Monitoring of Emerging Environmental Pollutants, EU, Guest Editorial, Ed., Stresa, Italy, 2006, 15 pp; http://www.norman-network.net/index_php.php?module=public/others/newsletter and http://www.norman-network.net/newsletters/newsletter_norman_1.pdf.

Daughton CG. "Pharmaceuticals in the environment: sources and their management." in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science; 2007, Chapter 1, pp 1-58; doi:10.1016/S0166-526X(07)50001-2; http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Daughton CG. "Pharmaceuticals as environmental pollutants: the ramifications for human exposure." in *International Encyclopedia of Public Health*, Heggenhougen K and Quah S, Eds., Academic Press; Oxford, England, 2008, pp 66-102; doi:10.1016/B978-012373960-5.00403-2; http://www.elsevier.com/wps/find/bookdescription.cws_home/714579/description#description, pre-galley version: http://www.epa.gov/nerlesd1/bios/daughton/EoPH2008.pdf.

Daughton CG. "Drug Usage and Disposal: Overview of Environmental Stewardship and Pollution Prevention (with an emphasis on activities in the Federal Government)." US EPA, Office of Research and Development, Environmental Sciences Division. Las Vegas, Nevada, prepared for Research Triangle Environmental Health Collaborative - Health Summit, "Pharmaceuticals in Water: What We Know, Don't Know, and Should Do," 10-11 November 2008 North Carolina Biotechnology Center, Research Triangle Park, North Carolina, 15 October, 2008, 24 pp; http://environmentalhealthcollaborative.org/summit/presentations-and-materials/; http://environmentalhealthcollaborative.org/images/ChristianDaughtonAbstract.pdf.

Daughton CG. "Drug Usage and Disposal: Overview of Environmental Stewardship and Pollution Prevention." invited overview for Research Triangle Environmental Health Collaborative - Health Summit, "Pharmaceuticals in Water: What We Know, Don't Know, and Should Do," 10-11 November 2008 North Carolina Biotechnology Center, Research Triangle Park, North Carolina, 2008; http://environmentalhealthcollaborative.org/summit/presentations-and-materials/; http://environmentalhealthcollaborative.org/images/ChristianDaughtonPresentation.pdf.

Daughton CG. "Chemicals from the Practice of Healthcare: Challenges and Unknowns Posed by Residues in the Environment." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2490-2494; doi:10.1897/09-138.1,10.1897/09-138.S1, 10.1897/09-138.S2.

Daughton CG and Brooks BW. "Pharmaceutical Active Ingredients in Aquatic Organisms." in *Environmental Contaminants in Biota: Interpreting Tissue Concentrations*, 2nd ed.; Beyer WN and J. M, Eds., Taylor and Francis; Boca Raton, FL, 2011, pp.

Daughton CG and Jones-Lepp T, Eds., "Pharmaceuticals and Personal Care Products in the Environment: Scientific and Regulatory Issues." American Chemical Society, Washington, DC, 2001, ACS Symposium Series 791, 396 pp; doi:10.1021/bk-2001-0791; http://www.epa.gov/nerlesd1/bios/daughton/book.htm or http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Daughton CG and Jones-Lepp TL. "Preface." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Preface, pp xi-xvi; doi:10.1021/bk-2001-0791.pr001; http://www.epa.gov/nerlesd1/bios/daughton/preface.htm or http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Daughton CG and Ruhoy IS. "Pharmaceuticals in the Environment - - Why Should Anyone Care?" guest editorial." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, October, 2007, 6 pp; http://www.knappe-eu.org/fichiers/41-Newsletter%202%20OCT%202007-1%20(D6.2.2).pdf.

Daughton CG and Ruhoy IS. "The Afterlife of Drugs and the Role of PharmEcovigilance." *Drug Safety* **2008**, *31*(12):1069-1082.

Daughton CG and Ruhoy IS. "PharmEcovigilance: Aligning Pharmacovigilance with Environmental Protection." in *An Introduction to Environmental Pharmacology*, Rahman SZ, Shahid M and Gupta V, Eds., Ibn Sina Academy; Aligarh, India, 2008, Chapter 1 (Introductory Overview), pp 21-34; http://www.epa.gov/nerlesd1/bios/daughton/IntroEnvironPharmacol-Chapter1-2008.pdf.

Daughton CG and Ruhoy IS. "Accumulation and disposal of leftover medications: A key aspect of pharmEcovigilance." in *An*

Introduction to Environmental Pharmacology, Rahman SZ, Shahid M and Gupta V, Eds., Ibn Sina Academy; Aligarh, India, 2008, Chapter 5, pp 101-107; http://www.epa.gov/nerlesd1/bios/daughton/IntroEnvironPharmacol-Chapter5-2008.pdf.

Daughton CG and Ruhoy IS. "Environmental Footprint of Pharmaceuticals - The Significance of Factors Beyond Direct Excretion to Sewers." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2495-2521; doi:10.1897/08-382.1.

Daughton CG and Ruhoy IS. "Pharmaceuticals and Sustainability: Concerns and Opportunities Regarding Human Health and the Environment." in *A Healthy Future- Pharmaceuticals in a Sustainable Society*, collaborative publication of Apoteket AB, MistraPharma, and Stockholm County Council; Sweden, 2009, Chapter 1, pp 14-39; http://www.epa.gov/nerlesd1/bios/daughton/Pharmaceuticals-Sustainability-2009.pdf.

Daughton CG and Ternes TA. "Pharmaceuticals and personal care products in the environment: Agents of subtle change?" *Environmental Health Perspectives* **1999**, *107*(suppl 6):907-938; doi:10.2307/3434573.

Daughton CG and Ternes TA. "Erratum: Pharmaceuticals and personal care products in the environment: agents of subtle change? (Environ. Health Perspect. 1999, 107(suppl 6), 907-938)." *Environmental Health Perspectives* **2000**, *108*(3):598-598.

David A and Pancharatna K. "Developmental anomalies induced by a non-selective COX inhibitor (Ibuprofen) in zebrafish, (Danio rerio)." *Environmental Toxicology and Pharmacology* **2009**, *27*(3):390-395; doi:10.1016/j.etap.2009.01.002.

David RM. "Exposure to phthalate esters." *Environmental Health Perspectives* **2000**, *108*(10):A440.

Davidner AA, Corey AD, Reqla P, Danta RC, and Mallett SR. "Apparatus for facilitating medical waste disposal." **2007**, (11417471 filed on 2006-05-03) http://www.freepatentsonline.com/7296688.html.

Davidson AW. "The Disposal of Pharmaceutical Waste." *Perspectives in Public Health* **1989**, *109*(3):110-111; doi:10.1177/146642408910900313.

Davies AJ and Maillard JY. "Bacterial adaptation to biocides: the possible role of 'alarmones'." *Journal of Hospital Infection* **2001**, *49*(4):300-302; doi:10.1053/jhin.2001.1104.

Davies IM, Gillibrand PA, McHenery JG, and Rae GH. "Environmental risk of ivermectin to sediment dwelling organisms." *Aquaculture* **1998**, *163*(1):29-46; doi:10.1016/S0044-8486(98)00211-7.

Davies IM, McHenery JG, and Rae GH. "Environmental risk from dissolved ivermectin to marine organisms." *Aquaculture* **1997**, *158*(3-4):263-275; doi:10.1016/S0044-8486(97)00209-3.

Davies IM, Rodger GK, Redshaw J, and Stagg RM. "Targeted environmental monitoring for the effects of medicines used to treat sea-lice infestation on farmed fish." *ICES Journal of Marine Science* **2001**, *58*(2):477-485; doi:10.1006/jmsc.2000.1040.

Davies ML, Lofthouse TJ, and Stamm JM. "Aquatic photodegradation of 14C-sarafloxicin hydrochloride." *Abstracts of Papers - American Chemical Society* **1993**, *S205*:91.

Davis AS, Wingfield CL, Forrester CW, Guthrie MK, and McNew JL. "Streamlining outpatient drug therapy at a Veterans Affairs medical center." *American Journal of Health-System Pharmacy* **1997**, *54*(23):2719-2720.

Davis JG, Truman CC, Kim SC, Ascough JC, and Carlson K. "Antibiotic transport via runoff and soil loss." *Journal of Environmental Quality* **2006**, *35*(6):2250-2260.

Davis KB, Morrison J, and Galvez JI. "Reproductive characteristics of adult channel catfish treated with trenbolone acetate during the phenocritical period of sex differentiation." *Aquaculture* **2000**, *189*(3-4):351-360; doi:10.1016/S0044-8486(00)00378-1.

Davis LK, Visitacion N, Riley LG, Hiramatsu N, Sullivan CV, Hirano T*, et al.* "Effects of o,p'-DDE, heptachlor, and 17β-estradiol on vitellogenin gene expression and the growth hormone/insulin-like growth factor-I axis in the tilapia, Oreochromis mossambicus." *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* **2009**, *149*(4):507-514; doi:10.1016/j.cbpc.2008.11.007.

Davis-Bruno KL and Atrakchi A. "A Regulatory Perspective on Issues and Approaches in Characterizing Human Metabolites." *Chemical Research in Toxicology* **2006**, *19*(12):1561-1563; doi:10.1021/tx060203m.

Davison J. "Genetic Exchange between Bacteria in the Environment." *Plasmid* **1999**, *42*(2):73-91; doi:10.1006/plas.1999.1421.

Dawod M, Breadmore MC, Guijt RM, and Haddad PR. "Electrokinetic supercharging for on-line preconcentration of seven non-steroidal anti-inflammatory drugs in water samples." *Journal of Chromatography A* **2008**, *1189*(1-2):278-284.

Dawod M, Breadmore MC, Guijt RM, and Haddad PR. "Counter-flow electrokinetic supercharging for the determination of non-steroidal anti-inflammatory drugs in water samples." *Journal of Chromatography A* **2009**, *1216*(15):3380-3386; doi:10.1016/j.chroma.2009.02.014.

Dayan AD. "Risk assessment of triclosan [Irgasan®] in human breast milk." *Food and Chemical Toxicology* **2007**, *45*(1):125-129; doi:10.1016/j.fct.2006.08.009.

DBU. "Strategies and Perspectives for Development, Use and Emission Management of Pharmaceuticals." in 1st International Conference on Sustainable Pharmacy, Osnabrück, Germany, Deutsche Bundesstiftung Umwelt, 24-25 April, 2008, http://www.dbu.de/359.html.

D'Costa VM, McGrann KM, Hughes DW, and Wright GD. "Sampling the Antibiotic Resistome." *Science* **2006**, *311*(5759):374-377; doi:10.1126/science.1120800.

De Bel E, Dewulf J, Witte BD, Van Langenhove H, and Janssen C. "Influence of pH on the sonolysis of ciprofloxacin: Biodegradability, ecotoxicity and antibiotic activity of its degradation products." *Chemosphere* **2009**, *77*(2):291-295; doi:10.1016/j.chemosphere.2009.07.033.

De Benedittis J and Bertrand-Krajewski JL. "Measurement of exfiltration in urban sewer systems using nacl as an artificial tracer." *Houille Blanche-Revue Internationale de l'eau* **2005**, *5*:26-34.

De Bolle L, Mehuys E, Adriaens E, Remon J-P, Van Bortel L, and Christiaens T. "Home Medication Cabinets and Self-Medication: A Source of Potential Health Threats?" *Annals of Pharmacotherapy* **2008**, *42*(4):572-579; doi:10.1345/aph.1K533.

de Fátima de Pina M. "Georeferenced wastewater sampling and applied spatial statistics." in *Assessing illicit drugs in wastewater: Potential and limitations of a new monitoring approach*, European Monitoring Centre for Drugs and Drug Addiction (EMCDDA); Lisbon, Portugal, 2008, Chapter 5, pp 73-78; http://www.emcdda.europa.eu/attachements.cfm/att_65636_EN_EMCDDA-insights9-wastewater.pdf.

De Felice B, Argenziano C, Guida M, Trifuoggi M, Russo F, Condorelli V*, et al.* "Molecular Characterization of Microbial Population Dynamics during Sildenafil Citrate Degradation." *Molecular Biotechnology* **2009**, *41*(2):123-132; doi:10.1007/s12033-008-9112-1.

De Gelder L, Vandecasteele FPJ, Brown CJ, Forney LJ, and Top EM. "Plasmid Donor Affects Host Range of Promiscuous IncP-1β Plasmid pB10 in an Activated-Sludge Microbial Community." *Applied and Environmental Microbiology* **2005**, *71*(9):5309-5317; doi:10.1128/aem.71.9.5309-5317.2005.

De Groote A. "Unwanted pharmaceuticals and developing countries: what is actually happening, out in the field [Les medicaments non utilises et les pays en developpement: la realite du terrain]." *Sante* **2005**, *15*(2):125-127.

De Gusseme B, Pycke B, Hennebel T, Marcoen A, Vlaeminck SE, Noppe H*, et al.* "Biological removal of 17α-ethinylestradiol by a nitrifier enrichment culture in a membrane bioreactor." *Water Research* **2009**, *43*(9):2493-2503; doi:10.1016/j.watres.2009.02.028.

de Knecht J, Boucard T, Brooks BW, Crane M, Eirkson C, Gerould S*, et al.* "Environmental Risk Assessment and Management of Veterinary Medicines." *Veterinary Medicines in the Environment* **2008**:21-56.

de l'Académie nationale de Pharmacie. "Medicaments et environnement." de l'Académie nationale de Pharmacie, 14 June, 2008, 94 pp; http://www.acadpharm.org/medias/direct/1-Medicament-Env-rapport-plan-version-JMH-15-06-08.doc.

De Lange HJ, Noordoven W, Murk AJ, Lurling M, and Peeters ETHM. "Behavioural responses of Gammarus pulex (Crustacea, Amphipoda) to low concentrations of pharmaceuticals." *Aquatic Toxicology* **2006**, *78*(3):209-216; doi:10.1016/j.aquatox.2006.03.002.

De Laurenzi V and Melino G. "The little devil of death." *Nature* **2000**, *406*(July 13):135-136.

De Liguoro M, Cibin V, Capolongo F, Halling-Sorensen B, and Montesissa C. "Use of oxytetracycline and tylosin in intensive calf farming: evaluation of transfer to manure and soil." *Chemosphere* **2003**, *52*(1):203-212; doi:10.1016/S0045-6535(03)00284-4.

De Liguoro M, Fioretto B, Poltronieri C, and Gallina G. "The toxicity of sulfamethazine to Daphnia magna and its additivity to other veterinary sulfonamides and trimethoprim." *Chemosphere* **2009**, *75*(11):1519-1524; doi:10.1016/j.chemosphere.2009.02.002.

De Liguoro M, Poltronieri C, Capolongo F, and Montesissa C. "Use of sulfadimethoxine in intensive calf farming: evaluation of transfer to stable manure and soil." *Chemosphere* **2007**, *68*(4):671-676; doi:10.1016/j.chemosphere.2007.02.009.

de Mes TZ, Kujawa-Roeleveld K, Zeeman G, and Lettinga G. "Anaerobic biodegradation of estrogens--hard to digest." *Water Science and Technology* **2008**, *57*(8):1177-1182; doi:10.2166/wst.2008.102.

de Mes TZD, Urmenyi AM, Poot AA, Wessling M, Mulder MHV, and Zeeman G. "Oestrogen removal from biological pretreated wastewater within decentralised sanitation and re-use concepts." *Water Science and Technology* **2006**, *53*(9):141-150.

de Mes TZD, Zeeman G, and Lettinga G. "Occurrence and fate of estrone, 17β-estradiol and 17α-ethynylestradiol in STPs for domestic wastewater." *Reviews in Environmental Science and Biotechnology* **2005**, *4*(4):275-311; doi:10.1007/s11157-005-3216-x.

de Oliveira DS, Prinholato AC, Ratusznei SM, Rodrigues JAD, Zaiat M, and Foresti E. "AnSBBR applied to the treatment of wastewater from a personal care industry: Effect of organic load and fill time." *Journal of Environmental Management* **2009**, *90*(10):3070-3081; doi:10.1016/j.jenvman.2009.04.019.

de Pomerai D. "Heat-shock proteins as biomarkers of pollution." *Human & Experimental Toxicology* **1996**, *15*(4):279-285.

De Rossi A and Desiderio C. "Separation of negatively charged nonsteroidal anti-inflammatory drugs by reversed-phase capillary electrochromatography." *Journal of Chromatography A* **2003**, *984*(2):283-290; doi:10.1016/S0021-9673(02)01850-2.

de Rudder J, Wiele TVd, Dhooge W, Comhaire F, and Verstraete W. "Advanced water treatment with manganese oxide for the removal of 17α-ethynylestradiol (EE2)." *Water Research* **2004**, *38*(1):184-192; doi:10.1016/j.watres.2003.09.018.

De Ruyck H and De Ridder H. "Determination of tetracycline antibiotics in cow's milk by liquid chromatography/tandem mass spectrometry." *Rapid Communications in Mass Spectrometry* **2007**, *21*(9):1511-1520; doi:10.1002/rcm.2991.

de Souza SML, de Vasconcelos EC, Dziedzic M, and de Oliveira CMR. "Environmental risk assessment of antibiotics: An intensive care unit analysis." *Chemosphere* **2009**, *77*(7):962-967; doi:10.1016/j.chemosphere.2009.08.010.

de Vicente A, Aviles M, Codina JC, Borrego JJ, and Romero P. "Resistance to antibiotics and heavy metals of Pseudomonas aeruginosa isolated from natural waters." *Journal of Applied Bacteriology* **1990**, *68*(6):625-632.

de Vlaming V, Biales A, Riordan D, Markiewicz D, Holmes R, Otis P*, et al.* "Screening California surface waters for estrogenic endocrine disrupting chemicals (EEDC) with a juvenile rainbow trout liver vitellogenin mRNA procedure." *Science of the Total Environment* **2007**, *385*(1-3):66-79; doi:10.1016/j.scitotenv.2007.06.026.

de Voogt P, Sacher F, Janex-Habibi ML, Puijker LM, and Mons MN. "Development of an International Priority List of Pharmaceuticals Relevant for the Water Cycle." Kiwa Water Research, London, GB, 2007, 23 pp; http://en.scientificcommons.org/38157661, http://dare.uva.nl/record/287516.

De Wever H, Weiss S, Reemtsma T, Vereecken J, Muller J, Knepper T*, et al.* "Comparison of sulfonated and other micropollutants removal in membrane bioreactor and conventional wastewater treatment." *Water Research* **2007**, *41*(4):935-945; doi:10.1016/j.watres.2006.11.013.

de Wildt SN, Kearns GL, Leeder JS, and van den Anker JN. "Cytochrome P450 3A - Ontogeny and drug disposition." *Clinical Pharmacokinetics* **1999**, *37*(6):485-505.

De Witte B, Dewulf J, Demeestere K, and Van Langenhove H. "Ozonation and advanced oxidation by the peroxone process of ciprofloxacin in water." *Journal of Hazardous Materials* **2009**, *161*(2-3):701-708; doi:10.1016/j.jhazmat.2008.04.021.

De Zan MM, Gil García MD, Culzoni MJ, Siano RG, Goicoechea HC, and Martínez Galera M. "Solving matrix-effects exploiting the second order advantage in the resolution and determination of eight tetracycline antibiotics in effluent wastewater by modelling liquid chromatography data with multivariate curve resolution-alternating least squares and unfolded-partial least squares followed by residual bilinearization algorithms: I. Effect of signal pre-treatment." *Journal of Chromatography A* **2008**, *1179*(2):106-114.

DEA "General Questions & Answers: Can an individual return their controlled substance prescription medication to a pharmacy?" Web Page maintained by Office of Diversion Control, Drug Enforcement Administration, US Department of Justice 2008, http://www.deadiversion.usdoj.gov/faq/general.htm#pre_med.

DEA. 2008, "Title 21 United States Code (USC) Controlled Substances Act." Office of Diversion Control, Drug Enforcement Administration, US Department of Justice, http://www.deadiversion.usdoj.gov/21cfr/21usc/index.html.

DEA. "Disposal of Controlled Substances by Persons Not Registered With the Drug Enforcement Administration." US Drug Enforcement Administration, Department of Justice and Federal Register, Docket No DEA-316A, 2008. 3480-3487 pp; http://www.thefederalregister.com/d.p/2009-01-21-E9-1056; http://www.deadiversion.usdoj.gov/fed_regs/rules/2009/fr0121.htm.

DEA and USEPA. "Guidelines for law enforcement for the cleanup of clandestine drug laboratories." Administration DE and Agency UEP, Drug Enforcement Administration, US Environmental Protection Agency, 2005. 122 pp; http://www.justice.gov/dea/resources/redbook.pdf.

DEA, USEPA, and US Coast Guard. "Guidelines for the cleanup of clandestine drug laboratories." Drug Enforcement Administration, US Environmental Protection Agency and US Coast Guard, EPA540P90005, The Joint Federal Task Force of the Drug Enforcement Administration, the US Environmental Protection Agency, the US Coast Guard, March 1990. 42 pp.

DEA ARCOS "Automation of Reports and Consolidated Orders System." Web Page maintained by Drug Enforcement Administration, US Department of Justice 2009, http://www.deadiversion.usdoj.gov/arcos/index.html.

Dean C. "Drugs Are in the Water. Does It Matter?" The New York Times, 2007, 3 April http://www.nytimes.com/2007/04/03/science/earth/03water.html?_r=1&scp=2&sq=cornealia%20dean%20drugs%20in%20water&st=cse&oref=slogin.

Debat V and David P. "Mapping phenotypes: canalization, plasticity and developmental stability." *Trends in Ecology & Evolution* **2001**, *16*(10):555-561; doi:10.1016/S0169-5347(01)02266-2.

Deborde M, Rabouan S, Duguet JP, and Legube B. "Kinetics of Aqueous Ozone-Induced Oxidation of Some Endocrine Disruptors." *Environmental Science & Technology* **2005**, *39*(16):6086-6092.

Deborde M, Rabouan S, Gallard H, and Legube B. "Aqueous chlorination kinetics of some endocrine disruptors." *Environmental Science & Technology* **2004**, *38*(21):5577-5583; doi:10.1021/es040006e.

Debska J, Kot-Wasik A, and Namiesnik J. "Fate and analysis of pharmaceutical residues in the aquatic environment." *Critical Reviews in Analytical Chemistry* **2004**, *34*(1):51-67; doi:10.1080/10408340490273753.

Debska J, Kot-Wasik A, and Namiesnik J. "Determination of nonsteroidal antiinflammatory drugs in water samples using liquid chromatography coupled with diode-array detector and mass spectrometry." *Journal of Separation Science* **2005**, *28*(17):2419-2426; doi:10.1002/jssc.200400055.

Deeb RA, Kresic N, Laugie MC, and Kavanaugh MC. "Emerging Water Contaminants: Technical, Legal and Policy Challenges." in American Geophysical Union, American Geophysical Union, December, 2002, Washington, DC.

Dees M, "Drugs pop up in the reservoirs." *The News & Observer*, 4 January, 2006, 2 pp; http://www.newsobserver.com/102/v-print/story/384711.html.

Defert B and Huart B. "Présence des médicaments dans l'environnement aquatique [Presence of aquatic environment by drugs]." *European Journal of Water Quality* **2009**, *40*:95-108; doi:10.1051/water/2009007.

Deffner J and Götz K. "Handlungsoptionen für einen umweltfreundlicheren Umgang mit Arzneimitteln [Options for action of a more environmentally acceptable use and handling of pharmaceuticals]." *Umweltwissenschaften und Schadstoff-Forschung* **2008**, *20*(4):238-248; doi:10.1007/s12302-008-0013-5.

Dehghani MH, Najafpoor AA, and Azam K. "Using sonochemical reactor for degradation of LAS from effluent of wastewater treatment plant." *Desalination* **2009**, *In press*; doi:10.1016/j.desal.2009.05.011.

Deisler P. "A personal perspective on hormesis." *Human and Ecological Risk Assessment* **2000**, *6*(2):245-248; doi:10.1080/10807030009380060.

DeJong KE, Siegrist RL, Barber LB, and Wren AL. "Occurrence of emerging organic chemicals in wastewater effluents from onsite systems." in Proceedings of the 10th National Symposium on Individual and Small Community Sewage Systems, Sacramento, CA, American Society of Agricultural and Biological Engineers, 21-24 March, 2004, 701P0104 http://asae.frymulti.com/abstract.asp?aid=15799.

Deksissa T. "Fate and Transport of Steroid Hormones in the Environment." in Abstracts of presentations given in session 8 of the 2008 UCOWR Conference, Southern Illinois University Carbondale, Water Resource Research Institute and Agriculture Experiment

Station, University of the District of Columbia, 2008, 11 pp;
http://opensiuc.lib.siu.edu/cgi/viewcontent.cgi?article=1029&context=ucowrconfs_2008.

Delépée R, Maume D, Le Bizec B, and Pouliquen H. "Preliminary assays to elucidate the structure of otc's degradation products in sediments. Determination of natural tetracyclines by high-performance liquid chromatography / fast atom bombardment mass spectrometry." *Journal of Chromatography B* **2000**, *748*(2):369-381; doi:10.1016/S0378-4347(00)00355-8.

Delépée R and Pouliquen H. "Determination of oxolinic acid in the bryophyte *Fontinalis antipyretica* by liquid chromatography with fluorescence detection." *Journal of Chromatography B* **2002**, *775*(1):89-95; doi:10.1016/S1570-0232(02)00279-9.

Delépée R and Pouliquen H. "Ion-paired solid phase extraction as a sample preparation strategy for the high-performance liquid chromatographic determination of oxytetracycline in the bryophyte Fontinalis antipyretica." *Analytica Chimica Acta* **2003**, *475*(1-2):117-123; doi:10.1016/S0003-2670(02)01222-9.

Delépée R, Pouliquen H, and Le Bris H. "The bryophyte Fontinalis antipyretica Hedw. bioaccumulates oxytetracycline, flumequine and oxolinic acid in the freshwater environment." *Science of the Total Environment* **2004**, *322*(1-3):243-253; doi:10.1016/j.scitotenv.2003.09.018.

Delgado LF, Faucet-Marquis V, Schetrite S, Pfohl-Leszkowicz A, Paranthoen S, and Albasi C. "Effect of cytostatic drugs on the sludge and on the mixed liquor characteristics of a cross-flow membrane bioreactor; consequence on the process." *Journal of Membrane Science* **2009**, *In Press*; doi:10.1016/j.memsci.2009.10.020.

Delgado LF, Schetrite S, Gonzalez C, and Albasi C. "Effect of cytostatic drugs on microbial behaviour in membrane bioreactor system." *Bioresource Technology* **2010**, *101*(2):527-536; doi:10.1016/j.biortech.2009.08.051.

Delgado OB, Ojeda-Benitez S, and Marquez-Benavides L. "Comparative analysis of hazardous household waste in two Mexican regions." *Waste Management* **2007**, *27*(6):792-801; doi:10.1016/j.wasman.2006.03.022.

Della Greca M, Pinto G, Pistillo P, Pollio A, Previtera L, and Temussi F. "Biotransformation of ethinylestradiol by microalgae." *Chemosphere* **2008**, *70*(11):2047-2053; doi:10.1016/j.chemosphere.2007.09.011.

Della Seta D, Minder I, Belloni V, Aloisi AM, Dessi-Fulgheri F, and Farabollini F. "Pubertal exposure to estrogenic chemicals affects behavior in juvenile and adult male rats." *Hormones and Behavior* **2006**, *50*(2):301-307; doi:10.1016/j.yhbeh.2006.03.015.

Dellacherie E, Gref R, and Quellec P. "Les nanosphères « furtives » comme nouvelles formes galéniques injectables: espoirs et réalités [Stealth, nanospheres as new injectable drug carriers: a promising way?]." *Medicine/Sciences* **2001**, *17*(5):619-626.

DellaGreca M, Fiorentino A, Iesce MR, Isidori M, Nardelli A, Previtera L*, et al.* "Identification of phototransformation products of prednisone by sunlight: toxicity of the drug and its derivatives on aquatic organisms." *Environmental Toxicology and Chemistry* **2003**, *22*(3):534-539.

DellaGreca M, Fiorentino A, Isidori M, Lavorgna M, Previtera L, Rubino M*, et al.* "Toxicity of prednisolone, dexamethasone and their photochemical derivatives on aquatic organisms." *Chemosphere* **2004**, *54*(5):629-637; doi:10.1016/j.chemosphere.2003.09.008.

DellaGreca M, Iesce MR, Isidori M, Montanaro S, Previtera L, and Rubino M. "Phototransformation of amlodipine in aqueous solution: Toxicity of the drug and its photoproduct on aquatic organisms." *International Journal of Photoenergy* **2007**, *2007*(63459):1-6; doi:10.1155/2007/63459.

DellaGreca M, Iesce MR, Isidori M, Nardelli A, Previtera L, and Rubino M. "Phototransformation products of tamoxifen by sunlight in water. Toxicity of the drug and its derivatives on aquatic organisms." *Chemosphere* **2007**, *67*(10):1933-1939; doi:10.1016/j.chemosphere.2006.12.001.

DellaGreca M, Iesce MR, Pistillo P, Previtera L, and Temussi F. "Unusual products of the aqueous chlorination of atenolol." *Chemosphere* **2009**, *74*(5):730-734; doi:10.1016/j.chemosphere.2008.09.067.

DellaGreca M, Iesce MR, Previtera L, Rubino M, and Temussi F. "A new photoproduct of the drug furosemide in aqueous media." *Environmental Chemistry Letters* **2004**, *2*(3):155-158; doi:10.1007/s10311-004-0080-9.

Delorenzi A, Locatelli F, Romano A, Nahmod V, and Maldonado H. "Angiotensin II (3-8) induces long-term memory improvement in the crab Chasmagnathus." *Neuroscience Letters* **1997**, *226*(3):143-146; doi:10.1016/S0304-3940(97)00245-0.

Delorenzi A and Maldonado H. "Memory enhancement by the angiotensinergic system in the crab Chasmagnathus is mediated by

endogenous angiotensin II." *Neuroscience Letters* **1999**, *266*(1):1-4; doi:10.1016/S0304-3940(99)00232-3.

DeLorenzo M and Fleming J. "Individual and Mixture Effects of Selected Pharmaceuticals and Personal Care Products on the Marine Phytoplankton Species Dunaliella tertiolecta." *Archives of Environmental Contamination and Toxicology* **2008**, *54*(2):203-210; doi:10.1007/s00244-007-9032-2.

DeLorenzo ME, Keller JM, Arthur CD, Finnegan MC, Harper HE, Winder VL*, et al.* "Toxicity of the antimicrobial compound triclosan and formation of the metabolite methyl-triclosan in estuarine systems." *Environmental Toxicology* **2008**, *23*(2):224-232.

Deluccia RJ. "Transdermal tweaking enhances drug delivery." *Pharmaceutical Formulation & Quality* **2008**, *9*(7):40-42.

Demoling LA and Baath E. "No Long-Term Persistence of Bacterial Pollution-Induced Community Tolerance in Tylosin-Polluted Soil." *Environmental Science & Technology* **2008**, *42*(18):6917-6921; doi:10.1021/es8004706.

Demoling LA, Bååth E, Greve G, Wouterse M, and Schmitt H. "Effects of sulfamethoxazole on soil microbial communities after adding substrate." *Soil Biology and Biochemistry* **2009**, *41*(4):840-848; doi:10.1016/j.soilbio.2009.02.001.

Dempsey C, Mackenzie S, Gargus A, Blanco G, and Sze J. "Serotonin (5HT), Fluoxetine, Imipramine and Dopamine Target Distinct 5HT Receptor Signaling to Modulate Caenorhabditis elegans Egg-Laying Behavior." *Genetics* **2005**, *169*(3):1425-1436; doi:10.1534/genetics.104.032540.

Deng A, Himmelsbach M, Zhu Q-Z, Frey S, Sengl M, Buchberger W*, et al.* "Residue Analysis of the Pharmaceutical Diclofenac in Different Water Types Using ELISA and GC - MS." *Environmental Science & Technology* **2003**, *37*(15):3422-3429; doi:10.1021/es0341945.

Deng X, Rempel MA, Armstrong J, and Schlenk D. "Seasonal evaluation of reproductive status and exposure to environmental estrogens in hornyhead turbot at the municipal wastewater outfall of Orange County, CA." *Environmental Toxicology* **2007**, *22*(5):464-471.

Denison R. "EPA's New Chemicals Program: TSCA dealt EPA a very poor hand." *Chemicals & Nanomaterials* **2009**:10.

Denison RA. "Ten Essential Elements in TSCA Reform." *Environmental Law Reporter* **2009**, *39*:10021-10028.

Denny JS, Tapper MA, Schmieder PK, Hornung MW, Jensen KM, Ankley GT*, et al.* "Comparison of relative binding affinities of endocrine active compounds to fathead minnow and rainbow trout estrogen receptors." *Environmental Toxicology and Chemistry* **2005**, *24*(11):2948-2953; doi:10.1897/04-595R.1.

Denslow ND and Larkin P. "Utilizing molecular technologies for bioindicator research." *Environmental Bioindicators* **2006**, *13*(1):40-59.

Deo RP and Halden RU. "Comment on "The removal of pharmaceuticals, personal care products, endocrine disruptors and illicit drugs during wastewater treatment and its impact on the quality of receiving waters"." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.11.040.

Department of Environmental Conservation "Proper Disposal of Household Prescriptions and Over-the-Counter Drugs." 2008, http://www.dec.ny.gov/chemical/45083.html.

Department of the Environment and Department of Drug Management and Informatics "About the environment and pharmaceuticals – a collaboration between the Department of the Environment and the Department of Drug Management and Informatics." 2008, http://www.janusinfo.se/imcms/servlet/GetDoc?meta_id=7236.

DEQ. "Oregon's list of “long-lived and potentially toxic” water pollutants - the draft P3L." State of Oregon, Department of Environmental Quality, 2009, 7 pp; http://www.deq.state.or.us/wq/sb737/.

Derendorf H, Lesko LJ, Chaikin P, Colburn WA, Lee P, Miller R*, et al.* "Pharmacokinetic/pharmacodynamic modeling in drug research and development." *Journal of Clinical Pharmacology* **2000**, *40*(12):1399-1418.

Derksen A and Roorda J. "Ketenanalyse humane en veterinaire geneesmiddelen in het watermilieu [Emission policy drugs in the Netherlands, for example, other new micropollutants?]." Grontmij nr. 13/9908421, 2005, http://www.iksr.org/fileadmin/user_upload/Dokumente_de/Symposien_u._Workshops/NL-nl.pdf.

Derksen JGM, Eijnatten GW, Lahr J, van der Linde P, and Kroon AGM. "Milieueffecten van humane geneesmiddelen, aanwezigheid

en risico's (Environmental effects of human pharmaceuticals. Occurrence and risks)." Lelystad, January, 2001, 130 pp; http://library.wur.nl/WebQuery/hydrotheek/lang/1626412, http://www.verkeerenwaterstaat.nl/kennisplein/9/8/98278/Milieu-effecten%20van%20humane%20geneesmiddelen223416.pdf.

Derksen JGM and Lahr J. "Review oestrogenen en geneesmiddelen in het milieu : stand van zaken kennislacunes [Review estrogens and pharmaceuticals in the environment: state of knowledge gaps]." Foundation for Applied Water Research, 2003, 87 pp; http://library.wur.nl/WebQuery/hydrotheek/lang/1702195.

Derksen JGM, Rijs GBJ, and Jongbloed RH. "Diffuse pollution of surface water by pharmaceutical products." *Water Science and Technology* **2004**, *49*(3):213-221.

Desbrow C, Routledge EJ, Brighty GC, Sumpter JP, and Waldock M. "Identification of estrogenic chemicals in STW effluent. 1. Chemical Fractionation and in vitro biological screening." *Environmental Science & Technology* **1998**, *32*(11):1549-1558.

DesRoches CM, Campbell EG, Rao SR, Donelan K, Ferris TG, Jha A*, et al.* "Electronic Health Records in Ambulatory Care -- A National Survey of Physicians." *New England Journal of Medicine* **2008**, *359*:50-60; doi:10.1056/NEJMsa0802005.

Dettenmaier EM, Doucette WJ, and Bugbee B. "Chemical Hydrophobicity and Uptake by Plant Roots." *Environmental Science & Technology* **2009**, *43*(2):324-329; doi:10.1021/es801751x.

Deventer K, Pozo OJ, Van Eenoo P, and Delbeke FT. "Development and validation of an LC-MS/MS method for the quantification of ephedrines in urine." *Journal of Chromatography B* **2009**, *877*(4):369-374; doi:10.1016/j.jchromb.2008.12.032.

Devin-Clarke D. "Personal Care Compounds in the Environment: Pathways, Fate, and Methods for Determination." *Journal of Environmental Quality* **2007**, *36*(6):1926; doi:10.2134/jeq2007.0016br.

DeWitte B, Dewulf J, Demeestere K, Van De Vyvere V, De Wispelaere P, and Van Langenhove H. "Ozonation of Ciprofloxacin in Water: HRMS Identification of Reaction Products and Pathways." *Environmental Science & Technology* **2008**, *42*(13):4889-4895; doi:10.1021/es8000689.

Dhaliwal BS, Dolan RJ, Batts CW, Kelly JM, Smith RW, and Johnson S. "Warning: replacing NOECs with point estimates may not solve regulatory contradictions." *Environmental Toxicology and Chemistry* **1997**, *16*(3):124-126.

Di Carlo FJ. "Transition from pharmaceutical to environmental research." *Drug Metabolism Reviews* **1977**, *6*(2):1-2.

Di Giulio RT and Hinton DE. "The toxicology of fishes." CRC Press, 2008, 1096 pp; http://www.crcpress.com/shopping_cart/products/product_detail.asp?sku=TF1251&af=W1129.

Di Guardo A, Calamari D, Benefenti E, Halling-Sorensen B, Zuccato E, and Fanelli R. "Pharmaceuticals as environmental contaminants: Modelling distribution and fate." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 15, pp 183-194.

Di Guardo A, Calamari D, Benfenati E, Halling-Sørensen B, Zucatto E, and Fanelli R. "Pharmaceuticals as Environmental Contaminants: Modelling Distribution of fate." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 1st ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2001, Chapter 10, pp 91-102.

Di Guardo A, Calamari D, Benfenati E, Halling-Sorensen B, Zuccato E, and Fanelli R. "Pharmaceuticals as Environmental Contaminants: Modeling Distribution and Fate." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kummerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 9, pp 121-132; doi:10.1007/978-3-540-74664-5_9; http://www.springerlink.com/content/p0857w168l329416/?p=1789e3da80bb4fb9abd104ddb9f49e7f&pi=8.

Di Lorenzo D, Rando G, Ciana P, and Maggi A. "Molecular Imaging, an Innovative Methodology for Whole-Body Profiling of Endocrine Disrupter Action." *Toxicological Sciences* **2008**, *106*(2):304-311; doi:10.1093/toxsci/kfn191.

Di Paola A, Addamo M, Augugliaro V, Garcia-Lopez E, Loddo V, Marci G*, et al.* "Photolytic and TiO2-assisted photodegradation of aqueous solutions of tetracycline." *Fresenius Environmental Bulletin* **2004**, *15*(11):1275-1280.

Di Paola A, Addamo M, Augugliaro V, Garcia-Lopez E, Loddo V, Marci G*, et al.* "Photodegradation of lincomycin in aqueous solution." *International Journal of Photoenergy* **2006**, *Article ID 47418*:1-6; doi:10.1155/IJP/2006/47418.

Diamanti-Kandarakis E, Bourguignon J-P, Giudice LC, Hauser R, Prins GS, Soto AM*, et al.* "Endocrine-Disrupting Chemicals: An Endocrine Society Scientific Statement." *Endocrine Reviews* **2009**, *30*(4):293-342.

Diamond JM and Serveiss VB. "Identifying Sources of Stress to Native Aquatic Fauna Using a Watershed Ecological Risk Assessment Framework." *Environmental Science & Technology* **2001**, *35*(24):4711-4718; doi:10.1021/es0015803.

Diamond ML, Gingrich SE, and Fertuck K. "Evidence for organic film on an impervious urban surface: characterization and potential teratogenic effects." *Environmental Science & Technology* **2000**, *34*(14):2900-2908; doi:10.1021/es9906406.

Diamond ML and Hodge E. "URBAN CONTAMINANT DYNAMICS: From Source to Effect." *Environmental Science & Technology* **2007**, *41*(11):3796-3805; doi:10.1021/es072542n.

Diaz LF. "Pharmaceuticals in the Environment: Sources, Fate, Effects and Risks: K. Kümmerer. Springer-Verlag, Berlin-Heidelberg-New York-London. ISBN: 3-540-41067-8. US$ 99.00, GBP 58.50. Hard cover, 265 pages, 35 figures, 51 tables. 2001." *Waste Management* **2003**, *23*(2):193-193; doi:10.1016/S0956-053X(02)00108-3.

Diaz LF, Savage GM, and Eggerth LL. "Alternatives for the treatment and disposal of healthcare wastes in developing countries." *Waste Management* **2005**, *25*(6):626-637; doi:10.1016/j.wasman.2005.01.005.

Diaz-Cruz M and Barcelo D. "Determination of antimicrobial residues and metabolites in the aquatic environment by liquid chromatography tandem mass spectrometry." *Analytical and Bioanalytical Chemistry* **2006**, *386*(4):973-985; doi:10.1007/s00216-006-0444-z.

Díaz-Cruz M and Barceló D. "Analysis of Pharmaceuticals as Environmental Contaminants - Analysis of antibiotics in aqueous samples." in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science; Amsterdam, The Netherlands, 2007, Chapter 2.1, pp 61-93; http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Diaz-Cruz MS and Barcelo D. "Occurrence and analysis of selected pharmaceuticals in waste waters and sludges." in *Emerging Organic Pollutants in Waste Waters and Sludge*, Barceló D, Ed., Springer; 2004, 5, pp 227-260; http://www.cplbookshop.com/contents/C1602.htm.

Diaz-Cruz MS and Barcelo D. "LC-MS^2 trace analysis of antimicrobials in water, sediment and soil." *Trends in Analytical Chemistry* **2005**, *24*(7):645-657; doi:10.1016/j.trac.2005.05.005.

Diaz-Cruz MS and Barcelo D. "Recent advances in LC-MS residue analysis of veterinary medicines in the terrestrial environment." *Trends in Analytical Chemistry* **2007**, *26*(6):637-646; doi:10.1016/j.trac.2007.04.004.

Díaz-Cruz MS and Barceló D. "Trace organic chemicals contamination in ground water recharge." *Chemosphere* **2008**, *72*(3):333-342; doi:10.1016/j.chemosphere.2008.02.031.

Díaz-Cruz MS and Barceló D. "Input of Pharmaceuticals, Pesticides and Industrial Chemicals as a Consequence of Using Conventional and Non-conventional Sources of Water for Artificial Groundwater Recharge." *The Handbook of Environmental Chemistry* **2008**, *5, Part S/1*:219-238; doi:10.1007/698_5_099.

Diaz-Cruz MS, de Alda MJL, Lopez R, and Barcelo D. "Determination of estrogens and progestogens by mass spectrometric techniques (GC/MS, LC/MS and LC/MS/MS)." *Journal of Mass Spectrometry* **2003**, *38*(9):917-923; doi:10.1002/jms.529.

Díaz-Cruz MS, García-Galán MJ, and Barceló D. "Highly sensitive simultaneous determination of sulfonamide antibiotics and one metabolite in environmental waters by liquid chromatography-quadrupole linear ion trap-mass spectrometry." *Journal of Chromatography A* **2008**, *1193*(1-2):50-59; doi:10.1016/j.chroma.2008.03.029.

Díaz-Cruz MS, García-Galán MJ, Guerra P, Jelic A, Postigo C, Eljarrat E*, et al.* "Analysis of selected emerging contaminants in sewage sludge." *TRAC Trends in Analytical Chemistry* **2009**, *28*(11):1263-1275; doi:10.1016/j.trac.2009.09.003.

Diaz-Cruz MS, Lopez de Alda MJ, and Barcelo D. "Environmental behavior and analysis of veterinary and human drugs in soils, sediments and sludge." *Trends in Analytical Chemistry* **2003**, *22*(6):340-351; doi:10.1016/S0165-9936(03)00603-4.

Diaz-Cruz MS, Lopez de Alda MJ, and Barcelo D. "Determination of antimicrobials in sludge from infiltration basins at two artificial recharge plants by pressurized liquid extraction-liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2006**, *1130*(1):72-82; doi:10.1016/j.chroma.2006.05.076.

Díaz-Cruz SM, Llorca M, and Barceló D. "Organic UV filters and their photodegradates, metabolites and disinfection by-products in the aquatic environment." *TRAC Trends in Analytical Chemistry* **2008**, *27*(10):873-887; doi:10.1016/j.trac.2008.08.012.

Dibb HH. "Influence of industrialization and Pharmaceutical products on the environment and human being: Analysis from China experience." in *An Introduction to Environmental Pharmacology*, 1st ed.; Rahman SZ, Shahid M and Gupta V, Eds., Ibn Sina Academy; Aligarh, India, 2008, 7, pp 133-142.

DiCarlo M, Ruck B, and Marcus S. "How should a fever mercury thermometer be disposed of? A survey of those likely to be asked." *Pediatrics* **2002**, *109*(5):e71.

Dickenson ERV, Drewes JrE, Sedlak DL, Wert EC, and Snyder SA. "Applying Surrogates and Indicators to Assess Removal Efficiency of Trace Organic Chemicals during Chemical Oxidation of Wastewaters." *Environmental Science & Technology* **2009**, *43*(16):6242-6247; doi:10.1021/es803696y.

Dickerson S and Gore A. "Estrogenic environmental endocrine-disrupting chemical effects on reproductive neuroendocrine function and dysfunction across the life cycle." *Reviews in Endocrine & Metabolic Disorders* **2007**, *8*(2):143-159; doi:10.1007/s11154-007-9048-y.

Dickerson TJ and Janda KD. "A previously undescribed chemical link between smoking and metabolic disease." *Proceedings of the National Academy of Sciences of the United States of America* **2002**, *99*(23):15084-15088; doi:10.1073/pnas.222561699.

Dieter HH and Muckter H. "Regulatorische, gesund-heitliche und asthetische Bewertung sogenannter Spurenstoffe im Trinkwasser unter besonderer Beruck-sichtigung von arzneimitteln [Assessment of so called organic trace compounds in drinking water from the regulatory, health and aesthetic-quality points of view, with special consideration given to pharmaceuticals]." *Bundesgesundheitsblatt - Gesundheitsforschung - Gesundheitsschutz* **2007**, *50*(3):322-331; doi:10.1007/s00103-007-0158-1.

Dietrich AS. "The corporation next door: Pharmaceutical companies in community, health, and the environment in Puerto Rico." Doctoral Dissertation, Emory University, 2007. 223 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2215118,FM=9,SEARCH=MD.GenericSearch.

Dietrich D, Webb S, and Petry T. "Hot Spot Pollutants: Pharmaceuticals in the Environment." Academic Press, 2004, 352 pp; http://www.elsevier.com/wps/find/bookdescription.cws_home/703682/description#description, http://search.barnesandnoble.com/used/product.asp?EAN=2696189582109&Itm=1.

Dietrich DR and Chou Y-J. "Ecotoxicology of musks." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 9, pp 156-167; doi:10.1021/bk-2001-0791.ch009; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Dietrich DR and Hitzfeld BC. "Bioaccumulation and Ecotoxicity of Synthetic Musks in the Aquatic Environment." *The Handbook of Environmental Chemistry* **2004**, *3, Part X*:233-244; doi:10.1007/b14125.

Dietrich DR, Hitzfeld BC, and O'Brien E. "Toxicology and risk assessment of pharmaceuticals." in *Organic Pollutants in the Water Cycle*, Reemtsma T and Jekel M, Eds., Wiley-VCH Verlag GmbH & Co. KGaA; 2006, 11, pp; http://w3.ub.uni-konstanz.de/v13/volltexte/2008/5100//pdf/Dietrich_2006_Book_Chapter.pdf http://www3.interscience.wiley.com/cgi-bin/bookhome/112729019/.

Dietrich DR and Kehrer JP. "The toxicology of musk fragrances." *Toxicology Letters* **1999**, *111*:1-4.

Dietrich DR and Prietz A. "Fish embryotoxicity and teratogenicity of pharmaceuticals, detergents and pesticides regularly detected in sewage treatment plant effluents and surface waters." presented at SOT 38th Annual Meeting, 14-18 March, at New Orleans, LA, 1999.

Dietrich DR, Webb SF, and Petry T. "Hot Spot Pollutants: Pharmaceuticals in the Environment." *Toxicology Letters* **2002**, *131*(1):1-3; doi:10.1016/S0378-4274(02)00062-0.

Dietrich DR, Webb SF, and Petry T. "Hot Spot Pollutants: Pharmaceuticals in the Environment." *Toxicology Letters Special Issue* **2002**, *131*(1):1-143.

Dietrich DR, Webb SF, and Petry T. "Hot Spot Pollutants: Pharmaceuticals in the Environment." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp 3-7; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Dietze JE, Scribner EA, Meyer MT, and Kolpin DW. "Occurrence of antibiotics in water from 13 fish hatcheries." *2001-2003 International Journal of Environmental Analytical Chemistry* **2005**, *85*(15):1141-1152; doi:10.1080/03067310500273682.

Diez S, Jover E, Albaiges J, and Bayona JM. "Occurrence and degradation of butyltins and wastewater marker compounds in sediments from Barcelona harbor, Spain." *Environment International* **2006**, *32*(7):858-865; doi:10.1016/j.envint.2006.05.004.

Diez-Gonzalez F, Callaway TR, and Russell JB. "Grain feeding and the dissemination of acid-resistant Escherichia coli from cattle." *Science* **1998**, *281*(5383):1666-1668; doi:10.1126/science.281.5383.1666.

DiFrancesco AM, Chiu PC, Standley LJ, Allen HE, and Salvito DT. "Dissipation of Fragrance Materials in Sludge-Amended Soils." *Environmental Science & Technology* **2004**, *38*(1):194-201.

Dignac MF, Ginestet P, Rybacki D, Bruchet A, Urbain V, and Scribe P. "Fate of wastewater organic pollution during activated sludge treatment: nature of residual organic matter." *Water Research* **2000**, *34*(17):4185-4194; doi:10.1016/S0043-1354(00)00195-0.

Diguardo A, Calamari D, Benfenati E, Halling-Sørensen B, Zuccato E, and Fanelli R. "Pharmaceuticals as Environmental Contaminants: Modelling Distribution and Fate." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 9, pp.

Dillabough EG. "Recent initiatives affecting OTC drug regulation and marketing." *Pharmaceutical Formulation & Quality* **2000**, (August/September):14-16.

Dillon KS, Corbett DR, Chanton JP, Burnett WC, and Furbish DJ. "The use of sulfur hexafluoride (SF6) as a tracer of septic tank effluent in the Florida Keys." *Journal of Hydrology* **1999**, *220*:129-140; doi:10.1016/S0022-1694(99)00073-6.

Dinan L, Bourne P, Whiting P, Dhadialla TS, and Hutchinson TH. "Screening of environmental contaminants for ecdysteroid agonist and antagonist activity using the Drosophila melanogaster B(II) cell in vitro assay." *Environmental Toxicology and Chemistry* **2001**, *20*(9):2038-2046.

Ding J, Drewes CD, and Hsu WH. "Behavioral effects of ivermectin in a freshwater oligochaete, lumbriculus variegatus." *Environmental Toxicology and Chemistry* **2001**, *20*(7):1584-1590.

Ding J, Ren N, Chen L, and Ding L. "On-line coupling of solid-phase extraction to liquid chromatography-tandem mass spectrometry for the determination of macrolide antibiotics in environmental water." *Analytica Chimica Acta* **2009**, *634*(2):215-221; doi:10.1016/j.aca.2008.12.022.

Ding WH and Chiang CC. "Derivatization procedures for the detection of estrogenic chemicals by gas chromatography/mass spectrometry." *Rapid Communications in Mass Spectrometry* **2003**, *17*(1):56-63; doi:10.1002/rcm.819.

Diniz MS, Peres I, Magalhães-Antoine I, Falla J, and Pihan JC. "Estrogenic effects in crucian carp (Carassius carassius) exposed to treated sewage effluent." *Ecotoxicology and Environmental Safety* **2005**, *62*(3):427-435; doi:10.1016/j.ecoenv.2004.11.004.

Dirtu AC, Roosens L, Geens T, Gheorghe A, Neels H, and Covaci A. "Simultaneous determination of bisphenol A, triclosan, and tetrabromobisphenol A in human serum using solid-phase extraction and gas chromatography-electron capture negative-ionization mass spectrometry." *Analytical and Bioanalytical Chemistry* **2008**, *391*(4):1175-1181; doi:10.1007/s00216-007-1807-9.

Division of Clinical Pharmacology. "Drug Interactions: CYTOCHROME P450 DRUG INTERACTION TABLE." University I, Ed., 2009, http://medicine.iupui.edu/clinpharm/DDIs/.

Dizer H, Fischer B, Sepulveda I, Loffredo E, Senesi N, Santana F*, et al.* "Estrogenic effect of leachates and soil extracts from lysimeters spiked with sewage sludge and reference endocrine disrupters." *Environmental Toxicology and Chemistry* **2002**, *17*(2):105-112; doi:10.1002/tox.10038.

Djerassi D. "Sunblock." *Today's Chemist* **1999**:9 pp.

Długołęcka M. "Pharmaceutical compounds; a new challenge for wastewater treatment plants." KTH Land and Water Resources Engineering, Sweden, 2007. 42 pp; http://www.diva-portal.org/diva/getDocument?urn_nbn_se_kth_diva-4347-2__fulltext.pdf.

Długołęcka M, Dahlberg AG, and Płaza E. "'Low concentrations of high priority' - Pharmaceutical and personal care products (PPCPs); occurrence and removal at wastewater treatment plant." *Vatten* **2006**, *62*(2):139-148.

Długołęcka M, Płaza E, Trela J, Dahlberg AG, and Hultman B. "Application of Oxygen Uptake Rate (OUR) tests for study of Metoprolol inhibitory effects on activated sludge." *IWA World Water Congress & Exhibition* **2006**.

Dobbins L, Brain R, and Brooks B. "Comparison of the Sensitivities of Common in Vitro and in Vivo Assays of Estrogenic Activity: Application of Chemical Toxicity Distributions." *Environmental Toxicology and Chemistry* **2008**, *27*(12):2608-2616; doi:10.1897/08-126.1.

Dobbins L, Usenko S, Brain R, and Brooks B. "Probabilistic ecological hazard assessment of parabens using Daphnia magna and Pimephales promelas." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2744-2753; doi:10.1897/08-523.1.

Dobor J, Varga M, Yao J, Chen H, Palkó G, and Záray G. "A new sample preparation method for determination of acidic drugs in sewage sludge applying microwave assisted solvent extraction followed by gas chromatography-mass spectrometry." *Microchemical Journal* **2010**, *94*(1):36-41; doi:10.1016/j.microc.2009.08.007.

Dobson CM. "Chemical space and biology." *Nature* **2004**, *432*(7019):824-828; doi:10.1038/nature03192.

Documed "Compendium Suisse des Médicaments (Swiss Pharmaceutical Compendium)." Documed SA, Basel, Switzerland 2008; http://www.kompendium.ch/Search.aspx?lang=fr.

Dodd MC, Buffle MO, and vonGunten U. "Oxidation of Antibacterial Molecules by Aqueous Ozone: Moiety-Specific Reaction Kinetics and Application to Ozone-Based Wastewater Treatment." *Environmental Science & Technology* **2006**, *40*(6):1969-1977.

Dodd MC and Huang CH. "Transformation of the antibacterial agent sulfamethoxazole in reactions with chlorine: Kinetics mechanisms, and pathways." *Environmental Science & Technology* **2004**, *38*(21):5607-5615; doi:10.1021/es035225z.

Dodd MC and Huang CH. "Aqueous chlorination of the antibacterial agent trimethoprim: Reaction kinetics and pathways." *Water Research* **2007**, *41*(3):647-655; doi:10.1016/j.watres.2006.10.029.

Dodd MC, Kohler H-PE, and von Gunten U. "Oxidation of Antibacterial Compounds by Ozone and Hydroxyl Radical: Elimination of Biological Activity during Aqueous Ozonation Processes." *Environmental Science & Technology* **2009**, *43*(7):2498-2504; doi:10.1021/es8025424.

Dodd MC, Shah AD, Von Gunten U, and Huang C-H. "Interactions of fluoroquinolone antibacterial agents with aqueous chlorine: reaction kinetics, mechanisms, and transformation pathways." *Environmental Science & Technology* **2005**, *39*(18):7065-7076; doi:10.1021/es050054e.

Dodd MC, Zuleeg S, Gunten Uv, and Pronk W. "Ozonation of Source-Separated Urine for Resource Recovery and Waste Minimization: Process Modeling, Reaction Chemistry, and Operational Considerations." *Environmental Science & Technology* **2008**, *42*(24):9329-9337; doi:10.1021/es800560r.

Doerr-MacEwen NA. "The Management of Human Pharmaceuticals in the Environment." Doctoral Dissertation, University of Waterloo, Waterloo, Ontario, 2007. 267 pp; http://uwspace.uwaterloo.ca/bitstream/10012/2751/1/Nora%20PhD%20thesis.pdf.

Doerr-MacEwen NA and Haight ME. "Tailoring the precautionary principle to pharmaceuticals in the environment: accounting for experts' concerns." in *Sustainable development and planning II*, Kungolos AG, Brebbia CA and Beriatos E, Eds., WIT Press; Southampton, 2005, pp 281-292; doi:10.2495/SPD050281; http://library.witpress.com/pages/PaperInfo.asp?PaperID=15530.

Doerr-MacEwen NA and Haight ME. "Expert Stakeholders' Views on the Management of Human Pharmaceuticals in the Environment." *Environ Management* **2006**, *38*(5):853–866; doi:10.1007/s00267-005-0306-z.

Doi AM and Stoskopf MK. "The Kinetics of Oxytetracycline Degradation in Deionized Water under Varying Temperature, pH, Light, Substrate, and Organic Matter." *Journal of Aquatic Animal Health* **2000**, *12*(3):246-253; doi:10.1577/1548-8667(2000)012<0246:TKOODI>2.0.CO;2.

Dojmi di Delupis G, Macri A, Civitareale C, and Migliore L. "Antibiotics of zootechnical use: effects of acute high and low dose contamination on Daphnia magna straus." *Aquatic Toxicology* **1992**, *22*(1):53-59; doi:10.1016/0166-445X(92)90035-L.

Dokianakis SN, Kornaros ME, and Lyberatos G. "On the effect of pharmaceuticals on bacterial nitrite oxidation." *Water Science and Technology* **2004**, *50*(5):341-346.

Dolan DG, Naumann BD, Sargent EV, Maier A, and Dourson M. "Application of the threshold of toxicological concern concept to pharmaceutical manufacturing operations." *Regulatory Toxicology and Pharmacology* **2005**, *43*(1):1-9;

doi:10.1016/j.yrtph.2005.06.010.

Dolan DG, Naumann BD, Sargent EV, Maier A, and Dourson M. "Corrigendum to "Application of the threshold of toxicological concern concept to pharmaceutical manufacturing operations" [Regul. Toxicol. Pharmacol. 43 (2005) 1-9]." *Regulatory Toxicology and Pharmacology* **2006**, *44*(2):189-189; doi:10.1016/j.yrtph.2005.10.005.

Dold P. "Modelling of pharmaceutical fate." 2006.

Doll TE and Frimmel FH. "Fate of pharmaceuticals--photodegradation by simulated solar UV-light." *Chemosphere* **2003**, *52*(10):1757-1769; doi:10.1016/S0045-6535(03)00446-6.

Doll TE and Frimmel FH. "Kinetic study of photocatalytic degradation of carbamazepine, clofibric acid, iomeprol and iopromide assisted by different TiO2 materials--determination of intermediates and reaction pathways." *Water Research* **2004**, *38*(4):955-964; doi:10.1016/j.watres.2003.11.009.

Doll TE and Frimmel FH. "Cross-flow microfiltration with periodical back-washing for photocatalytic degradation of pharmaceutical and diagnostic residues-evaluation of the long-term stability of the photocatalytic activity of TiO2." *Water Research* **2005**, *39*(5):847-854; doi:10.1016/j.watres.2004.11.029.

Doll TE and Frimmel FH. "Removal of selected persistent organic pollutants by heterogeneous photocatalysis in water." *Catalysis Today* **2005**, *101*(3-4):195-202; doi:10.1016/j.cattod.2005.03.005.

Doll TE and Frimmel FH. "Photocatalytic degradation of carbamazepine, clofibric acid and iomeprol with P25 and Hombikat UV100 in the presence of natural organic matter (NOM) and other organic water constituents." *Water Research* **2005**, *39*(2-3):403-411; doi:10.1016/j.watres.2004.09.016.

Doll TE and Frimmel FH. "Photocatalytic degradation of carbamazepine, clofibric acid and iomeprol with P25 and Hombikat UV100 in the presence of natural organic matter (NOM) and other organic water constituents." *Water Research* **2005**, *39*(2-3):403-411; doi:10.1016/j.watres.2004.09.016.

Dolliver H and Gupta S. "Antibiotic losses in leaching and surface runoff from manure-amended agricultural land." *Journal of Environmental Quality* **2008**, *37*(3):1227-1237; doi:10.2134/jeq2007.0392.

Dolliver H, Gupta S, and Noll S. "Antibiotic degradation during manure composting." *Journal of Environmental Quality* **2008**, *37*(3):1245-1253; doi:10.2134/jeq2007.0399.

Dolliver H, Kumar K, and Gupta S. "Sulfamethazine Uptake by Plants from Manure-Amended Soil." *Journal of Environmental Quality* **2007**, *36*(4):1224-1230; doi:10.2134/jeq2006.0266.

Dolliver H, Kumar K, Gupta S, and Singh A. "Application of Enzyme-Linked Immunosorbent Assay Analysis for Determination of Monensin in Environmental Samples." *Journal of Environmental Quality* **2008**, *37*(3):1220-1226; doi:10.2134/jeq2007.0394.

Dolliver HAS and Gupta SC. "Antibiotic Losses from Unprotected Manure Stockpiles." *Journal of Environmental Quality* **2008**, *37*(3):1238-1244; doi:10.2134/jeq2007.0391.

Domènech X, Peral J, and Muñoz I. "Predicted Environmental Concentrations of Cocaine and Benzoylecgonine in a Model Environmental System." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.08.033.

Dominguez E, Narvaez A, and Gorton L. "Non-affinity sensing technology: the exploitation of biocatalytic events for environmental analysis." in *Biosensors and Modern Biospecific Analytical Techniques, XLIV - Comprehensive Analytical Chemistry*, Gorton L, Ed., Elsevier; Amsterdam, The Netherlands, 2005, Chapter 10, pp 429-537; doi:10.1016/S0166-526X(05)44010-6; http://www.sciencedirect.com/science/article/B7P66-4HV66KD-G/2/cea7aa4ca644401bbc191de1955521d6.

Donald T. "Acne medication may affect serotonin levels." *Pharmaceutical Formulation & Quality* **2008**, *9*(7):12-13.

Donaldson M and Hallelujah Acres Foundation. "Water - The choice of long-term health." 2007, 20 pp; http://www.hacres.com/diet/research/waterRevision.pdf.

Donaldson WT. "Trace organics in water." *Environmental Science & Technology* **1977**, *11*(4):348-351; doi:10.1021/es60127a012.

Donn J. "Narcotics under tight control -- until it's time to dump them." USA Today, 2008, Associated Press, 14 September http://www.usatoday.com/news/nation/environment/2008-09-14-water-narcotics_N.htm.

Donn J. "House panel pressed to consider more tracking of pharmaceuticals, contaminants in US waters." Star Tribune, 2008, 18 September http://tech.groups.yahoo.co/group/envecolnews/message/7135.

Donn J, Mendoza M, and Pritchard J. "Health facilities flush estimated 250M pounds of drugs a year." USA Today, 2008, Associated Press, 14 September http://www.usatoday.com/news/health/2008-09-14-drugs-flush-water_N.htm.

Donn J, Mendoza M, and Pritchard J. 2008, "Tons of drugs dumped into US wastewater system." LJWorld.com, 3 pp; http://www2.ljworld.com/news/2008/sep/15/tons_drugs_dumped_us_wastewater_system/.

Donn J, Mendoza M, and Pritchard J. 2009, "Tons of released drugs taint US water." Associated Press, 3 pp; http://www.physorg.com/news159425418.html.

Donn J, Mendoza M, and Pritchard J. 2009, "AP IMPACT: Tons of released drugs taint US water." Forbes.com, http://www.forbes.com/feeds/ap/2009/04/19/ap6308336.html.

Donn J, Mendoza M, and Pritchard JB. "Relatively little advice offered on disposal of medications." USA Today, 2008, http://www.usatoday.com/news/nation/environment/2008-09-15-drugs-water-advice_N.htm.

Donn J, Mendoza M, and Prtichard J. 2009, "US Water Contaminated By Pharmaceutical Companies, Hospitals, Consumers." Huffington Post, 5 pp; http://www.huffingtonpost.com/2009/04/20/us-water-contaminated-by-_n_188852.html.

Donnelly K, Dorau T, Koslow M, and Lorenz S. "Valuing Water - A Globally Sustainable Approach for the Pharmaceutical Industry." Masters Dissertation, University of Michigan, School of Natural Resources and Environment, Ann Arbor, 2008. 111 pp; http://deepblue.lib.umich.edu/handle/2027.42/58622.

Donohue M, Baldwin LA, Leonard DA, Kostecki PT, and Calabrese EJ. "Effect of hypolipidemic drugs gemfibrozil, ciprofibrate, and clofibric acid on peroxisomal beta-oxidation in primary cultures of rainbow trout hepatocytes." *Ecotoxicology and Environmental Safety* **1993**, *26*(2):127-132; doi:10.1006/eesa.1993.1044.

Dorabawila N and Gupta G. "Endocrine disrupter--estradiol--in Chesapeake Bay tributaries." *Journal of Hazardous Materials* **2005**, *120*(1-3):67-71; doi:10.1016/j.jhazmat.2004.12.031.

Dordio A, Carvalho AJP, Teixeira DM, Dias CB, and Pinto AP. "Removal of pharmaceuticals in microcosm constructed wetlands using Typha spp. and LECA." *Bioresource Technology* **2010**, *101*(3):886-892; doi:10.1016/j.biortech.2009.09.001.

Dordio AV, Duarte C, Barreiros M, Carvalho AJP, Pinto AP, and da Costa CT. "Toxicity and removal efficiency of pharmaceutical metabolite clofibric acid by Typha spp. - Potential use for phytoremediation?" *Bioresource Technology* **2009**, *100*(3):1156-1161; doi:10.1016/j.biortech.2008.08.034.

Dordio AV, Estêvão Candeias AJ, Pinto AP, da Costa T, and Palace Carvalho AJ. "Preliminary media screening for application in the removal of clofibric acid, carbamazepine and ibuprofen by SSF-constructed wetlands." *Ecological Engineering* **2009**, *35*(2):290-302; doi:10.1016/j.ecoleng.2008.02.014.

Dordio AV, Teimao J, Ramalho I, Carvalho AJP, and Candeias AJE. "Selection of a support matrix for the removal of some phenoxyacetic compounds in constructed wetlands systems." *Science of the Total Environment* **2007**, *380*(1-3):237-246; doi:10.1016/j.scitotenv.2007.02.015.

Dorfman M. "Swimming in sewage - The Growing Problem of Sewage Pollution and How the Bush Administration Is Putting Our Health and Environment at Risk." Natural Resources Defense Council, Environmental Integrity Project, 2004, 82 pp; http://www.reefrelief.org/scientificstudies/swimminginsewage.pdf.

Dorne J, Ragas AMJ, Frampton GK, Spurgeon DS, and Lewis DF. "Trends in human risk assessment of pharmaceuticals." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1167-1172; doi:10.1007/s00216-006-0961-9.

Dorne JLCM, Skinner L, Frampton GK, Spurgeon DJ, and Ragas AMJ. "Human and environmental risk assessment of pharmaceuticals: differences, similarities, lessons from toxicology." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1259-1268; doi:10.1007/s00216-006-0963-7.

Dorosz P. "Guide Pratique des Médicaments Dorosz 2007." 2007, 27th ed., 1984 pp; http://www.amazon.fr/Dorosz-Guide-pratique-m%C3%A9dicaments-Philippe/dp/2224029675.

Dorts J, Richter CA, Wright-Osment MK, Ellersieck MR, Carter BJ, and Tillitt DE. "The genomic transcriptional response of female fathead minnows (Pimephales promelas) to an acute exposure to the androgen, 17β-trenbolone." *Aquatic Toxicology* **2009**, *91*(1):44-53; doi:10.1016/j.aquatox.2008.10.002.

dos Santos LF, Defrenne L, and Krebs-Brown A. "Comparison of three microbial assay procedures for measuring toxicity of chemical compounds: ToxAlert(R)10, CellSense and Biolog MT2 microplates." *Analytica Chimica Acta* **2002**, *456*(1):41-54; doi:10.1016/S0003-2670(01)00907-2.

dos Santos LM, Spicq A, New AP, Lo Biundo G, Wolff JC, and Edwards A. "Aerobic biotransformation of 4-fluorocinnamic acid to 4-fluorobenzoic acid." *Biodegradation* **2001**, *12*(1):23-29; doi:10.1023/A:1011973824171.

dos Santos LMF and Lo Biundo G. "Treatment of pharmaceutical industry process wastewater using the extractive membrane bioreactor." *Environmental Progress* **1999**, *18*(1):34-39; doi:10.1002/ep.670180118.

Dove A. "Drugs down the drain." *Nature Medicine* **2006**, *12*(4):376-377; doi:10.1038/nm0406-376.

Dowling VA and Sheehan D. "Proteomics as a route to identification of toxicity targets in environmental toxicology." *Proteomics* **2006**, *6*(20):5597-5604; doi:10.1002/pmic.200600274.

Downing C. "Photolysis of Venlafaxine and Paroxetine in Aqueous Solutions." College of Saint Benedict and Saint John's University, Minnesota, 6 May, 2004, http://michaelross.efoliomn2.com/vertical/Sites/%7B9ECE9EFD-AAE5-4344-B08C-333A8D2E975B%7D/uploads/%7B13D05221-0B48-4765-908F-A940B90BC837%7D.PDF.

Doyle CJ and Lim RP. "Sexual behavior and impregnation success of adult male mosquitofish following exposure to 17β-estradiol." *Ecotoxicology and Environmental Safety* **2005**, *61*(3):392-397; doi:10.1016/j.ecoenv.2004.10.012.

Doyle WR and Schmitter R. "Overview of Clandestine Methamphetamine Laboratories." USEPA 24 April 2008; video available: http://r4intranet.epa.gov/waste/videos/methlabs.htm.

Draisci R, Marchiafava C, Ferretti E, Palleschi L, Catellani G, and Anastasio A. "Evaluation of musk contamination of freshwater fish in Italy by accelerated solvent extraction and gas chromatography with mass spectrometric detection." *Journal of Chromatography A* **1998**, *814*(1-2):187-197; doi:10.1016/S0021-9673(98)00396-3.

Drake AA. "Policy options for the collection and disposal of household pharmaceuticals." Masters Dissertation, Tufts University, Boston, MA, 2008. 74 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2306516,FM=9,SEARCH=MD.GenericSearch.

Draper Inc. "Tattoos Used To Control Diabetes: Massachusetts-based Draper Laboratories is developing a special tattoo ink that changes color based on glucose levels inside the skin." *Diabetes In Control* **2009**, (457).

Drewes JE. "Fate and transport of organic constituents during groundwater recharge using water of impaired quality." in *Wastewater Re-use and Groundwater Quality*, Steenvoorden J and Endreny T, Eds., International Association of Hydrological Sciences, IAHS Press; Oxfordshire, UK, 2004, pp 85-91; http://books.google.com/books?hl=en&lr=&id=NLWF6OtZDmkC&oi=fnd&pg=PA85&dq=daughton+sewage&ots=9-c7IZzDW9&sig=snU6m7lrM3F3-V3WuqWWqeCHZ-k#v=onepage&q=daughton%20sewage&f=false.

Drewes JE. "Removal of pharmaceuticals in wastewater and drinking water treatments – Removal of pharmaceutical residues during wastewater treatment." in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science; 2007, Wilson & Wilson's Comprehensive Analytical Chemistry, 4.1, pp 427-429; http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Drewes JE, Fox P, and Jekel M. "Occurrence of iodinated X-ray contrast media in domestic effluents and their fate during indirect potable reuse." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2001**, *A36*(9):1633-1645.

Drewes JE, Heberer T, Rauch T, and Reddersen K. "Fate of pharmaceuticals during ground water recharge." *Ground Water Monitoring & Remediation* **2003**, *23*(3):64-72; doi:10.1111/j.1745-6592.2003.tb00684.x.

Drewes JE, Heberer T, and Reddersen K. "Fate of pharmaceuticals during indirect potable reuse." *Water Science and Technology* **2002**, *46*:73-80.

Drewes JE, Hemming J, Ladenburger SJ, Schauer J, and Sonzogni W. "An assessment of endocrine disrupting activity changes during wastewater treatment through the use of bioassays and chemical measurements." *Water Environment Research* **2005**, *77*(1):12-23; doi:10.2175/106143005X41573.

Drewes JE, Hemming JD, and Schauer JJ. "Removal of Endocrine Disrupting Compounds in Water Reclamation Processes." Water Environment Research Foundation (WERF), 2008, 180 pp; http://search.barnesandnoble.com/Removal-of-Endocrine-Disrupting-Compounds-in-Water-Reclamation-Processes/Jrg-E-Drewes/e/9781843397588.

Drewes JE, Hoppe C, and Jennings T. "Fate and transport of N-nitrosamines under conditions simulating full-scale groundwater recharge operations." *Water Environment Research* **2006**, *78*(13):2466-2473; doi:10.2175/106143006X115408.

Drewes JE, Reinhard M, and Fox P. "Comparing microfiltration-reverse osmosis and soil-aquifer treatment for indirect potable reuse of water." *Water Research* **2003**, *37*(15):3612-3621; doi:10.1016/S0043-1354(03)00230-6.

Drewes JE and Shore LS. "Concerns about pharmaceuticals in water reuse, groundwater recharge, and animal waste." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series, Chapter 12, pp 206-228; doi:10.1021/bk-2001-0791.ch012; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Drews J. "Drug discovery: A historical perspective." *Science* **2000**, *287*(5460):1960-1964; doi:10.1126/science.287.5460.1960.

Drillia P, Dokianakis SN, Fountoulakis MS, Kornaros M, Stamatelatou K, and Lyberatos G. "On the occasional biodegradation of pharmaceuticals in the activated sludge process: The example of the antibiotic sulfamethoxazole." *Journal of Hazardous Materials* **2005**, *122*(3):259-265; doi:10.1016/j.jhazmat.2005.03.009.

Drillia P, Stamatelatou K, and Lyberatos G. "Fate and mobility of pharmaceuticals in solid matrices." *Chemosphere* **2005**, *60*(8):1034-1044; doi:10.1016/j.chemosphere.2005.01.032.

Drover VJ and Bottaro CS. "Determination of pharmaceuticals in drinking water by CD-modified MEKC: Separation optimization using experimental design." *Journal of Separation Science* **2008**, *31*(21):3740-3748; doi:10.1002/jssc.200800337.

Drug Topics "Pharmacy Facts & Figures." 2009; http://drugtopics.modernmedicine.com/drugtopics/article/articleList.jsp?categoryId=7604.

Drug Topics. "Top 200 Drugs: A 5-Year Compilation (Updated with New Data 2004-2008)." 2009; http://www.industrymatter.com/top200drugsa5-yearcompilationupdatedwith2008data.aspx.

DrugLib.com "Drug information portal." DrugLib.com 2008; http://www.druglib.com/.

DrugMetZ DB "A database on human drug metabolizing Cytochromes." 2008; http://www.bicpu.edu.in/DrugMetZDB/index.htm.

Drugs.com "Drug information online." 2008; http://www.drugs.com/.

D'Ruiz CD. "TlNOSORB® M: Methylene Bis-Benzotriazolyl Tetramethylbutylphenoi (MBBT). Next Generation UV Filter for Sun Protection." 5 September, 2000, 25 pp; http://www.fda.gov/ohrms/dockets/dailys/00/Sep00/090600/cp00001_attachment_04.pdf.

Drury DD, Snyder SA, and Wert EC. "Using ozone disinfection for EDC removal." Water Environment Foundation, Las Vegas, NV, 2006, 1249-1256 pp.

Dsikowitzky L, Schwarzbauer J, Kronimus A, and Littke R. "The anthropogenic contribution to the organic load of the Lippe River (Germany). Part I: qualitative characterisation of low-molecular weight organic compounds." *Chemosphere* **2004**, *57*(10):1275-1288; doi:10.1016/j.chemosphere.2004.08.052.

Dsikowitzky L, Schwarzbauer J, and Littke R. "Distribution of polycyclic musks in water and particulate matter of the Lippe River (Germany)." *Organic Geochemistry* **2002**, *33*(12):1747-1758; doi:10.1016/S0146-6380(02)00115-8.

Dsikowitzky L, Schwarzbauer J, and Littke R. "The anthropogenic contribution to the organic load of the Lippe River (Germany). Part II: quantification of specific organic contaminants." *Chemosphere* **2004**, *57*(10):1289-1300; doi:10.1016/j.chemosphere.2004.08.053.

Duarte ICS, Oliveira LL, Buzzini AP, Adorno MAT, and Varesche MBA. "Development of a method by HPLC to determine LAS and its application in anaerobic reactors." *Journal of the Brazilian Chemical Society* **2006**, *17*(7):1360-1367; doi:10.1590/S0103-50532006000700025.

Dubiella-Jackowska A, Palowska Z, and Namieńnik J. "Platinum Group Elements in the Environment: Emissions and Exposure." in *Reviews of Environmental Contamination and Toxicology*, Whitacre DM, Ed., Springer; 2008, Chapter 3, pp 111-135; doi:10.1007/978-0-387-09808-1_3; http://springerlink.com/content/gj57rq1tl2528356/fulltext.pdf.

Dubin CH, "Nothing to sneeze at." *Pharmaceutical Formulation & Quality*, June-July, 2002, 4 3: 41-44 pp; http://www.optinose.com/publications/.

Dubois RW. "Pharmaceutical Promotion: Don't Throw The Baby Out With The Bathwater." *Drug Ads* **2003**, *W3-103*:96-103.

Dubois RW, Batchlor E, and Wade S. "Geographic Variation In The Use Of Medications: Is Uniformity Good News Or Bad?" *Health Affairs* **2002**, *21*(1):240-250.

Duca G and Boldescu V. "Pharmaceuticals and Personal Care Products in the Environment." in *The Role of Ecological Chemistry in Pollution Research and Sustainable Development*, Bahadir AM and Duca G, Eds., Springer; Netherlands, 2009, pp 27-35; doi:10.1007/978-90-481-2903-4_3; http://dx.doi.org/10.1007/978-90-481-2903-4_3.

Duchowicz PR, Talevi A, Bruno-Blanch LE, and Castro EA. "New QSPR study for the prediction of aqueous solubility of drug-like compounds." *Bioorganic & Medicinal Chemistry* **2008**, *16*(17):7944-7955; doi:10.1016/j.bmc.2008.07.067.

Duedahl-Olesen L, Cederberg T, Pedersen KH, and Hojgard A. "Synthetic musk fragrances in trout from Danish fish farms and human milk." *Chemosphere* **2005**, *61*(3):422-431; doi:10.1016/j.chemosphere.2005.02.004.

Dufresne G, Fouquet A, Forsyth D, and Tittlemier SA. "Multiresidue determination of quinolone and fluoroquinolone antibiotics in fish and shrimp by liquid chromatography/tandem mass spectrometry." *Journal of AOAC International* **2007**, *90*(2):604-612.

Dulin R, Silberstein N, Bonnin M, and Saux M-C. "Comparison and practical guidelines of selective serotonin reuptake inhibitors [Comparaison et critères de choix des inhibiteurs sélectifs de la recapture de la sérotonine]." *Journal de Pharmacie Clinique* **2002**, *21*(1):39-46.

Duncan D. 2008, "Is It Time to Kill Off the Flush Toilet?" Time News, http://www.time.com/time/health/article/0,8599,1857113,00.html.

Dunford R, Salinaro A, Cai L, Serpone N, Horikoshi S, Hidaka H*, et al.* "Chemical oxidation and DNA damage catalysed by inorganic sunscreen ingredients." *FEBS Letters* **1997**, *418*(1-2):87-90; doi:10.1016/S0014-5793(97)01356-2.

Dunkley RI. "Drug donations: let us get it right." *The Pharmaceutical Journal* **2005**, *274*(7332):54.

Dunn PJ, Galvin S, and Hettenbach K. "The development of an environmentally benign synthesis of sildenafil citrate (Viagra) and its assessment by Green Chemistry metrics." *Green Chemistry* **2004**, *6*(1):43-48.

Duong HA, Pham NH, Nguyen HT, Hoang TT, Pham HV, Pham VC*, et al.* "Occurrence, fate and antibiotic resistance of fluoroquinolone antibacterials in hospital wastewaters in Hanoi, Vietnam." *Chemosphere* **2008**, *72*(6):968-973; doi:10.1016/j.chemosphere.2008.03.009.

Dupont B. "An epidemiological review of systemic fungal infections." *J De Mycologie Medicale* **2002**, *12*:163-173.

Durán-Alvarez JC, Becerril-Bravo E, Castro VS, Jiménez B, and Gibson R. "The analysis of a group of acidic pharmaceuticals, carbamazepine, and potential endocrine disrupting compounds in wastewater irrigated soils by gas chromatography-mass spectrometry." *Talanta* **2009**, *78*(3):1159-1166; doi:10.1016/j.talanta.2009.01.035.

Durhan EJ, Lambright CS, Makynen EA, Lazorchak J, Hartig PC, Wilson VS*, et al.* "Identification of metabolites of trenbolone acetate in androgenic runoff from a beef feedlot." *Environmental Health Perspectives* **2006**, *114*(1):65-68.

Dussault E, Balakrishnan V, Sverko E, Solomon K, and Sibley P. "Toxicity of Human Pharmaceutical and Personal Care Products to Benthic Invertebrates." *Environmental Toxicology and Chemistry* **2008**, *27*(1):425-432; doi:10.1897/07-354.

Dussault E, Solomon K, and Sibley P. "Aquatic toxicity of carbamazepine, atorvastatin and triclosan to benthic invertebrates." *SETAC 25th Annual Meeting* **2004**.

Dussault ÈB, Balakrishnan VK, Borgmann U, Solomon KR, and Sibley PK. "Bioaccumulation of the synthetic hormone 17α-ethinylestradiol in the benthic invertebrates Chironomus tentans and Hyalella azteca." *Ecotoxicology and Environmental Safety* **2009**,

72(6):1635-1641; doi:10.1016/j.ecoenv.2009.04.019.

Dussault EB, Balakrishnan VK, Solomon KR, and Sibley PK. "Chronic toxicity of the synthetic hormone 17α-ethinylestradiol to chironomus tentans and hyalella azteca." *Environmental Toxicology and Chemistry* **2008**, *27*(12):2521-2529; doi:10.1897/08-005.1.

Dussault **ÈB**, Balakrishnan VK, Solomon KR, and Sibley PK. "Matrix effects on mass spectrometric determinations of four pharmaceuticals and personal care products in water, sediments, and biota." *Canadian Journal of Chemistry* **2009**, *87*(5):662-672; doi:10.1139/V09-042.

Duty SM, Ackerman RM, Calafat AM, and Hauser R. "Personal care product use predicts urinary concentrations of some phthalate monoesters." *Environmental Health Perspectives* **2005**, *113*(11):1530-1535; doi:10.1289/ehp.8083.

DVGW. "Residues of pharmaceuticals in water sample: results and their assessment from the point of view of drinking water supply." Deutsche Vereinigung des Gas- und Wasserfaches e.V, 1999.

Dvorak J, Hajkova R, Matysova L, Novakova L, Koupparis MA, and Solich P. "Simultaneous HPLC determination of ketoprofen and its degradation products in the presence of preservatives in pharmaceuticals." *Journal of Pharmaceutical and Biomedical Analysis* **2004**, *36*(3):625-629; doi:10.1016/j.jpba.2004.07.018.

Dye C, Kylin H, and Schlabach M. "Sucralose – a new persistent pollutant in the environment?" Norwegian Institute for Air Research (NILU) 2007; http://www.nilu.no/niluweb/leverfil.cfm/pp_08_2007_cd.pdf?id=22461&type=6.

Dye C, Schlabach M, Green J, Remberger M, Kaj L, Palm-Cousins A*, et al.* "Bronopol, Resorcinol, m-Cresol and Triclosan in the Nordic Environment." *Norden* **2007**:83.

Dyer SD, Brooks GL, Dickson KL, Sanders BM, and Zimmerman EG. "Synthesis and accumulation of stress proteins in tissues of arsenite-exposed fathead minnows (pimephales promelas)." *Environmental Toxicology and Chemistry* **1993**, *12*(5):913-924; doi:10.1897/1552-8618(1993)12[913:SAAOSP]2.0.CO;2.

Dynes JJ, Lawrence JR, Korber DR, Swerhone GDW, Leppard GG, and Hitchcock AP. "Quantitative mapping of chlorhexidine in natural river biofilms." *Science of the Total Environment* **2006**, *369*(1-3):369-383; doi:10.1016/j.scitotenv.2006.04.033.

Dzialowski EM, Turner PK, and Brooks BW. "Physiological and reproductive effects of beta adrenergic receptor antagonists in Daphnia magna." *Archives of Environmental Contamination and Toxicology* **2006**, *50*(4):503-510; doi:10.1007/s00244-005-0121-9.

Eaton A. "Laboratory Analysis of EDCs and PPCPs in the Environment." *Southwest Hydrology* **2003**:16-17.

Ebbett VR. "The Chlorination of Triclosan: A Kinetic Study." Masters Dissertation, Virginia Tech, 2003. http://scholar.lib.vt.edu/theses/available/etd-07032003-084832/.

Ebi KL, Kovats RS, and Menne B. "An approach for assessing human health vulnerability and public health interventions to adapt to climate change." *Environmental Health Perspectives* **2006**, *114*(12):1930-1934.

Ebinghaus R and Xie Z. "Occurrence and air/sea-exchange of novel organic pollutants in the marine environment." *Journal de Physique* **2006**, *139*:211-237.

Ebrahimzadeh H, Yamini Y, Gholizade A, Sedighi A, and Kasraee S. "Determination of fentanyl in biological and water samples using single-drop liquid-liquid-liquid microextraction coupled with high performance liquid chromatography." *Analytica Chimica Acta* **2008**, *626*(2):193-199; doi:10.1016/j.aca.2008.07.047.

Ebringer L, Krajčovič J, Polónyi J, Lahitová N, Doupovcová M, and Dobias J. "Tetracycline reduces fluoroquinolones-induced bleaching of Euglena gracilis." *Mutation Research/Reviews in Genetic Toxicology* **1996**, *340*(2-3):141-149; doi:10.1016/S0165-1110(96)90045-7.

EC "Endocrine Disrupters Website: How the European Commission uses the precautionary principle to tackle endocrine disrupters." 2008, http://ec.europa.eu/environment/endocrine/index_en.htm http://ec.europa.eu/environment/endocrine/strategy/substances_en.htm.

EC "European Technology Platform NANOMEDICINE." Web Page maintained by European Council 2009, http://cordis.europa.eu/nanotechnology/nanomedicine.htm.

EC/SCCP, SCHER, and SCENIHR. "Draft Opinion on Use of the Threshold of Toxicological Concern (TTC) Approach for the Safety

Assessment of Chemical Substances." European Community/Scientific Committee on Consumer Products, Scientific Committee on Health and Environmental Risks, Scientific Committee on Emerging and Newly-Identified Health Risks, 19 November, 2008, 47 pp; http://ec.europa.eu/health/ph_risk/committees/documents/sc_o_001.pdf.

EC/SCENIHR. "Preliminary report on The safety of medical devices containing DEHP-plasticized PVC or other plasticizers on neonates and other groups possibly at risk." European Community/Scientific Committee on Emerging and Newly-Identified Health Risks, 21-22 June, 2007, 84 pp; http://www.google.com/search?sourceid=navclient&ie=UTF-8&rlz=1T4GGLG_enUS308US309&q=OPINION+ON+THE+SAFETY+OF+MEDICAL+DEVICES+CONTAINING+DEHPPLASTICIZED+PVC+OR+OTHER+PLASTICIZERS+ON+NEONATES+AND+OTHER+GROUPS+POSSIBLY+AT+RISK.

EC/SCENIHR. "Assessment of the antibiotic resistance effects of biocides." European Commission/Scientific Committee on Emerging and Newly Identified Health Risks, 19 January, 2009, 71 pp; http://ec.europa.eu/health/ph_risk/committees/04_scenihr/docs/scenihr_o_021.pdf.

ECHA "Candidate List of Substances of Very High Concern for authorisation." Web Page maintained by European Chemicals Agency 2008, http://echa.europa.eu/chem_data/candidate_list_table_en.asp.

ECHA. "Candidate List of Substances of Very High Concern brings new duties for companies." European Chemicals Agency, ECHA/PR/08/38-REV, Helsinki, Finland, 28 October-4 November, 2008, 3 pp; http://echa.europa.eu/doc/press/pr_08_38_candidate_list_20081028.pdf.

ECHA. "Support document for identification of 5-tert-butyl-2,4,6-trinitro-m-xylene as a substance of very high concern." European Chemicals Agency, EC number: 201-329-4 CAS number: 81-15-2, Helsinki, Finland, 28 October, 2008, 30 pp; http://echa.europa.eu/doc/candidate_list/svhc_supdoc_muskxylene_publication.pdf.

Eckel WP. "Comment on 'Pharmaceuticals, hormones, and other organic wastewater contaminants in US streams, 1999-2000: A national reconnaissance'." *Environmental Science & Technology* **2002**, *36*(18):4003.

Eckel WP, Ross B, and Isensee RK. "Pentobarbital found in ground water." *Ground Water* **1993**, *31*(5):801-804; doi:10.1111/j.1745-6584.1993.tb00853.x.

Eckerman I and Martineus J-C. "Medicines and the environment - what do we know today?" Swedish Association of Physicians for the Environment, Gray M, Ed., Stockholm, Sweden, 1997, 26 pp; http://www.dnsy.se/_upload/lfm/medicines%20and%20the%20environment.pdf.

Edhlund BL, Arnold WA, and McNeill K. "Aquatic Photochemistry of Nitrofuran Antibiotics." *Environmental Science & Technology* **2006**, *40*(17):5422-5427.

Edwards CA, Atiyeh RM, and Römbke J. "Environmental Impact of Avermectins." *Reviews of Environmental Contamination and Toxicology* **2001**, *171*:111-137.

Edwards H, Kostrzewa M, and Looby G. "Environmental Research Brief: Pollution prevention assessment for a manufacturer of pharmaceuticals." EPA/600/S-95/030, USEPA, 23 April 1995. 6 pp; http://www.osti.gov/servlets/purl/111855-tiXJut/webviewable/.

Edwards M, Topp E, Metcalfe CD, Li H, Gottschall N, Bolton P*, et al.* "Pharmaceutical and personal care products in tile drainage following surface spreading and injection of dewatered municipal biosolids to an agricultural field." *Science of the Total Environment* **2009**, *407*(14):4220-4230; doi:10.1016/j.scitotenv.2009.02.028.

EEA and ENEP. "Chemicals in the European Environment: Low Doses, High Stakes?" European Environment Agency, Copenhagen, Denmark, 21 July 1999. 33 pp; http://www.unep.ch/roe/publications/assessment/02_chemicals.pdf.

Efroymson RA, Jones DS, and Gold AJ. "An Ecological Risk Assessment Framework for Effects of Onsite Wastewater Treatment Systems and Other Localized Sources of Nutrients on Aquatic Ecosystems." *Human and Ecological Risk Assessment* **2007**, *13*(3):574 - 614; doi:10.1080/10807030701341142.

Efstathiou CE. "On the sampling variance of ultra-dilute solutions." *Talanta* **2000**, *52*(4):711-715; doi:10.1016/S0039-9140(00)00429-X.

Eganhouse RP and Sherblom PM. "Anthropogenic organic contaminants in the effluent of a combined sewer overflow: impact on Boston Harbor." *Marine Environmental Research* **2001**, *51*(1):51-74; doi:10.1016/S0141-1136(00)00035-0.

Eggen RIL, Behra R, Burkhardt-Holm P, Escher BI, and Schweigert N. "Challenges in ecotoxicology." *Environmental Science &*

Technology **2004**, *38*(3):58A-64A; doi:10.1021/es040349c.

Eguchi K, Nagase H, Ozawa M, Endoh YS, Goto K, Hirata K*, et al.* "Evaluation of antimicrobial agents for veterinary use in the ecotoxicity test using microalgae." *Chemosphere* **2004**, *57*(11):1733-1738; doi:10.1016/j.chemosphere.2004.07.017.

eHealth Initiative. "E-Prescribing: Becoming Mainstream Practice." eHealth Initiative, Washington, DC, June, 2008, 68 pp; http://www.ehealthinitiative.org/assets/Documents/eHI_CIMM_ePrescribing_Report_6-10-08_FINAL.pdf.

eHealth Initiative "eHealth Initiative." Web Page maintained by eHealth Initiative, Foundation for eHealth Initiative 2008, http://www.ehealthinitiative.org/.

Ehleringer JR, Casale J, Cooper DA, and Lott MJ. "Sourcing drugs with stable isotopes." in ONDCP Symposium, San Diego, Washington, DC, 2001, 12 pp; http://ecophys.biology.utah.edu/Labfolks/Ehleringer/Publications/272.pdf.

Ehleringer JR, Casale J, Cooper DA, Lott MJ, and Ford VL. "Tracing origins of cocaine with stable isotopes." *Nature* **2000**, *408*:311-312; doi:10.1038/35042680.

Ehrlich M, Trittler R, Daschner FD, and Kümmerer K. "A new and rapid method for monitoring the new oxazolidinone antibiotic linezolid in serum and urine by high performance liquid chromatography-integrated sample preparation." *Journal of Chromatography B* **2001**, *755*(1-2):373-377; doi:10.1016/S0378-4347(01)00115-3.

Eichhorn P and Aga DS. "Identification of a photooxygenation product of chlortetracycline in hog lagoons using LC/ESI-ion trap-MS and LC/ESI-time-of-flight-MS." *Analytical Chemistry* **2004**, *76*(20):6002-6011; doi:10.1021/ac0494127.

Eichhorn P, Ferguson PL, Perez S, and Aga DS. "Application of Ion Trap-MS with H/D Exchange and QqTOF-MS in the Identification of Microbial Degradates of Trimethoprim in Nitrifying Activated Sludge." *Analytical Chemistry* **2005**, *77*(13):4176-4184; doi:10.1021/ac050141p.

Eichorst S, Pfeifer A, Magill NG, and Tischler ML. "Antibiotic resistance among bacteria isolated from wild populations of resident Canada Geese in a suburban setting." in American Society for Microbiology 99th Annual Meeting, Chicago, IL, 1999.

Eickhoff P, Heineck I, and Seixas LJ. "Gerenciamento e destinação final de medicamentos: uma iscussão sobre o problema [Management and medicines. disposal: a discussion about the problem]." *Rev Bras Farm* **2009**, *90*(1):64-68.

Eimon PM and Rubinstein AL. "The use of in vivo zebrafish assays in drug toxicity screening." *Expert Opinion on Drug Metabolism & Toxicology* **2009**, *5*(4):393-401; doi:10.1517/17425250902882128.

Einsle T, Paschke H, Bruns K, Schrader S, Popp P, and Moeder M. "Membrane-assisted liquid-liquid extraction coupled with gas chromatography-mass spectrometry for determination of selected polycyclic musk compounds and drugs in water samples." *Journal of Chromatography A* **2006**, *1124*(1-2):196-204; doi:10.1016/j.chroma.2006.06.093.

Eisenbrand G, Pool-Zobel B, Baker V, Balls M, Blaauboer BJ, Boobis A*, et al.* "Methods of in vitro toxicology." *Food and Chemical Toxicology* **2002**, *40*(2-3):193-236.

Eisler R. "Gold concentrations in abiotic materials, plants, and animals: A synoptic review." *Environmental Monitoring and Assessment* **2004**, *90*(1-3):73-88; doi:10.1023/B:EMAS.0000003567.66682.d8.

Eitel DF. "Managing medical waste technology: how US hospitals adapted to change." *International Journal of Technology Management* **1998**, *15*(3-5):402-420; doi:10.1504/IJTM.1998.002608.

Ekedahl A. "Statistics on local drug sales: A tool to identify problem areas and to follow effects of education on drug use." Lund University, Department of Community Medicine, Malmö University Hospital, Lund, Sweden, 2002. 54 pp; http://www.lub.lu.se/luft/diss/med638.pdf.

Ekedahl A. "Unused drugs returned to pharmacies - a few patients return a large proportion of the unused drugs." *Journal of Social and Administrative Pharmacy* **2003**, *20*(4):257-258.

Ekedahl A. "Reasons why medicines are returned to Swedish pharmacies unused." *Pharmacy World and Science* **2006**, *28*(6):352-358.

Ekedahl A, Wergeman L, and Rydberg T. "Unused drugs in Sweden measured by returns to pharmacies." *Journal of Social and Administrative Pharmacy* **2003**, *20*(1):26-31.

Ekman D, Teng Q, Villeneuve D, Kahl M, Jensen K, Durhan E*, et al.* "Investigating compensation and recovery of fathead minnow (Pimephales promelas) exposed to 17α-ethynylestradiol with metabolite profiling." *Environmental Science & Technology* **2008**, *42*(11):4188-4194; doi:10.1021/es8000618.

El Amari EB, Chamot E, Auckenthaler R, Pechere JC, and Van Delden C. "Influence of previous exposure to antibiotic therapy on the susceptibility pattern of Pseudomonas aeruginosa bacteremic isolates." *Clinical Infectious Diseases* **2001**, *33*:1859-1864.

el Kouni MH. "Potential chemotherapeutic targets in the purine metabolism of parasites." *Pharmacology & Therapeutics* **2003**, *99*(3):283-309; doi:10.1016/S0163-7258(03)00071-8.

El-Baqary RI, Razek TMA, and Ramadan AE. "Chlorodesmethyldiazepam Fluorimetric Determination in Pharmaceutical Formulations and in Aqueous Media." *Analytical Letters* **2007**, *40*(12):2295 - 2300; doi:10.1080/00032710701576015.

Elbaz-Poulichet F, Seidel J-L, and Othoniel C. "Occurrence of an anthropogenic gadolinium anomaly in river and coastal waters of Southern France." *Water Research* **2002**, *36*(4):1102-1105; doi:10.1016/S0043-1354(01)00370-0.

Elema MO, Hoff KA, and Kristensen HG. "Bioavailability of oxytetracycline from medicated feed administered to Atlantic salmon (Salmo salar L.) in seawater." *Aquaculture* **1996**, *143*(1):7-14; doi:10.1016/0044-8486(96)01253-7.

elephant Pharm "Medicine disposal the safe, earth-friendly way." 2008, http://www.elephantpharm.com/greenpharmacy.

Elias EE, Kalombo E, and Mercurio SD. "Tamoxifen protects against 17α-ethynylestradiol-induced liver damage and the development of urogenital papillae in the rainbow darter (etheostoma caeruleum)." *Environmental Toxicology and Chemistry* **2007**, *26*(9):1879-1889; doi:10.1897/06-170R.1.

Elisseeff J, McIntosh W, Anseth K, Riley S, Ragan P, and Langer R. "Photoencapsulation of chondrocytes in poly(ethylene oxide)-based semi-interpenetrating networks." *Journal of Biomedical Materials Research* **2000**, *51*(2):164-171; doi:10.1002/(SICI)1097-4636(200008)51:2<164::AID-JBM4>3.0.CO;2-W.

Ellis J. 2009, "The expanding role of biocides in medical devices." 9 pp; http://cleanroomsfaq.blogspot.com/2009/04/expanding-role-of-biocides-in-medical.html.

Ellis JB. "Pharmaceutical and personal care products (PPCPs) in urban receiving waters." *Environmental Pollution* **2006**, *144*(1):184-189; doi:10.1016/j.envpol.2005.12.018.

Ellis RJ and Pinheiro TJT. "Danger - misfolding proteins." *Nature* **2002**, *416*: 483-484; doi:10.1038/416483a.

Elmolla E and Chaudhuri M. "Optimization of Fenton process for treatment of amoxicillin, ampicillin and cloxacillin antibiotics in aqueous solution." *Journal of Hazardous Materials* **2009**, *170*(2-3):666-672; doi:10.1016/j.jhazmat.2009.05.013.

Elmolla ES and Chaudhuri M. "Degradation of the antibiotics amoxicillin, ampicillin and cloxacillin in aqueous solution by the photo-Fenton process." *Journal of Hazardous Materials* **2009**, *172*(2-3):1476-1481; doi:10.1016/j.jhazmat.2009.08.015.

Elmolla ES and Chaudhuri M. "Photocatalytic degradation of amoxicillin, ampicillin and cloxacillin antibiotics in aqueous solution using UV/TiO2 and UV/H2O2/TiO2 photocatalysis." *Desalination* **2009**, *In Press*; doi:10.1016/j.desal.2009.11.003.

Elmolla ES and Chaudhuri M. "Degradation of amoxicillin, ampicillin and cloxacillin antibiotics in aqueous solution by the UV/ZnO photocatalytic process." *Journal of Hazardous Materials* **2010**, *173*(1-3):445-449; doi:10.1016/j.jhazmat.2009.08.104.

Elo B, Villano CM, Govorko D, and White LA. "Larval zebrafish as a model for glucose metabolism: expression of phosphoenolpyruvate carboxykinase as a marker for exposure to anti-diabetic compounds." *Journal of Molecular Endocrinology* **2007**, *38*(4):433-440; doi:10.1677/jme-06-0037.

Elskus AA. "Estradiol and estriol suppress CYP1A expression in rainbow trout primary hepatocytes." *Marine Environmental Research* **2004**, *58*(2-5):463-467; doi:10.1016/j.marenvres.2004.03.029.

Elvers KT and Wright SJL. "Antibacterial activity of the anti-inflammatory compound ibuprofen." *Letters in Applied Microbiology* **1995**, *20*(2):82-84; doi:10.1111/j.1472-765X.1995.tb01291.x.

Emara S, El-Gindy A, El-Shorbagi A-N, and Hadad G. "Utility of copper(II) oxide as a packed reactor in flow injection assembly for rapid analysis of some angiotensin converting enzyme inhibitors." *Analytica Chimica Acta* **2003**, *489*(1):115-123; doi:10.1016/S0003-2670(03)00712-8.

Ember LR. "Raising the bar for quality drugs - independent U.S. Pharmacopeia sets legal standards enforceable by FDA." *Chemical & Engineering News* **2001**, *79*(12):26-32.

Emblidge JP and DeLorenzo ME. "Preliminary risk assessment of the lipid-regulating pharmaceutical clofibric acid, for three estuarine species." *Environmental Research* **2006**, *100*(2):216-226; doi:10.1016/j.envres.2005.03.014.

EMCDDA. "In aquae veritas? First European meeting on drugs and their metabolites in waste water." European Monitoring Centre for Drugs and Drug Addication, 2007, http://www.emcdda.europa.eu/html.cfm/index31432EN.html.

EMCDDA. "Assessing illicit drugs in wastewater: potential and limitations of a new monitoring approach." European Monitoring Centre for Drugs and Drug Addiction, 2008, 2 pp; http://www.emcdda.europa.eu/attachements.cfm/att_65650_EN_Summary_Wastewater_EN_Final.pdf.

EMCDDA. "In aqua veritas? Assessing illicit drugs in wastewater - Wastewater analysis, a promising prospect for drug monitoring, says EMCDDA." European Monitoring Centre for Drugs and Drug Addiction, 2008, 1 pp; http://www.emcdda.europa.eu/attachements.cfm/att_65646_EN_WastewaterInsights_EN_Final.pdf.

EMEA. "The European Agency for the Evaluation of Medicinal Products: Veterinary Medicines Evaluation Unit, Environmental Risk Assessment for Veterinary Medical Products other than GMO-Containing and Immunological Products." 1997, 33 pp.

EMEA. "Trimethroprim summary report." 1997.

EMEA. "Guideline on Environmental Impact Assessment (EIAS) for Veterinary Medicinal Products -- Phase I." Medicine CfV, EMEA/CVMP/592/98, Rockville, MD, 1998. 9 pp.

EMEA. "Draft CPMP Discussion Paper on Environmental Risk Assessment of Medicinal Products for Human Use [Non-Genetically Modified Organism (Non-GMO) Containing]." Brussels, Belgium, 2001, 22 pp.

EMEA. "Guideline on environmental impact assessment for veterinary medicinal products in support of the VICH guidelines GL6 and GL38." Committee for Medicinal Products for Veterinary Use (CVMP), EMEA/CVMP/ERA/418282/2005-CONSULTATION, London, 18 January 2006. 59 pp; http://www.emea.europa.eu/pdfs/vet/era/41828205en.pdf.

EMEA European Medicine Agency. "Guidelines on the environmental risk assessment of medicinal products for human use." 2006, http://www.emea.eu.int/pdfs/human/swp/444700en.pdf.

EMEA European Medicines Agengy. "General considerations for clinical trials ICH Harmonised Tripartite Guideline." CPMP/ICH/291/95, Canary Wharf, London, England, March, 1998, 14 pp; www.emea.eu.int.

Emery RJ, Papadaki M, Freitas dos Santos LM, and Mantzavinos D. "Extent of sonochemical degradation and change of toxicity of a pharmaceutical precursor (triphenylphosphine oxide) in water as a function of treatment conditions." *Environment International* **2005**, *31*(2):207-211; doi:10.1016/j.envint.2004.09.017.

Emmanuel E, Hanna K, Bazin C, Keck G, Clement B, and Perrodin Y. "Fate of glutaraldehyde in hospital wastewater and combined effects of glutaraldehyde and surfactants on aquatic organisms." *Environment International* **2005**, *31*(3):399-406; doi:10.1016/j.envint.2004.08.011.

Emmanuel E, Keck G, Blanchard J-M, Vermande P, and Perrodin Y. "Toxicological effects of disinfections using sodium hypochlorite on aquatic organisms and its contribution to AOX formation in hospital wastewater." *Environment International* **2004**, *30*(7):891-900; doi:10.1016/j.envint.2004.02.004.

Emmanuel E, Perrodin Y, Keck G, Blanchard JM, and Vermande P. "Ecotoxicological risk assessment of hospital wastewater: a proposed framework for raw effluents discharging into urban sewer network." *Journal of Hazardous Materials* **2005**, *117*(1):1-11; doi:10.1016/j.jhazmat.2004.08.032.

Emmanuel E, Perrodin Y, Keck G, Blanchard J-M, and Vermande P. "Effects of hospitl wastewater on aquatic ecosystem." presented at XXVIII Congreso Interamericano de Ingeniería Sanitaria y Ambiental, 27-31 October, at Cancun, Mexico, 2002; http://www.bvsde.paho.org/bvsaidis/mexico26/xii-ii-001.pdf.

Emmanuel E, Pierre MG, and Perrodin Y. "Groundwater contamination by microbiological and chemical substances released from hospital wastewater: Health risk assessment for drinking water consumers." *Environment International* **2009**, *35*(4):718-726; doi:10.1016/j.envint.2009.01.011.

Emmanuel J, Hrdinka C, and Gluszynski P. "Non-incineration medical waste treatment technologies in Europe." June, 2004, http://www.env-health.org/IMG/pdf/altech_Europe_updated_version_10_12_2004.pdf.

Emre D and ÖzaltIn N. "Simultaneous determination of paracetamol, caffeine and propyphenazone in ternary mixtures by micellar electrokinetic capillary chromatography." *Journal of Chromatography B* **2007**, *847*(2):126-132; doi:10.1016/j.jchromb.2006.09.036.

ENDS. "Industry Glimpses New Challenges as Endocrine Science Advances." *The ENDS Report* **1999**, *290*(March):26-30.

ENDS. "A new focus on drugs in the environment." *The ENDS Report* **2000**, *304*:25-28.

ENDS. "Chasing environmental risk assessment for pharmaceuticals." *The ENDS Report* **2005**, *365*:29-32.

Engelhaupt E. "More triclosan trouble." *Environmental Science & Technology* **2007**, *41*(7):2072.

Engelmann R and Heidenreich Z, Editors. "Arzneimittelwirkstoffe, antibiotika und rontgenkontrastmittel in abwassereinleitungen und oberflachengewassern in sachsen (Medicine material report 2007: Drug active substances, antibiotics and Roentgen contrast means in sewage inlets and surface waters in Saxonia)." Sächsischen Landesamtes für Umwelt und Geologie (LfUG) herausgegeben (Saxon State Ministry of the Environment and Agriculture), August, 2007, 65 pp; http://www.smul.sachsen.de/smul/en/index.html http://www.smul.sachsen.de/lfug/5229.htm.

Engelmann U and Rohde S. "Active Drug Ingredients, Antibiotics, and X-Ray Contrast Agents in Sewage Discharges and Surface Waters in Saxony." *Abfall* **2009**, *55*(3):258-268.

Engemann C, Adams L, Knapp C, and Graham D. "Disappearance of oxytetracycline resistance genes in aquatic systems." *FEMS Microbiology Letters* **2006**, *263*(2):176-182; doi:10.1111/j.1574-6968.2006.00419.x.

Engemann CA, Keen PL, Knapp CW, Hall KJ, and Graham DW. "Fate of Tetracycline Resistance Genes in Aquatic Systems: Migration from the Water Column to Peripheral Biofilms." *Environmental Science & Technology* **2008**, *42*(14):5131-5136; doi:10.1021/es800238e.

Enick O. "Epistemic and non-epistemic values in risk assessment." *Integrated Environmental Assessment and Management* **2007**, *3*(2):301-303.

Enick OV. "Do Pharmaceutically Active Compounds Have an Ecological Impact?" Masters Dissertation, Simon Fraser University, Vancouver, British Columbia, Canada, 2006. 202 pp; http://ir.lib.sfu.ca/retrieve/2941/etd2250.pdf.

Enick OV and Moore MM. "Assessing the assessments: Pharmaceuticals in the environment." *Environmental Impact Assessment Review* **2007**, *27*(8):707-729; doi:10.1016/j.eiar.2007.01.001.

Enna SJ. "Drug stories-of origins and uses." *Science* **2000**, *288*(5469):1179-1180; doi:10.1126/science.288.5469.1179.

Enright A-M, Collins G, and O'Flaherty V. "Temporal microbial diversity changes in solvent-degrading anaerobic granular sludge from low-temperature (15ºC) wastewater treatment bioreactors." *Systematic and Applied Microbiology* **2007**, *30*(6):471-482; doi:10.1016/j.syapm.2007.03.005.

Enright A-M, McHugh S, Collins G, and O'Flaherty V. "Low-temperature anaerobic biological treatment of solvent-containing pharmaceutical wastewater." *Water Research* **2005**, *39*(19):4587-4596; doi:10.1016/j.watres.2005.08.037.

Enserink M. "Advice to vultures: Avoid Spanish livestock." *Science* **2009**.

Environment Agency. "Human Pharmaceuticals: Position Statement." 2003, http://www.environmentagency.gov.uk/aboutus/512398/289428/698017/?lang=_e.

Environment Canada. "Assessment and Management of Pharmaceuticals and Personal Care Products in the Canadian Environment." in Queen's Landing Inn, Niagara-on-the-Lake, 24-27 February, 2002.

Environment Canada "Backgrounder: Siloxanes D4, D5 and D6." Web Page maintained by Environment Canada 2008, http://www.ec.gc.ca/default.asp?lang=En&n=714D9AAE-1&news=546F7166-9C61-4CA5-BB67-804EC3F2A0ED.

Environmental Agency-UK. "Triclosan Briefing Note." 25 October, 2007, 8 pp; http://www.environment-agency.gov.uk/commondata/acrobat/triclosanbriefing_886859.pdf.

Environmental Working Group. "Comments from EWG on the U.S. FDA's Proposed Amendment of Final Monograph for Sunscreens." RIN: 0910-AF43, 26 November, 2007, 11 pp; http://www.cosmeticsdatabase.com/sunscreens.

Environmental Working Group "Skin deep: Safety guide to cosmetics and personal care products." EWG 2007; http://www.cosmeticsdatabase.com/index.php?nothanks=1.

Environmental Working Group EWG, University of Maryland School of Nursing, American Nurses Association ANA, and Health Care Without Harm. "Nurses' Health and Workplace Exposures to Hazardous Substances." 2007, 10 pp; http://www.ewg.org/sites/nurse_survey/analysis/summary.php.

Epel D. "Use of multidrug transporters as first lines of defense against toxins in aquatic organisms." *Comparative Biochemistry and Physiology, Part A: Molecular & Integrative Physiology* **1998**, *120*(1):23-28; doi:10.1016/S1095-6433(98)10005-3.

Epel D, Cole B, Hamdoun A, and Thurber RV. "The sea urchin embryo as a model for studying efflux transporters: Roles and energy cost." *Marine Environmental Research* **2006**, *62*(Supplement 1):S1-S4; doi:10.1016/j.marenvres.2006.04.062.

Epel D, Eufemia N, and Clerte S. "Multidrug/multixenobiotic transporters and their significance with respect to environmental levels of pharmaceuticals and personal care products." *Abstracts of Papers - American Chemical Society* **2000**, *219*(1, March 26):48-ENVR.

Epel D, Luckenbach T, Stevenson CN, MacManus-Spencer LA, Hamdoun A, and Smital T. "Efflux Transporters: Newly Appreciated Roles in Protection against Pollutants." *Environmental Science & Technology* **2008**, *42*(11):3914-3920.

Epel D and Smital T. "Multidrug - multixenobiotic transporters and their significance with respect to environmental levels of pharmaceuticals and personal care products." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 14, pp 244-263; doi:10.1021/bk-2001-0791.ch014; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Epstein D and Dohrmann G. "What You Don't Know Might Kill You: SUPPLEMENTS Would-be experts and untested products feed a $20 billion obsession with better performance across all levels of sports." *Sports Illustrated* **2009**, *110*(20).

Epstein E. "Emerging organic contaminants of concern from land application of biosolids." Water Environment Federation, 2004, 1009-1017 pp; http://www.ingentaconnect.com/content/wef/wefproc/2004/00002004/00000001/art00080.

ERAPharm. "Environmental risk assessment of pharmaceuticals - Publishable Final Activity Report." 21 December, 2007, 14 pp; http://www.erapharm.org/downloads/ERAPharm_publ_final_activity_report_2007.pdf.

ERAPharm "Environmental risk assessment of pharmaceuticals." 2008, http://www.erapharm.org/index.html.

Erbe T, Kümmerer K, Gartiser S, and Brinker L. "[Roentgen contrast media, source for AOX-contamination of waste water by hospitals]." *Rofo, Fortschritte auf dem Gebiete der Rontgenstrahlen und der Nuklearmedizin* **1998**, *169*(4):420-423.

Erickson BE. "Analyzing the ignored environmental contaminants." *Environmental Science & Technology* **2002**, *36*(7):140A-145A; doi:10.1021/es022497d.

Erickson BE. "Sunscreen safety - Lack of mandatory standards leads to widely variable products." *Chemical & Engineering News* **2008**, *86*(29):44.

Erickson BE. "Nanoceuticals: Dietary supplements made with nanotechnology are hitting the market with little government oversight." *Chemical & Engineering News* **2009**, *87*(6).

Erickson R, Nichols J, Cook P, and Ankley G. "Bioavailability of chemical contaminants in aquatic systems." in *The Toxicology of Fishes*, Di Giulio RT and Hinton DE, Eds., CRC Press; 2008, Chapter 2, pp 9-54; http://books.google.com/books?hl=en&lr=&id=aOfEXLNMLugC&oi=fnd&pg=PA9&dq=aquatic+exposure+tissue+drug+OR+pharmaceutical&ots=2HpLRHlBET&sig=O5G-7sERZ46oFKZ1xLInLvbi8HY.

Erickson RJ, McKim JM, Lien GJ, Hoffman AD, and Batterman SL. "Uptake and Elimination of Ionizable Organic Chemicals at Fish Gills: I. Model Formulation, Parameterization, and Behavior." *Environmental Toxicology and Chemistry* **2006**, *25*(6):1512-1521; doi:10.1897/05-358R.1.

Ericson JF. "An Evaluation of the OECD 308 Water/Sediment Systems for Investigating the Biodegradation of Pharmaceuticals."

Environmental Science & Technology **2007**, *41*(16):5803-5811.

Ericson JF, Laenge R, and Sullivan DE. "Comment on 'Pharmaceuticals, hormones, and other organic wastewater contaminants in U.S. streams, 1999-2000: a national reconnaissance'." *Environmental Science & Technology* **2002**, *36*(18):4005-4006.

Eriksson E, Andersen H, and Ledin A. "Substance Flow Analysis and Source Mapping of Chemical UV-filters." *Water, Air, & Soil Pollution* **2008**, *8*(5):473-484; doi:10.1007/s11267-008-9184-8.

Eriksson E, Andersen HR, and Ledin A. "Substance flow analysis of parabens in Denmark complemented with a survey of presence and frequency in various commodities." *Journal of Hazardous Materials* **2008**, *156*(1-3):240-259; doi:10.1016/j.jhazmat.2007.12.022.

Eriksson E, Andersen HR, Madsen TS, and Ledin A. "Greywater pollution variability and loadings." *Ecological Engineering* **2009**, *35*(5):661-669; doi:10.1016/j.ecoleng.2008.10.015.

Eriksson E, Auffarth K, Eilersen AM, Henze M, and Ledin A. "Household chemicals and personal care products as sources for xenobiotic organic compounds in grey wastewater." *Water SA* **2003**, *29*(2):135-146.

Eriksson E, Christensen N, Ejbye Schmidt J, and Ledin A. "Potential priority pollutants in sewage sludge." *Desalination* **2008**, *226*(1-3):371-388; doi:10.1016/j.desal.2007.03.019.

Eriksson Wiklund A-K and Dag Broman BS. "Toxicity evaluation by using intact sediments and sediment extracts." *Marine Pollution Bulletin* **2005**, *50*(6):660-667; doi:10.1016/j.marpolbul.2005.02.030.

Ermawati R, Morimura S, Tang Y, Liu K, and Kida K. "Degradation and behavior of natural steroid hormones in cow manure waste during biological treatments and ozone oxidation." *Journal of Bioscience and Bioengineering* **2007**, *103*(1):27-31; doi:10.1263/jbb.103.27.

Errouissi F, Alvinerie M, Galtier P, Kerboeuf D, and Lumaret JP. "The negative effects of the residues of ivermectin in cattle dung using a sustained-release bolus on *Aphodius constans* (Duft.) (Coleoptera: Aphodiidae)." *Veterinary Research* **2001**, *32*(5):421-427; doi:10.1051/vetres:2001134.

Ertl RP and Winston GW. "The microsomal mixed function oxidase system of amphibians and reptiles: components, activities and induction." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **1998**, *121*(1):85-105; doi:10.1016/S0742-8413(98)10032-4.

Ervik A, Samuelsen OB, Juell JE, and Sveler H. "Reduced environmental impact of antibacterial agents applied in farms using the LiftUp feed collector system or a hydroacoustic feed detector." *Diseases of Aquatic Organisms* **1994**, *19*:101-104.

Ervik A, Thorsen B, Eriksen V, Lunestad BT, and Samuelsen OB. "Impact of administering antibacterial agents on wild fish and blue mussels Mytilus edulis in the vicinity of fish farms." *Diseases of Aquatic Organisms* **1994**, *18*(1):45-51.

Erwin T. "'Silent echoes on the water: PPCPs in the environment,' from a Washington State University student project 'Life down the Drain: The WSU Student Perspective'." 2003, 7 pp; http://www.campusecology.wsu.edu/page_055.htm.

Escher B. "Foreword: JEM Spotlight: Recent advances in analysis of pharmaceuticals in the aquatic environment." *Journal of Environmental Monitoring* **2009**, *11*(5):921-922; doi:10.1039/b904065j.

Escher BI, Berger C, Bramaz N, Kwon J-H, Richter M, Tsinman O*, et al.* "Membrane-water partitioning, membrane permeability and baseline toxicity of the parasiticides ivermectin, albendazole, and morantel." *Environmental Toxicology and Chemistry* **2008**, *27*(4):909-918; doi:10.1897/07-427.

Escher BI, Bramaz N, Eggen RIL, and Richter M. "In Vitro Assessment of Modes of Toxic Action of Pharmaceuticals in Aquatic Life." *Environmental Science & Technology* **2005**, *39*(9):3090-3100.

Escher BI, Bramaz N, Lienert J, Neuwoehner J, and Straub JO. "Mixture Toxicity of the Antiviral Drug Tamiflu® (Oseltamivir Ethylester) and its Active Metabolite Oseltamivir Acid." *Aquatic Toxicology* **2009**, *In Press*; doi:10.1016/j.aquatox.2009.10.020.

Escher BI, Bramaz N, Maurer M, Richter M, Sutter D, von Känel C*, et al.* "Screening test battery for pharmaceuticals in urine and wastewater." *Environmental Toxicology and Chemistry* **2005**, *24*(3):750-758; doi:10.1897/04-091R.1.

Escher BI, Bramaz N, Richter M, and Lienert J. "Comparative Ecotoxicological Hazard Assessment of Beta-Blockers and Their Human Metabolites Using a Mode-of-Action-Based Test Battery and a QSAR Approach." *Environmental Science & Technology*

2006, *40*(23):7402-7408.

Escher BI, Eggen RIL, Schreiber U, Schreiber Z, Vye E, Wisner B*, et al.* "Baseline Toxicity (Narcosis) of Organic Chemicals Determined by In Vitro Membrane Potential Measurements in Energy-Transducing Membranes." *Environmental Science & Technology* **2002**, *36*(9):1971-1979; doi:10.1021/es015844c.

Escher BI and Hermens JLM. "Modes of Action in Ecotoxicology: Their Role in Body Burdens, Species Sensitivity, QSARs, and Mixture Effects." *Environmental Science & Technology* **2002**, *36*(20):4201-4217; doi:10.1021/es015848h.

Escher BI, Hunziker RW, and Schwarzenbach RP. "Interaction of Phenolic Uncouplers in Binary Mixtures: Concentration-Additive and Synergistic Effects." *Environmental Science & Technology* **2001**, *35*(19):3905-3914; doi:10.1021/es010069m.

Escher BI, Pronk W, Suter MJF, and Maurer M. "Monitoring the Removal Efficiency of Pharmaceuticals and Hormones in Different Treatment Processes of Source-Separated Urine with Bioassays." *Environmental Science & Technology* **2006**, *40*(16):5095-5101.

Escher BI and Schwarzenbach RP. "Mechanistic studies on baseline toxicity and uncoupling of organic compounds as a basis for modeling effective membrane concentrations in aquatic organisms." *Aquatic Sciences* **2002**, *64*(1):20-35; doi:10.1007/s00027-002-8052-2.

Escher BI, Schwarzenbach RP, and Westall JC. "Evaluation of Liposome-Water Partitioning of Organic Acids and Bases. 2. Comparison of Experimental Determination Methods." *Environmental Science & Technology* **2000**, *34*(18):3962-3968; doi:10.1021/es0010711.

Eschke H-D. "Synthetic musks in different water matrices." in *Synthetic Musk Fragrances in the Environment*, Rimkus GG, Ed., Springer-Verlag; Heidelberg, 2004, pp 17-28.

Eschke HD, Traud J, and Dibowski HJ. "Untersuchungen zum Vorkommen polycyclischer Moschus-Duftstoffe in verschiedenen Umweltkompartimenten – Nachweis und Analytik mit GC/MS in Oberflässern und Fischen (1. Mitteilung)." *Umweltwissenschaften und Schadstoff-Forschung* **1994**, *6*(Ökotox.):183-189.

Eschke HD, Traud J, and Dibowski HJ. "Untersuchungen zum Vorkommen polycyclischer Moschus-Duftstoffe in verschiedenen Umweltkompartimenten – Befunde in Oberflächen-, Abwässern und Fischen sowie in Waschmitteln und Kosmetika (2. Mitteilung)." *Umweltwissenschaften und Schadstoff-Forschung* **1995**, *7*(Ökotox.):131-138.

Eschke HD, Traud J, and Dibowski HJ. "Nachweis und Quantifizierung von polycyclischen Moschus-Duftstoffen mittels Ion-Trap GC/MS/MS in Humanfett und Muttermilch." *Deutsche Lebensmittel-Rundschau* **1995**, *12*(Rundschau):375-379.

Es'haghi Z. "Determination of widely used non-steroidal anti-inflammatory drugs in water samples by in situ derivatization, continuous hollow fiber liquid-phase microextraction and gas chromatography-flame ionization detector." *Analytica Chimica Acta* **2009**, *641*(1-2):83-88; doi:10.1016/j.aca.2009.03.043.

Esiobu N, Armenta L, and Ike J. "Antibiotic resistance in soil and water environments." *International Journal of Environmental Health Research* **2002**, *12*(2):133-144.

Esperanza M, Suidan MT, Marfil-Vega R, Gonzalez C, Sorial GA, McCauley P*, et al.* "Fate of sex hormones in two pilot-scale municipal wastewater treatment plants: Conventional treatment." *Chemosphere* **2007**, *66*(8):1535-1544; doi:10.1016/j.chemosphere.2006.08.020.

Esperanza M, Suidan MT, Nishimura F, Wang Z-M, and G.A. S. "Determination of sex hormones and nonylphenol ethoxylates in the aqueous matrixes of two pilot-scale municipal wastewater treatment plants." *Environmental Science & Technology* **2004**, *38*(11):3028-3035; doi:10.1021/es0350886.

Esplugas S, Bila DM, Krause LG, and Dezotti M. "Ozonation and advanced oxidation technologies to remove endocrine disrupting chemicals (EDCs) and pharmaceuticals and personal care products (PPCPs) in water effluents." *Journal of Hazardous Materials* **2007**, *149*(3):631-642; doi:10.1016/j.jhazmat.2007.07.073.

Esponda S, Padrón M, Ferrera Z, and Rodríguez J. "Solid-phase microextraction with micellar desorption and HPLC-fluorescence detection for the analysis of fluoroquinolones residues in water samples." *Analytical and Bioanalytical Chemistry* **2009**, *394*(4):927-935; doi:10.1007/s00216-009-2629-8.

Esposito K, Phillips P, Stinson B, Bradley T, and Whalen G. "Microconstituents and Endocrine Disrupting Compounds in a Pilot Water Reclamation System for Groundwater Replenishment." in Proceedings of the Water Environment Federation, Compounds of

Emerging Concern, Water Environment Federation WEF, 2007, 13 39-51 pp; http://www.ingentaconnect.com/content/wef/wefproc/2007/00002007/00000006/art00004 http://dx.doi.org/10.2175/193864707786542463.

Esposito KM, Phillips PJ, Stinson BM, Bradley T, Whalen G, and Mysore C. "Multiple barrier treatment for indirect potable reuse: Considerations for trace contaminants of emerging concern." *Proceedings of the Water Environment Federation* **2007**, *51-60*:4410-4425; doi:10.2175/193864707787974229.

Estévez MC, Font H, Nichkova M, Salvador JP, Varela B, Sánchez-Baeza F*, et al.* "Immunochemical Determination of Industrial Emerging Pollutants." *The Handbook of Environmental Chemistry* **2005**, *5, Part O*:119-180; doi:10.1007/b98609.

Estevez M-C, Font H, Nichkova M, Salvador P, Varela B, Sanchez-Baeza F*, et al.* "Immunochemical Determination of Pharmaceuticals and Personal Care Products as Emerging Pollutants." *The Handbook of Environmental Chemistry* **2005**, *5, Part O*:181-244; doi:10.1007/b98616.

Estey C, Chen X, and Moon TW. "3-Hydroxy-3-methylglutaryl coenzyme A reductase in rainbow trout: Effects of fasting and statin drugs on activities and mRNA transcripts." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2008**, *147*(3):386-398; doi:10.1016/j.cbpc.2008.01.008.

Estey CM. "The characterization of 3-hydroxy-3-methylglutaryl coenzyme A reductase (HMGCoAR) in rainbow trout (Oncorhynchus mykiss) and the effect of statin drugs on HMGCoAR." Masters Dissertation, University of Ottawa, Ottawa, Ontario, Canada, 2007. 96 pp.

Estrada LAP. "Degradación fotoquímica de Contaminantes emergentes mediante Procesos solares. Evaluación analítica [Photochemical degradation of emergent Polluting agents by means of solar Processes. Analytical evaluation]." Doctoral Dissertation, Universidad de Almería, Almeria, Spain, 2008. 270 pp; http://www.psa.es/webesp/areas/quimica/docs/Tesis_Leonidas%20Perez.pdf.

Ette EI. "Conscience, the Law, and Donation of Expired Drugs." *Annals of Pharmacotherapy* **2004**, *38*(7):1310-1313; doi:10.1345/aph.1D375.

Eufemia NA and Epel D. "Induction of the multixenobiotic defense mechanism (MXR), P-glycoprotein, in the mussel Mytilus californianus as a general cellular response to environmental stresses." *Aquatic Toxicology* **2000**, *49*(1-2):89-100; doi:10.1016/S0166-445X(99)00068-5.

European Commission. "Scientific Committee on Consumer Products. Opinion on Triclocarban for Other Uses Than as a Preservative COLIPA n° P29." SCCP/0851/04, 1 June, 2005, http://ec.europa.eu/health/ph_risk/committees/04_sccp/docs/sccp_o_016.pdf.

European Commission Directorate-General, Health and Consumer Protection, and Scientific Committee on Toxicity Ecotoxicity and the Environment (CSTEE). "Opinion on Draft CPMP Discussion Paper on Environmental risk assessment of medicinal products for human use [Non-genetically modified organism (Non-GMO) Containing]." Brussels, Belgium, 2001, 22 pp.

European Commission Joint Research Centre. "Technical Guidance Document on risk assessment." Institute Health Consumer Protection, 2003, http://ecb.jrc.it/documents/TECHNICAL_GUIDANCE_DOCUMENT/EDITION_2/tgdpart1_2ed.pdf.

European Parliament. "Compromise amendments 1–3: proposal for a Directive of the European Parliament and of the Council on environmental quality standards in the field of water policy and amending Directive 2000/60/EC." (PE 378.719v01-00), 26 March 2007. 6 pp; http://www.europarl.europa.eu/meetdocs/2004_2009/documents/dv/659/659305/659305en.pdf.

Evans JD and Evans EW. "Review of eight restricted-access programs and potential implications for pharmacy." *American Journal of Health-System Pharmacy* **2007**, *64*(12):1302-1310; doi:10.2146/ajhp060149.

Evans WE and Relling MV. "Pharmacogenomics: Translating Functional Genomics into Rational Therapeutics." *Science* **1999**, *286*(5439):487-491; doi:10.1126/science.286.5439.487.

Everts S. "Bacteria Interfere With Painkillers: Gut microbes manipulate acetaminophen metabolism." *Chemical & Engineering News* **2009**, *87*(33):8.

Everts S. "Chemicals leach from packaging." *Chemical & Engineering News* **2009**, *87*(35):11-15.

EWG "A National Assessment of Tap Water Quality. More than 140 contaminants with no enforceable safety limits found in the nation's drinking water: Utilities need more money to monitor for contaminants and protect source waters." 2005; http://www.ewg.org/tapwater/findings.php.

EWG "Nitro- and polycylic- musks." Web Page maintained by Environmental Working Group, The Human Toxome Project - Mapping the Pollution in People 2008, http://www.ewg.org/sites/humantoxome/chemicals/chemical_classes.php?class=Nitro-+and+polycylic-+musks.

EWG "Parabens." Web Page maintained by Environmental Working Group, The Human Toxome Project - Mapping the Pollution in People 2008, http://www.ewg.org/sites/humantoxome/chemicals/chemical_classes.php?class=Parabens.

EWG "Skin deep: Safety guide to cosmetics and personal care products." Environmental Working Group 2008; http://www.cosmeticsdatabase.com/index.php?nothanks=1.

EWG "2009 Sunscreen Guide." Web Page maintained by Environmental Working Group 2009, http://www.ewg.org/cosmetics/report/sunscreen09.

Exall K. "A review of water reuse and recycling, with reference to Canadian practice and potential: 2. Applications." *Water Quality Research Journal of Canada* **2004**, *39*(1):13-28.

Exall K, Marsalek J, and Schaefer K. "Water resuse in Canada: Opportunities and challenges." in *Integrated Urban Water Resources Management*, 2006, pp 253-262; doi:10.1007/1-4020-4685-5_26; http://dx.doi.org/10.1007/1-4020-4685-5_26.

Expert Panel. "Singapore Water Reclamation Study, Expert Panel Review and Findings." June, 2002, 25 pp; http://www.pub.gov.sg/NEWater/Pages/default.aspx http://www.pub.gov.sg/newater/AboutNEWater/Pages/ReviewReport.aspx.

FAAIR. "The Need to Improve Antimicrobial Use in Agriculture Ecological and Human Health Consequences." *Clinical Infectious Diseases* **2002**, *34*(Supplement 3):i-S144.

Faergemann J and Laufen H. "Levels of fluconazole in serum, stratum corneum, epidermis-dermis (without stratum corneum) and eccrine sweat." *Clinical and Experimental Dermatology* **1993**, *18*(2):102-106; doi:10.1111/j.1365-2230.1993.tb00987.x.

Fair PA, Lee H-B, Adams J, Darling C, Pacepavicius G, Alaee M*, et al.* "Occurrence of triclosan in plasma of wild Atlantic bottlenose dolphins (Tursiops truncatus) and in their environment." *Environmental Pollution* **2009**, *157*(8-9):2248-2254; doi:10.1016/j.envpol.2009.04.002.

Falcao DP, Lustri WR, and Bauab TM. "Incidence of non-01 Vibrio cholerae and Aeromonas spp. in fresh water in Araraquara, Brazil." *Current Microbiology* **1998**, *37*(1):28-31; doi:10.1007/s002849900332.

Falconer IR. "Are endocrine disrupting compounds a health risk in drinking water?" *International Journal of Environmental Research and Public Health* **2006**, *3*(2):180-184.

Falconer IR, Chapman HF, Moore MR, and Ranmuthugala G. "Endocrine-disrupting compounds: A review of their challenge to sustainable and safe water supply and water reuse." *Environmental Toxicology* **2006**, *21*(2):181-191.

Falkow S and Kennedy D. "Antibiotics, Animals, and People-Again!" *Science* **2001**, *291*(5503):397; doi:10.1126/science.1058907.

Fall C, Hinojosa-Pena A, and Carreno-de-Leon MC. "Design of a monitoring network and assessment of the pollution on the Lerma river and its tributaries by wastewaters disposal." *Science of the Total Environment* **2007**, *373*(1):208-219; doi:10.1016/j.scitotenv.2006.10.053.

Falter R and Wilken R-D. "Determination of carboplatinum and cisplatinum by interfacing HPLC with ICP-MS using ultrasonic nebulisation." *Science of the Total Environment* **1999**, *225*(1-2):167-176; doi:10.1016/S0048-9697(98)00342-8.

Famiglini G, Palma P, Siviero A, Rezai MA, and Cappiello A. "Determination of endocrine disrupting compounds in marine water by nanoliquid chromatography/direct-electron ionization mass spectrometry." *Analytical Chemistry* **2005**, *77*(23):7654-7661; doi:10.1021/ac050842m.

Fan Y, Xiao G, Li S, and Weidong Q. "A rapid CE-potential gradient detection method for determination of quinolones." *Electrophoresis* **2007**, *28*(22):4101-4107; doi:10.1002/elps.200700182.

Fan Y, Zhang M, Da SL, and Feng YQ. "Determination of endocrine disruptors in environmental waters using poly(acrylamide-vinylpyridine) monolithic capillary for in-tube solid-phase microextraction coupled to high-performance liquid chromatography with fluorescence detection." *Analyst* **2005**, *130*(7):1065-1069; doi:10.1039/b502311d.

Fan ZS, Casey FXM, Hakk H, and Larsen GL. "Discerning and modeling the fate and transport of testosterone in undisturbed soil." *Journal of Environmental Quality* **2007**, *36*(3):864-873; doi:10.2134/jeq2006.0451.

Fanelli R and Frost N. "Legal and ethical issues." in *Assessing illicit drugs in wastewater*, EMCDDA, Ed., European Monitoring Centre for Drugs and Drug Addiction; Lisbon, 2008, pp; http://www.emcdda.europa.eu/publications/insights/wastewater.

Fang SF, Pendleton P, and Badalyan A. "Effects of surface functional groups of activated carbon on adsorption of triclosan from aqueous solution." *International Journal of Environmental Technology and Management* **2008**, *10*(1):36-45; doi:10.1504/IJETM.2009.021576.

Fang WH, Hu LL, Yang XL, Hu K, Liang SC, and Zhou S. "Effect of temperature on pharmacokinetics of enrofloxacin in mud crab, Scylla serrata (Forsskal), following oral administration." *Journal of Fish Diseases* **2008**, *31*(3):171-176; doi:10.1111/j.1365-2761.2007.00884.x.

Fang ZQ. "Organochlorines in sediments and mussels collected from coastal sites along the Pearl River Delta, South China." *Journal of Environmental Sciences (China)* **2004**, *16*(2):321-327.

FAO. "The state of the world fisheries and aquaculture (SOFIA): part 2. Selected issues facing fishers and aquaculture (antibiotic residues in aquaculture products)." Food and Agriculture Organization of the United Nations, Rome, 2002, 74-83 pp; http://www.fao.org/docrep/005/Y7300E/y7300e00.htm, http://www.fao.org/docrep/005/Y7300E/y7300e06.htm#P341_75680, ftp://ftp.fao.org/docrep/fao/005/y7300e/y7300e02.pdf.

FAO, OIE, and WHO. "Antimicrobial Use in Aquaculture and Antimicrobial Resistance." WHO Document Production Services, Geneva, Switzerland, Seoul, Republic of Korea, 13-16 June, 2006, 107 pp.

FAO, WHO, and OIE. "Antimicrobial Resistance." Rome, Italy, 26-30 November, 2007, 60 pp; http://www.who.int/foodborne_disease/resistance/en/.

Fardel O, Payen L, Courtois A, Vernhet L, and Lecureur V. "Regulation of biliary drug efflux pump expression by hormones and xenobiotics." *Toxicology* **2001**, *167*(1):37-46; doi:10.1016/S0300-483X(01)00456-5.

Faria C, Vaz-Moreira I, Serapicos E, Nunes OC, and Manaia CM. "Antibiotic resistance in coagulase negative staphylococci isolated from wastewater and drinking water." *Science of the Total Environment* **2009**, *407*(12):3876-3882; doi:10.1016/j.scitotenv.2009.02.034.

Farkas MH, Berry JO, and Aga DS. "Chlortetracycline Detoxification in Maize via Induction of Glutathione S-Transferases after Antibiotic Exposure." *Environmental Science & Technology* **2007**, *41*(4):1450-1456.

Farkas MH, Berry JO, and Aga DS. "Antibiotic Transformation in Plants via Glutathione Conjugation." in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press; Boca Raton, FL, 2007, Chapter 9, pp 199-216; http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Treatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#PPR8,M1.

Faroongsarng D, Chandumpai A, Chiayvareesajja S, and Theapparat Y. "Bioavailability and absorption analysis of oxytetracycline orally administered to the standardized moulting farmed Pacific white shrimps (Penaeus vannamei)." *Aquaculture* **2007**, *269*(1-4):89-97; doi:10.1016/j.aquaculture.2007.04.019.

Farré M, Asperger D, Kantiani L, González S, Petrovic M, and Barceló D. "Assessment of the acute toxicity of triclosan and methyl triclosan in wastewater based on the bioluminescence inhibition of Vibrio fischeri." *Analytical and Bioanalytical Chemistry* **2008**, *390*(8):1999-2007; doi:10.1007/s00216-007-1779-9.

Farre M, Brix R, Kuster M, Rubio F, Goda Y, de Alda MJL*, et al.* "Evaluation of commercial immunoassays for the detection of estrogens in water by comparison with high-performance liquid chromatography tandem mass spectrometry HPLC-MS/MS (QqQ)." *Analytical and Bioanalytical Chemistry* **2006**, *385*(6):1001-1011; doi:10.1007/s00216-006-0562-7.

Farre M, Petrovic M, and Barcelo D. "Recently developed GC/MS and LC/MS methods for determining NSAIDs in water samples." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1203-1214; doi:10.1007/s00216-006-0936-x.

Farré M, Petrovic M, Gros M, Kosjek T, Martinez E, Heath E*, et al.* "First interlaboratory exercise on non-steroidal anti-inflammatory drugs analysis in environmental samples." *Talanta* **2008**, *76*(3):580-590; doi:10.1016/j.talanta.2008.03.055.

Farré Ml, Ferrer I, Ginebreda A, Figueras M, Olivella L, Tirapu L*, et al.* "Determination of drugs in surface water and wastewater samples by liquid chromatography-mass spectrometry: methods and preliminary results including toxicity studies with Vibrio fischeri." *Journal of Chromatography A* **2001**, *938*(1-2):187-197.

Farré Ml, Pérez S, Kantiani L, and Barceló D. "Fate and toxicity of emerging pollutants, their metabolites and transformation products in the aquatic environment." *TRAC Trends in Analytical Chemistry* **2008**, *27*(11):991-1007; doi:10.1016/j.trac.2008.09.010.

Farrell I, "A fishy method of analysis." *Chemical Science*, 2004, 9 7: C34-C34 pp; http://www.rsc.org/Publishing/ChemScience/Volume/2004/5/Afishymethodofanalysis.asp.

Farrell J, Wang JK, and LeBlanc R. "Electrochemical destruction of triclosan." in *Pesticide Decontamination and Detoxification*, Gan JJ, Zhu PC, Aust SD and Lemley AT, Eds., American Chemical Society; Phoenix, Arizona, 2004, 8, pp 99-112.

Farrell MB. "Water's odyssey from sewer to cup." The Christian Science Monitor, 2008, The Christian Science Monitor, http://features.csmonitor.com/environment/2008/07/30/water%E2%80%99s-odyssey-from-sewer-to-cup/.

Fasola G, Aita M, Marini L, Follador A, Tosolini M, Mattioni L*, et al.* "Drug waste minimisation and cost-containment in Medical Oncology: two-year results of a feasibility study." *BMC Health Services Research* **2008**, *8*(1):70; doi:10.1186/1472-6963-8-70.

fass.se. "Environmental classification of pharmaceuticals in www.fass.se – guidance for pharmaceutical companies." January, 2007, 17 pp; http://www.dnsy.se/_upload/lfm/2007/2007%20Environmental%20classification%20guidance%20LIF.pdf.

Fatta D, Achilleos A, Nikolaou A, and Meric S. "Analytical methods for tracing pharmaceutical residues in water and wastewater." *Trends in Analytical Chemistry* **2007**, *26*(6):515-533; doi:10.1016/j.trac.2007.02.001.

Faure P and Rizzo Padoin N. "[Hospital and environment: waste disposal]." *Annals Pharmaceutiques Françaises* **2003**, *61*(6):373-377.

Faust M, Altenburger R, Backhaus T, Blanck H, Boedeker W, Gramatica P*, et al.* "Joint algal toxicity of 16 dissimilarly acting chemicals is predictable by the concept of independent action." *Aquatic Toxicology* **2003**, *63*(1):43-63; doi:10.1016/S0166-445X(02)00133-9.

Fawell JK, Sheahan D, James HA, Hurst M, and Scott S. "Oestrogens and Oestrogenic Activity in Raw and Treated Water in Severn Trent Water." *Water Research* **2001**, *35*(5):1240-1244; doi:10.1016/S0043-1354(00)00367-5.

Feder ME and Hofmann GE. "Heat-shock proteins, molecular chaperones, and the stress response: Evolutionary and ecological physiology." *Annual Review of Physiology* **1999**, *61*:243-282; doi:10.1146/annurev.physiol.61.1.243.

Federal Interagency Work Group on PiE. "Pharmaceuticals in the Environment: An Interagency Research Strategy." Federal Interagency Work Group on Pharmaceuticals in the Environment, Committee on the Environment and Natural Resources of the National Science and Technology Council, 6 February, 2009, 56 pp.

Federation and federal state committee of Germany for the Safety of chemical Products (BLAC). "Arzneimittel in der umwelt, auswertung der untersuchungsergebnisse." BLAC-AG, Hmburg, Germany, 2003.

Federle TW, Kaiser SK, and Nuch BA. "Fate and effects of triclosan in activated sludge." *Environmental Toxicology and Chemistry* **2002**, *21*(7):1330-1337; doi:10.1897/1551-5028(2002)021<1330:FAEOTI>2.0.CO;2.

Feitosa-Felizzola J and Chiron S. "Occurrence and distribution of selected antibiotics in a small Mediterranean stream (Arc River, Southern France)." *Journal of Hydrology* **2009**, *364*(1-2):50-57; doi:10.1016/j.jhydrol.2008.10.006.

Feitosa-Felizzola J, Hanna K, and Chiron S. "Adsorption and transformation of selected human-used macrolide antibacterial agents with iron(III) and manganese(IV) oxides." *Environmental Pollution* **2009**, *157*(4):1317-1322; doi:10.1016/j.envpol.2008.11.048.

Feitosa-Felizzola J, Temime B, and Chiron S. "Evaluating on-line solid-phase extraction coupled to liquid chromatography-ion trap mass spectrometry for reliable quantification and confirmation of several classes of antibiotics in urban wastewaters." *Journal of Chromatography A* **2007**, *1164*(1-2):95-104; doi:10.1016/j.chroma.2007.06.071.

Feldman J. "Triclosan risk assessment." Docket Identification No. EPA-HQ-OPP-2007-0513, USEPA, 2008. 14 pp.

Feldmann DF, Zuehlke S, and Heberer T. "Occurrence, fate and assessment of polar metamizole (dipyrone) residues in hospital and

municipal wastewater." *Chemosphere* **2008**, *71*(9):1754-1764.

Felis E, Alder AC, Surmacz-Górska J, and Miksch K. "Advanced oxidation of the polycyclic musk fragrances with using UV and UV/H_2O_2 processes." *Archives of Environmental Protection* **2008**, *34*(1):13-23.

Fenet H, Gomez E, Leclerc M, and Casellas C. "Fate of drugs in the environment." *Environment, Risques & Sante* **2006**, *5*(4):243-247.

Feng X, Ding S, Tu J, Wu F, and Deng N. "Degradation of estrone in aqueous solution by photo-Fenton system." *Science of the Total Environment* **2005**, *345*(1-3):229-237; doi:10.1016/j.scitotenv.2004.11.008.

Feng XH, Tu JF, Ding SM, Wu F, and Deng NS. "Photodegradation of 17β-estradiol in water by UV-vis/Fe(III)/H_2O_2 system." *Journal of Hazardous Materials* **2005**, *127*(1-3):129-133; doi:10.1016/j.jhazmat.2005.06.039.

Feng Y, Zhang Z, Gao P, Su H, Yu Y, and Ren N. "Adsorption behavior of EE_2 (17α-Ethinylestradiol) onto the inactivated sewage sludge: kinetics, thermodynamics and influence factors." *Journal of Hazardous Materials In Press*; doi:10.1016/j.jhazmat.2009.10.105.

Fenlon KA, Johnson AC, Tyler CR, and Hill EM. "Gas-liquid chromatography- tandem mass spectrometry methodology for the quantitation of estrogenic contaminants in bile of fish exposed to wastewater treatment works effluents and from wild populations." *Journal of Chromatography A* **2009**, *In Press*; doi:10.1016/j.chroma.2009.10.063.

Fenske M, Maack G, Schafers C, and Segner H. "An environmentally relevant concentration of estrogen induces arrest of male gonad development in zebrafish, Danio rerio." *Environmental Toxicology and Chemistry* **2005**, *24*(5):1088-1098; doi:10.1897/04-096R1.1.

Fenske M, van Aerle R, Brack S, Tyler CR, and Segner H. "Development and validation of a homologous zebrafish (Danio rerio Hamilton-Buchanan) vitellogenin enzyme-linked immunosorbent assay (ELISA) and its application for studies on estrogenic chemicals." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2001**, *129*(3):217-232; doi:10.1016/S1532-0456(01)00194-6.

Fent K. "Effects of pharmaceuticals on aquatic organisms." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 12, pp 175-203; doi:10.1007/978-3-540-74664-5_12; http://www.springerlink.com/content/xkk11v74p747u15m/?p=c4b8af41188a4509affe75a647e5ee26&pi=11.

Fent K, Caminada D, Christen V, Zaja R, and Smital T. "Human pharmaceuticals affect the multidrug resistance mechanism in fish cells." *Comparative Biochemistry and Physiology, Part A: Molecular & Integrative Physiology* **2008**, *151*(1, Supplement 1):S21-S22; doi:10.1016/j.cbpa.2008.05.083.

Fent K, Escher C, and Caminada D. "Estrogenic activity of pharmaceuticals and pharmaceutical mixtures in a yeast reporter gene system." *Reproductive Toxicology* **2006**, *22*(2):175-185; doi:10.1016/j.reprotox.2006.04.010.

Fent K, Kunz P, and Gomez E. "UV filters in the aquatic environment induce hormonal effects and affect fertility and reproduction in fish." *Chimia* **2008**, *62*(5):368-375; doi:10.2533/chimia.2008.368.

Fent K, Kunz P, Wolf M, Schmutz H, Gygax D, and Schanne C. "Chemical analysis and ecotoxicological effects of UV absorbing organic chemicals in aquatic environments." *Chimia* **2004**, *58*(5):325-327; doi:10.2533/000942904777677795.

Fent K and Kunz PY. "UV-filters are widespread in the aquatic environment and some of them affect fertility and reproduction in fish." presented at 4th Dresdner Symposium, Endokrin aktive Stoffe in Abwasser, Klärschlamm und Abfällen, 25 March, at Dresden, Germany, 2009; http://rcswww.urz.tu-dresden.de/~gehring/deutsch/dt/tagungen/4/zf/ENDO4_fent_ENG.pdf.

Fent K, Weston AA, and Caminada D. "Ecotoxicology of human pharmaceuticals." *Aquatic Toxicology* **2006**, *76*(2):122-159; doi:10.1016/j.aquatox.2005.09.009.

Fent K, Weston AA, and Caminada D. "Erratum to "Ecotoxicology of human pharmaceuticals" [Aquatic Toxicology 76 (2006) 122-159]." *Aquatic Toxicology* **2006**, *78*(2):207-207; doi:10.1016/j.aquatox.2006.02.006.

Fenz R, Blaschke AP, Clara M, Kroiss H, Mascher D, and Zessner M. "Monitoring of carbamazepine concentrations in wastewater and groundwater to quantify sewer leakage." *Water Science and Technology* **2005**, *52*(5):205-213.

Fenz R, Blaschke AP, Clara M, Kroiss H, Mascher D, and Zessner M. "Quantification of sewer exfiltration using the anti-epileptic drug carbamazepine as marker species for wastewater." *Water Science and Technology* **2005**, *52*(9):209-217.

Ferber D. "New hunt for the roots of resistance." *Science* **1998**, *280*(5360):27; doi:10.1126/science.280.5360.27.

Ferber D. "Superbugs on the Hoof?" *Science* **2000**, *288*(5467):792-794; doi:10.1126/science.288.5467.792.

Ferdig M, Kaleta A, and Buchberger W. "Improved liquid chromatographic determination of nine currently used (fluoro)quinolones with fluorescence and mass spectrometric detection for environmental samples." *Journal of Separation Science* **2005**, *28*(13):1448-1456; doi:10.1002/jssc.200400065.

Ferguson PL, Iden CR, McElroy AE, and Brownawell BJ. "Determination of Steroid Estrogens in Wastewater by Immunoaffinity Extraction Coupled with HPLC-Electrospray-MS." *Analytical Chemistry* **2001**, *73*(16):3890-3895; doi:10.1021/ac010327y.

Ferianc P, Harichova J, Proksova M, Kreposova K, Chovanova K, and Toth D. "The surface river water and clinical Escherichia coli isolates: characteristics, diversity and epidemiological significance." *Biologia* **2002**, *57*(3):321-334.

Ferk F, Misík M, Grummt T, Majer B, Fuerhacker M, Buchmann C*, et al.* "Genotoxic effects of wastewater from an oncological ward." *Mutation Research/Genetic Toxicology and Environmental Mutagenesis* **2009**, *672*(2):69-75; doi:10.1016/j.mrgentox.2008.08.022.

Fernandes D, Bebianno MJ, and Porte C. "Mitochondrial metabolism of 17α-hydroxyprogesterone in male sea bass (Dicentrarchus labrax): a potential target for endocrine disruptors." *Aquatic Toxicology* **2007**, *85*(4):258-266; doi:10.1016/j.aquatox.2007.09.010.

Fernández C, Alonso C, Babin M, Pro J, Carbonell G, and Tarazona JV. "Ecotoxicological assessment of doxycycline in aged pig manure using multispecies soil systems." *Science of the Total Environment* **2004**, *323*(1-3):63-69; doi:10.1016/j.scitotenv.2003.10.015.

Fernández C, Carballo M, and Tarazona JV. "A new method to determine musk xylene in water sewages fish and related products." *Chemosphere* **1996**, *32*(9):1805-1811; doi:10.1016/0045-6535(96)00116-6.

Fernández C, González-Doncel M, Pro J, Carbonell G, and Tarazona JV. "Occurrence of pharmaceutically active compounds in surface waters of the henares-jarama-tajo river system (madrid, spain) and a potential risk characterization." *Science of the Total Environment* **2010**, *408*(3):543-551; doi:10.1016/j.scitotenv.2009.10.009.

Fernández I, Mosquera-Corral A, Campos JL, and Méndez R. "Operation of an Anammox SBR in the presence of two broad-spectrum antibiotics." *Process Biochemistry* **2009**, *44*(4):494-498; doi:10.1016/j.procbio.2009.01.001.

Fernandez M, Noguerol T-N, Lacorte S, Buchanan I, and Piña B. "Toxicity identification fractionation of environmental estrogens in waste water and sludge using gas and liquid chromatography coupled to mass spectrometry and recombinant yeast assay." *Analytical and Bioanalytical Chemistry* **2009**, *393*(3):957-968; doi:10.1007/s00216-008-2516-8.

Fernandez MF, Aguilar-Garduño C, Molina-Molina JM, Arrebola JP, and Olea N. "The total effective xenoestrogen burden, a biomarker of exposure to xenoestrogen mixtures, is predicted by the (anti)estrogenicity of its components." *Reproductive Toxicology* **2008**, *26*(1):8-12; doi:10.1016/j.reprotox.2008.06.002.

Fernandez MP, Buchanan ID, and Ikonomou MG. "Seasonal variability of the reduction in estrogenic activity at a municipal WWTP." *Water Research* **2008**, *42*(12):3075-3081; doi:10.1016/j.watres.2008.02.022.

Fernandez MP, Campbell PM, Ikonomou MG, and Devlin RH. "Assessment of environmental estrogens and the intersex/sex reversal capacity for chinook salmon (Oncorhynchus tshawytscha) in primary and final municipal wastewater effluents." *Environment International* **2007**, *33*(3):391-396; doi:10.1016/j.envint.2006.12.002.

Fernandez MP, Ikonomou MG, and Buchanan I. "An assessment of estrogenic organic contaminants in Canadian wastewaters." *Science of the Total Environment* **2007**, *373*(1):250-269; doi:10.1016/j.scitotenv.2006.11.018.

Fernández-Álvarez P, Le Noir M, and Guieysse B. "Removal and destruction of endocrine disrupting contaminants by adsorption with molecularly imprinted polymers followed by simultaneous extraction and phototreatment." *Journal of Hazardous Materials* **2009**, *163*(2-3):1107-1112; doi:10.1016/j.jhazmat.2008.07.085.

Fernando De Andrés, Gregorio Castañeda, and Ángel Ríos. "Use of toxicity assays for enantiomeric discrimination of pharmaceutical substances." *Chirality* **2009**, *21*(8):751-759; doi:10.1002/chir.20675.

Fernando PN, Egwu IN, and Hussain MS. "Ion chromatographic determination of trace hydroxylamine in waste streams generated by a pharmaceutical reaction process." *Journal of Chromatography A* **2002**, *956*(1-2):261-270; doi:10.1016/S0021-9673(02)00145-0.

Ferrari B, Mons R, Villat B, Fraysse B, Paxéus N, Lo Guidice R*, et al.* "Environmental risk assessment of six human pharmaceuticals: Are the current environmental risk assessment procedures sufficient for the protection of the aquatic environment?" *Environmental Toxicology and Chemistry* **2004**, *23*(5):1344-1354; doi:10.1897/03-246.

Ferrari B, Paxeus N, Giudice RL, Pollio A, and Garric J. "Ecotoxicological impact of pharmaceuticals found in treated wastewaters: study of carbamazepine, clofibric acid, and diclofenac." *Ecotoxicology and Environmental Safety* **2003**, *55*(3):359-370; doi:10.1016/S0147-6513(02)00082-9.

Ferrari B, Paxéus N, Giudice RL, Pollio A, and Garric J. "Erratum to "Ecotoxicological impact of pharmaceuticals found in treated wastewaters: study of carbamazepine, clofibric acid, and diclofenac": [Ecotoxicol. Environ. Saf. 55 (2003) 359-370]." *Ecotoxicology and Environmental Safety* **2003**, *56*(3):450-450; doi:10.1016/S0147-6513(03)00111-8.

Ferreira ALG, Loureiro S, and Soares AMVM. "Toxicity prediction of binary combinations of cadmium, carbendazim and low dissolved oxygen on Daphnia magna." *Aquatic Toxicology* **2008**, *89*(1):28-39; doi:10.1016/j.aquatox.2008.05.012.

Ferreira AP. "Caffeine as an environmental indicator for assessing urban aquatic ecosystems." *Cadernos de Saude Publica* **2005**, *21*(6):1884-1892; doi:10.1590/S0102-311X2005000600038.

Ferreira AP, De Lourdes C, and Da Cunha N. "Anthropic pollution in aquatic environment: Development of a caffeine indicator." *International Journal of Environmental Health Research* **2005**, *15*(4):303-311; doi:10.1080/09603120500155898.

Ferreira CSG, Nunes BA, Henriques-Almeida JMdM, and Guilhermino L. "Acute toxicity of oxytetracycline and florfenicol to the microalgae Tetraselmis chuii and to the crustacean Artemia parthenogenetica." *Ecotoxicology and Environmental Safety* **2007**, *67*(3):452-458; doi:10.1016/j.ecoenv.2006.10.006.

Ferreira da Silva MF, Vaz-Moreira I, Gonzalez-Pajuelo M, Nunes OC, and Manaia CM. "Antimicrobial resistance patterns in Enterobacteriaceae isolated from an urban wastewater treatment plant." *FEMS Microbiology Ecology* **2007**, *60*(1):166-176; doi:10.1111/j.1574-6941.2006.00268.x.

Ferrer I, Heine CE, and Thurman EM. "Combination of LC/TOF-MS and LC/ion trap MS/MS for the identification of diphenhydramine in sediment samples." *Analytical Chemistry* **2004**, *76*(5):1437-1444; doi:10.1021/ac034794m.

Ferrer I, Mezcua M, Gomez MJ, Thurman EM, Aguera A, Hernando MD*, et al.* "Liquid chromatography/time-of-flight mass spectrometric analyses for the elucidation of the photodegradation products of triclosan in wastewater samples." *Rapid Communications in Mass Spectrometry* **2004**, *18*(4):443-450; doi:10.1002/rcm.1351.

Ferrer I and Thurman EM. "Liquid chromatography/time-of-flight/mass spectrometry (LC/TOF/MS) for the analysis of emerging contaminants." *Trends in Analytical Chemistry* **2003**, *22*(10):750-756; doi:10.1016/S0165-9936(03)01013-6.

Ferrer I and Thurman EM. "Analysis of Emerging Contaminants." in *ACS Symposium #850: Liquid Chromatography/Mass Spectrometry, MS/MS and Time of Flight MS: Analysis of Emerging Contaminants*, Almagor UM, Ed., American Chemical Society; 2003, Chapter 1, pp 2-13; http://www.powells.com/biblio?isbn=9780841238251.

Ferrer I and Thurman EM. "Identification of Homologue Unknowns in Wastewater by Ion Trap MSn: The Diagnostic-Ion Approach." in *ACS Symposium #850: Liquid Chromatography/Mass Spectrometry, MS/MS and Time of Flight MS: Analysis of Emerging Contaminants*, Almagor UM, Ed., American Chemical Society; 2003, Chapter 22, pp 376-393; http://www.powells.com/biblio?isbn=9780841238251.

Ferrer I and Thurman EM, Eds., "Liquid Chromatography Time-of-Flight Mass Spectrometry: Principles, tools, and applications for accurate mass analysis." John Wiley & Sons, Inc., Hoboken, NJ, 2009, 267 pp; doi:10.1002/9780470429969; http://www3.interscience.wiley.com/cgi-bin/bookhome/120756170?CRETRY=1&SRETRY=0.

Ferrer I and Thurman EM. "Applications of LC/TOF-MS in the Environmental Field: When did it start and where is it going?" in *Liquid Chromatography Time-of-Flight Mass Spectrometry: Principles, Tools, and Applications for Accurate Mass Analysis*, Ferrer I and Thurman EM, Eds., John Wiley & Sons, Inc.; Hoboken, NJ, 2009, Chapter 7, pp 105-111; http://books.google.com/books?hl=en&lr=&id=nhU0dZ9sklwC&oi=fnd&pg=PA105&dq=sewage+pharmaceuticals+OR+drug+OR+ppcps+OR+phacs+-elsevier&ots=AqIzY96l6j&sig=T8glDcOp50R5b7aHMe5JqDiCMWc#v=onepage&q=sewage%20pharmaceuticals%20OR%20drug%20OR%20ppcps%20OR%20phacs%20-elsevier&f=false.

Fichana D. "Green Engineering and Gate-to-gate Life Cycle Assessments for Pharmaceutical Products." Masters Dissertation, Rowan

University, 2005. 142 pp; http://www.rowan.edu/library//rowan_theses/RU2005/0045GREE.PDF.

Fick J, Söderström H, Lindberg RH, Phan C, Tysklind M, and Larsson DGJ. "Contamination of surface, ground, and drinking water from pharmaceutical production." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2522-2527; doi:10.1897/09-073.1.

Field JA, Johnson CA, and Rose JB. "Special issue on emerging contaminants - What is "emerging"?" *Environmental Science & Technology* **2006**, *40*(23):7105.

Fielding M, Gibson TM, James HA, Mcloughlin K, and Steel CP. "Organic micropollutants in drinking water." Water Research Centre, Marlow, UK, 1981, http://www.osti.gov/energycitations/product.biblio.jsp?osti_id=6457017.

Figueroa RA, Leonard A, and Mackay AA. "Modeling tetracycline antibiotic sorption to clays." *Environmental Science & Technology* **2004**, *38*(2):476-483; doi:10.1021/es0342087.

Figueroa RA and Mackay AA. "Sorption of oxytetracycline to iron oxides and iron oxide-rich soils." *Environmental Science & Technology* **2005**, *39*(17):6664-6671; doi:10.1021/es048044l.

Filali-Meknassi Y, Auriol M, Adams CD, and Surampalli RY. "Quantification of steroid sex hormones using solid-phase extraction followed by liquid chromatography-mass spectrometry." *Water Environment Research* **2007**, *79*(6):687-696; doi:10.2175/106143007X156781.

Filali-Meknassi Y, Barata C, and Riva MC. "Endocrine estrogenic disruptors in wastewaters. Mitigation mechanisms in the water treatment [Disruptores endocrinos estrogénicos en las aguas residuales. Mecanismos de mitigaciôn en el tratamiento del agua]." *Afinidad* **2005**, *62*(516):94-99.

Filali-Meknassi Y, Tyagi RD, Surampalli RY, Barata C, and Riva MC. "Endocrine-Disrupting Compounds in Wastewater, Sludge-Treatment Processes, and Receiving Waters: Overview." *Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management* **2004**, *8*(1):39-56.

Filby AL, Neuparth T, Thorpe KL, Owen R, Galloway TS, and Tyler CR. "Health impacts of estrogens in the environment, considering complex mixture effects." *Environmental Health Perspectives* **2007**, *115*(12):1704-1710; doi:10.1289/ehp.10443.

Filby AL, Santos EM, Thorpe KL, Maack G, and Tyler CR. "Gene expression profiling for understanding chemical causation of biological effects for complex mixtures: a case study on estrogens." *Environmental Science & Technology* **2007**, *41*(23):8187-8194; doi:10.1021/es071278v.

Filby AL, Thorpe KL, and Tyler CR. "Multiple molecular effect pathways of an environmental oestrogen in fish." *Journal of Molecular Endocrinology* **2006**, *37*(1):121-134; doi:10.1677/jme.1.01997.

Filby AL and Tyler CR. "Appropriate 'housekeeping' genes for use in expression profiling the effects of environmental estrogens in fish." *EMC Molecular Biology* **2007**, *8*(8):10; doi:10.1186/1471-2199-8-10.

Filippini M, Masiero G, and Moschetti K. "Socioeconomic determinants of regional differences in outpatient antibiotic consumption: Evidence from Switzerland." *Health Policy* **2006**, *78*(1):77-92; doi:10.1016/j.healthpol.2005.09.009.

Filmore D. "Fighting crime with specificity." *Today's Chemist* **2001**, *10*(2):27-32.

Fine DD, Breidenbach GP, Price TL, and Hutchins SR. "Quantitation of estrogens in ground water and swine lagoon samples using solid-phase extraction, pentafluorobenzyl/trimethylsilyl derivatizations and gas chromatography-negative ion chemical ionization tandem mass spectrometry." *Journal of Chromatography A* **2003**, *1017*(1-2):167-185; doi:10.1016/j.chroma.2003.08.021.

Fink J, Lindberg RH, Tysklind M, Haemig PD, Waldenstrom J, Wallensten A*, et al.* "Antiviral Oseltamivir is not removed or degraded in normal sewage water treatment implications for development of resistance by influenza a virus." *PloS One* **2007**, *2*(10):e986; doi:10.1371/journal.pone.0000986.g001.

Finkel E. "The mitochondrion: Is it central to apoptosis?" *Science* **2001**, *292*(5517):624-626; doi:10.1126/science.292.5517.624.

Finne EF, Cooper GA, Koop BF, Hylland K, and Tollefsen KE. "Toxicogenomic responses in rainbow trout (Oncorhynchus mykiss) hepatocytes exposed to model chemicals and a synthetic mixture." *Aquatic Toxicology* **2007**, *81*(3):293-303; doi:10.1016/j.aquatox.2006.12.010.

FIP. "Sustainable flow of pharmaceuticals." *World Congress of Pharmacy and Pharmaceutical Sciences 69th International Congress*

of FIP3 **2009**.

Firfer H. "Study: Germ-fighting chemical could create harmful bacteria." Interactive CNN.com, 1998, CNN, 5 August http://www.cnn.com/HEALTH/9808/05/antibacterial.warning/.

Fisher PMJ and Borland R. "Gauging the pharmaceutical burden on Sydney's environment: a preventative response." *Journal of Cleaner Production* **2003**, *11*(3):315-320; doi:10.1016/S0959-6526(02)00048-3.

Fisher PMJ and Scott R. "Evaluating and controlling pharmaceutical emissions from dairy farms: a critical first step in developing a preventative management approach." *Journal of Cleaner Production* **2008**, *16*(14):1437-1446; doi:10.1016/j.jclepro.2008.04.024.

Fisheries and Oceans Canada. "A scientific review of the potential environmental effects of aquaculture in aquatic ecosystems. Volume III. Near-field organic enrichment from marine finfish aquaculture (D.J. Wildish, M. Dowd, T.F. Sutherland and C.D. Levings); Environmental fate and effect of chemicals associated with Canadian freshwater aquaculture (R.J. Scott). Can Tech Rep Fish Aquat Sci." 2004. ix + 117 p. pp; http://www.uwo.ca/biology/Faculty/scott/SOK_Volume%203_Scott.pdf.

Fiss EM. "The Chlorination of Pharmaceuticals and Other Phenolic Compounds in the Presence of Iodide." Doctoral Dissertation, Environmental Engineering, 2009. http://scholar.lib.vt.edu/theses/available/etd-04172009-132140/.

Fitzsimmons PN, Fernandez JD, Hoffman AD, Butterworth BC, and Nichols JW. "Branchial elimination of superhydrophobic organic compounds by rainbow trout (*Oncorhynchus mykiss*)." *Aquatic Toxicology* **2001**, *55*(1-2):23-34; doi:10.1016/S0166-445X(01)00174-6.

Fitzsimmons PN, Lien GJ, and Nichols JW. "A compilation of in vitro rate and affinity values for xenobiotic biotransformation in fish, measured under physiological conditions." *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* **2007**, *145*(4):485-506; doi:10.1016/j.cbpc.2006.12.011.

Flaherty CM and Dodson SI. "Effects of pharmaceuticals on Daphnia survival, growth, and reproduction." *Chemosphere* **2005**, *61*(2):200-207; doi:10.1016/j.chemosphere.2005.02.016.

Flaherty S, Wark S, Street G, Farley JW, and Brumley WC. "Investigation of capillary electrophoresis-laser induced fluorescence as a tool in the characterization of sewage effluent for fluorescent acids: Determination of salicylic acid." *Electrophoresis* **2002**, *23*(14):2327-2332; doi:10.1002/1522-2683(200207)23:14<2327::AID-ELPS2327>3.0.CO;2-K.

Flammarion P, Brion F, Babut M, Garric J, Migeon B, Noury P*, et al.* "Induction of Fish Vitellogenin and Alterations in Testicular Structure: Preliminary Results of Estrogenic Effects in Chub (Leuciscus cephalus)." *Ecotoxicology* **2000**, *9*(1):127-135; doi:10.1023/A:1008984616206.

Flannagan LM, Butts JD, and Anderson WH. "Fentanyl patches left on dead bodies -- potential source of drug for abusers." *Journal of Forensic Sciences* **1996**, *41*(2):320-321.

Flippin JL, Huggett D, and Foran CM. "Changes in the timing of reproduction following chronic exposure to ibuprofen in Japanese medaka, Oryzias latipes." *Aquatic Toxicology* **2007**, *81*(1):73-78; doi:10.1016/j.aquatox.2006.11.002.

Floate KD. "Off-target effects of ivermectin on insects and on dung degradation in southern Alberta, Canada." *Bulletin of Entomological Research* **1998**, *88*(1):25-35.

Floate KD, Wardhaugh KG, Boxall ABA, and Sherratt TN. "Fecal residues of veterinary parasiticides: Nontarget Effects in the Pasture Environment." *Annual Review of Entomology* **2005**, *50*(1):153-179; doi:10.1146/annurev.ento.50.071803.130341.

Flores A and Hill EM. "Formation of estrogenic brominated ethinylestradiol in drinking water: Implications for aquatic toxicity testing." *Chemosphere* **2008**, *73*(7):1115-1120; doi:10.1016/j.chemosphere.2008.07.022.

Flores-Escribano JC. "Sonolysis of pharmaceutical and personal care products as an advanced oxidation process for the remediation treatment of wastewater effluents." Masters Dissertation, University of Puerto Rico, Mayaguez, Puerto Rico, 2007. 110 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2273520,FM=9,SEARCH=MD.Generic Search.

Focazio MJ, Kolpin DW, Barnes KK, Furlong ET, Meyer MT, Zaugg SD*, et al.* "A national reconnaissance for pharmaceuticals and other organic wastewater contaminants in the United States -- II) Untreated drinking water sources." *Science of the Total Environment* **2008**, *402*(2-3):201-216; doi:10.1016/j.scitotenv.2008.02.021.

Focazio MJ, Kolpin DW, and Furlong ET. "Occurrence of human pharmaceutical in water resources of the United States: A review." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 7, pp 91-104.

Focazio MJ, Kolpin DW, Furlong ET, Barnes KK, Meyer MT, Zaugg SD*, et al.* "Pharmaceuticals and other organic wastewater contaminants in water resources in the United States." *Proceedings of the Water Environment Federation* **2005**, *2005*:132-144; doi:10.2175/193864705783868197.

FOEN "Micropollutants." Web Page maintained by Federal Office for the Environment 2007, http://www.bafu.admin.ch/gewaesserschutz/03716/index.html?lang=en.

Foerster M, Laabs V, Lamshoeft M, Puetz T, and Amelung W. "Analysis of aged sulfadiazine residues in soils using microwave extraction and liquid chromatography tandem mass spectrometry." *Analytical and Bioanalytical Chemistry* **2008**, *391*(3):1029-1038; doi:10.1007/s00216-008-2081-1.

Fogarty B, Regan F, and Dempsey E. "Separation of two groups of oestrogen mimicking compounds using micellar electrokinetic chromatography." *Journal of Chromatography A* **2000**, *895*(1-2):237-246; doi:10.1016/S0021-9673(00)00716-0.

Foissner I and Wasteneys GO. "A cytochalasin-sensitive actin filament meshwork is a prerequisite for local wound wall deposition in Nitella internodal cells." *Protoplasma* **1997**, *200*(1-2):17-30; doi:10.1007/BF01280731.

Folmar LC, Denslow ND, Kroll K, Orlando EF, Enblom J, Marcino J*, et al.* "Altered serum sex steroids and vitellogenin induction in walleye (Stizostedion vitreum) collected near a metropolitan sewage treatment plant." *Archives of Environmental Contamination and Toxicology* **2001**, *40*(3):392-398; doi:10.1007/s002440010188.

Folmar LC, Denslow ND, Rao V, Chow M, Crain DA, Enblom J*, et al.* "Vitellogenin induction and reduced serum testosterone concentrations in feral male carp (Cyprinus carpio) captured near a major metropolitan sewage treatment plant." *Environmental Health Perspectives* **1996**, *104*(10):1096-1101.

Folmar LC, Hemmer M, Hemmer R, Bowman C, Kroll K, and Denslow ND. "Comparative estrogenicity of estradiol, ethynyl estradiol and diethylstilbestrol in an in vivo, male sheepshead minnow (Cyprinodon variegatus), vitellogenin bioassay." *Aquatic Toxicology* **2000**, *49*(1-2):77-88; doi:10.1016/S0166-445X(99)00076-4.

Folmar LC, Hemmer MJ, Denslow ND, Kroll K, Chen J, Cheek A*, et al.* "A comparison of the estrogenic potencies of estradiol, ethynylestradiol, diethylstilbestrol, nonylphenol and methoxychlor in vivo and in vitro." *Aquatic Toxicology* **2002**, *60*(1-2):101-110; doi:10.1016/S0166-445X(01)00276-4.

Fong P and Molnar N. "Norfluoxetine Induces Spawning and Parturition in Estuarine and Freshwater Bivalves." *Bulletin of Environmental Contamination and Toxicology* **2008**, *81*(6):535-538; doi:10.1007/s00128-008-9558-7.

Fong PP "Complete list of publications." http://www.gettysburg.edu/~pfong/fong4.htm.

Fong PP. "Zebra mussel spawning is induced in low concentrations of putative serotonin reuptake inhibitors." *Biological Bulletin* **1998**, *194*(2):143-149.

Fong PP. "Antidepressants in aquatic organisms: a wide range." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 15, pp 364-281; doi:10.1021/bk-2001-0791.ch015; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Fong PP, Hardege JD, and Ram JL. "Long-lasting, sex-specific inhibition of serotonin-induced spawning by methiothepin in the zebra mussel, Dreissena polymorpha (Pallas)." *Journal of Experimental Zoology* **1994**, *270*(3):314-320; doi:10.1002/jez.1402700310.

Fong PP, Huminski PT, and d'Urso LM. "Induction and potentiation of parturition in fingernail clams (Sphaerium striatinum) by selective serotonin re-uptake inhibitors (SSRIs)." *Journal of Experimental Zoology Part A: Comparative Experimental Biology* **1998**, *280*(3):260-264; doi:10.1002/(SICI)1097-010X(19980215)280:3<260::AID-JEZ7>3.0.CO;2-L.

Fong PP, Philbert CM, and Roberts BJ. "Putative serotonin reuptake inhibitor-induced spawning and parturition in freshwater bivalves is inhibited by mammalian 5-HT2 receptor antagonists." *Journal of Experimental Zoology Part A: Comparative Experimental Biology* **2003**, *298*(A(1)):67-72; doi:10.1002/jez.a.10279.

Fono LJ. "The use of wastewater-derlved chemical tracers to access unintentional water reuse." Doctoral Dissertation, University of

Berkeley, Berkeley, CA, 2006. 167 pp.

Fono LJ, Kolodziej EP, and Sedlak DL. "Attenuation of Wastewater-Derived Contaminants in an Effluent-Dominated River." *Environmental Science & Technology* **2006**, *40*(23):7257-7262.

Fono LJ and Sedlak DL. "Use of the Chiral Pharmaceutical Propranolol to Identify Sewage Discharges into Surface Waters." *Environmental Science & Technology* **2005**, *39*(23):9244-9252.

Fono LJ and Sedlak DL. "A simple method for the measurement of organic iodine in wastewater and surface water." *Water Research* **2007**, *41*(7):1580-1586; doi:10.1016/j.watres.2006.12.032.

Fontanals N, Marce R, Cormack P, Sherrington D, and Borrull F. "Monodisperse, hypercrosslinked polymer microspheres as tailor-made sorbents for highly efficient solid-phase extractions of polar pollutants from water samples." *Journal of Chromatography A* **2008**, *1191*(1-2):118-124.

Fooken C. "Synthetic musks in suspended particulate matter (SPM), sediment, and sewage sludge." in *Synthetic Musk Fragrances in the Environment*, Rimkus GG, Ed., Springer-Verlag; Heidelberg, 2004, pp 29-47.

Foran CM, Bennett ER, and Benson WH. "Developmental evaluation of a potential non-steroidal estrogen: triclosan." *Marine Environmental Research* **2000**, *50*(1):153-156; doi:10.1016/S0141-1136(00)00080-5.

Foran CM, Peterson BN, and Benson WH. "Transgenerational and developmental exposure of Japanese medaka (Oryzias latipes) to ethinylestradiol results in endocrine and reproductive differences in the response to ethinylestradiol as adults." *Toxicological Sciences* **2002**, *68*(2):389-402.

Foran CM, Weston J, Slattery M, Brooks BW, and Huggett DB. "Reproductive assessment of Japanese medaka (Oryzias latipes) following a four-week fluoxetine (SSRI) exposure." *Archives of Environmental Contamination and Toxicology* **2004**, *46*(4):511-517; doi:10.1007/s00244-003-3042-5.

Forbes AJ, Ross AJ, and Rees JA. "Disposal of medicines by the public [This reference was found to be cited in the work of others but its accuracy could not be verified]." *The Pharmaceutical Journal* **1989**, *243*(Suppl):R9-R11.

Forbes VE. "Is hormesis an evolutionary expectation?" *Functional Ecology* **2000**, *14*(1):12-24; doi:10.1046/j.1365-2435.2000.00392.x.

Forbes VE and Calow P. "Is the per capita rate of increase a good measure of population-level effects in ecotoxicology?" *Environmental Toxicology and Chemistry* **1999**, *18*(7):1544-1556; doi:10.1897/1551-5028(1999)018<1544:ITPCRO>2.3.CO;2.

Forbes VE, Calow P, and Sibly RM. "Are current species extrapolation models a good basis for ecological risk assessment?" *Environmental Toxicology and Chemistry* **2001**, *20*(2):442-447.

Ford RA. "The human safety of the polycyclic musks AHTN and HHCB in fragrances- A review." *Deutsche Lebensmittel-Rundschau* **1998**, *94*(8):268-275.

Ford RA. "The safety of nitromusks in fragrances - A review." *Deutsche Lebensmittel-Rundschau* **1998**, *94*(6):192-200.

Ford RA, Api AM, and Newberne PM. "90-day dermal toxicity study and neurotoxicity evaluation of nitromusks in the albino rat." *Food and Chemical Toxicology* **1990**, *28*(1):55-61.

Forester CD and Wells JR. "Yields of Carbonyl Products from Gas-Phase Reactions of Fragrance Compounds with OH Radical and Ozone." *Environmental Science & Technology* **2009**, *43*(10):3561-3568; doi:10.1021/es803465v.

Forni C, Cascone A, Fiori M, and Migliore L. "Sulphadimethoxine and Azolla filiculoides Lam.: a model for drug remediation." *Water Research* **2002**, *36*(13):3398-3403; doi:10.1016/S0043-1354(02)00015-5.

Forrez I, Carballa M, Boon N, and Verstraete W. "Biological removal of 17α-ethinylestradiol (EE2) in an aerated nitrifying fixed bed reactor during ammonium starvation." *Journal of Chemical Technology and Biotechnology* **2009**, *84*(1):119-125; doi:10.1002/jctb.2016.

Forrez I, Carballa M, Noppe H, De Brabander H, Boon N, and Verstraete W. "Influence of manganese and ammonium oxidation on the removal of 17α-ethinylestradiol (EE2)." *Water Research* **2009**, *43*(1):77-86; doi:10.1016/j.watres.2008.10.006.

Förster M, Laabs V, Lamshöft M, Groeneweg J, Zühlke S, Spiteller M*, et al.* "Sequestration of Manure-Applied Sulfadiazine Residues in Soils." *Environmental Science & Technology* **2009**, *43*(6):1824-1830; doi:10.1021/es8026538.

Forte GB and Alderslade R. "Inappropriate drug-donation practices in Bosnia and Herzegovina, 1992 to 1996." *New England Journal of Medicine* **1997**, *337*(25):1842-1845.

Forth W, Henschler D, Rummel W, and Starke K. "Allgemeine und spezielle Pharmakologie und Toxikologie. General and special pharmaceutics and toxicology." *Wissenschaftsverlag Mannheim/Leipzig/Wien/Zürich, Germany* **1996**, *6*(Auflage).

Fortner NA. "The Detection of Drugs in Sweat." in *Forensic Science and Medicine: Drug Testing in Alternate Biological Specimens*, Jenkins AJ, Ed., Humana Press; Totowa, NJ, 2008, 6, pp 101-116; http://dx.doi.org/10.1007/978-1-59745-318-9_6.

Fortt AZ and Buschmann AR. "Use and abuse of antibiotics in salmon farming." OCEANA, January, 2007, 13 pp; http://www.oceana.org/fileadmin/oceana/uploads/americadelsur/documentos_2007/Uso_antibioticos_en_la_salmonicultura__version_ingles_.pdf.

Fossier P, Blanchard B, Ducrocq C, Leprince C, Tauc L, and Baux G. "Nitric oxide transforms serotonin into an inactive form and this affects neuromodulation." *Neuroscience* **1999**, *93*(2):597-603; doi:10.1016/S0306-4522(99)00165-7.

Foster WG. "Endocrine Disruption and Human Reproductive Effects: An Overview." *Water Quality Research Journal of Canada* **2001**, *36*(3):253-271.

Foster WG. "Do environmental contaminants adversely affect human reproductive physiology?" *Journal of Obstetrics and Gynaecology of Canada* **2003**, *25*(1):33-44.

Foster WG and Agzarian J. "Toward less confusing terminology in endocrine disruptor research." *Journal of Toxicology and Environmental Health, Part B Critical Review* **2008**, *11*(3-4):152-161; doi:10.1080/00927870701873214.

Fountoulakis M, Drillia P, Stamatelatou K, and Lyberatos G. "Toxic effect of pharmaceuticals on methanogenesis." *Water Science and Technology* **2004**, *50*(5):335-340.

Fountoulakis MS, Stamatelatou K, and Lyberatos G. "The effect of pharmaceuticals on the kinetics of methanogenesis and acetogenesis." *Bioresource Technology* **2008**, *99*(15):7083-7090; doi:10.1016/j.biortech.2008.01.008.

Fowler JS, Volkow ND, Wang G-J, Gatley SJ, and Logan J. "[^{11}]Cocaine: PET studies of cocaine pharmacokinetics, dopamine transporter availability and dopamine transporter occupancy." *Nuclear Medicine and Biology* **2001**, *28*(5):561-572; doi:10.1016/S0969-8051(01)00211-6.

Fox JE. "Chemical communication threatened by endocrine-disrupting chemicals." *Environmental Health Perspectives* **2004**, *112*(6):648-653; doi:10.1289/ehp.6455.

Fox JE. "Non-traditional targets of endocrine disrupting chemicals: The roots of hormone signaling." *Integrative and Comparative Biology* **2005**, *45*(1):179-188; doi:10.1093/icb/45.1.179.

Fox JE, Starcevic M, Jones PE, Burrow ME, and McLachlan JA. "Phytoestrogen signaling and symbiotic gene activation are disrupted by endocrine-disrupting chemicals." *Environmental Health Perspectives* **2004**, *112*(6):672-677.

Fraker SL and Smith GR. "Direct and interactive effects of ecologically relevant concentrations of organic wastewater contaminants on Rana pipiens tadpoles." *Environmental Toxicology* **2004**, *19*(3):250-256; doi:10.1002/tox.20017.

Franke S, Meyer C, Heinzel N, Gatermann R, Hühnerfuss H, Rimkus G*, et al.* "Enantiomeric composition of the polycyclic musks HHCB and AHTN in different aquatic species." *Chirality* **1999**, *11*(10):795-801.

Franklin RL and Rodgers GB. "Unintentional Child Poisonings Treated in United States Hospital Emergency Departments: National Estimates of Incident Cases, Population-Based Poisoning Rates, and Product Involvement." *Pediatrics* **2008**, *122*(6):1244-1251; doi:10.1542/peds.2007-3551.

Franklin SL and Geffner ME. "Precocious puberty secondary to topical testosterone exposure." *Journal of Pediatric Endocrinology and Metabolism* **2003**, *16*(1):107-110.

Franks C. "Phytoremediation of pharmaceuticals with Salix exigua." Masters Dissertation, University of Lethbridge, Lethbridge, Alberta, Canada, 2006. 216 pp.

Fransman W. "Antineoplastic drugs Occupational exposure and health risks." Doctoral Dissertation, Utrecht University, Nijkerk, The Netherlands, 2006. 168 pp; http://igitur-archive.library.uu.nl/dissertations/2006-1003-200854/full.pdf#page=131.

Fransman W, Huizer D, Tuerk J, and Kromhout H. "Inhalation and dermal exposure to eight antineoplastic drugs in an industrial laundry facility." *International Archives of Occupational and Environmental Health* **2007**, *80*(5):396-403; doi:10.1007/s00420-006-0148-x.

Fransman W, Vermeulen R, and Kromhout H. "Dermal exposure to cyclophosphamide in hospitals during preparation, nursing and cleaning activities." *International Archives of Occupational and Environmental Health* **2005**, *78*(5):403-412; doi:10.1007/s00420-004-0595-1.

Franz S, Altenburger R, Heilmeier H, and Schmitt-Jansen M. "What contributes to the sensitivity of microalgae to triclosan?" *Aquatic Toxicology* **2008**, *90*(2):102-108; doi:10.1016/j.aquatox.2008.08.003.

Fraunhofer IUSE "Purified wastewater from hospitals." Web Page maintained by Fraunhofer Institut Unwelt-, Sicherheits-, Engergietechnik UMSICHT 2007, http://www.umsicht.fraunhofer.de/englisch/presse/bericht.php?titel=071207_wastewater_from_hospitals.

Fraysse B and Garric J. "Prediction and experimental validation of acute toxicity of β-blockers in Ceriodaphnia dubia." *Environmental Toxicology and Chemistry* **2005**, *24*(10):2470-2476; doi:10.1897/04-541R.1.

Fraysse B, Mons R, and Garric J. "Development of a zebrafish 4-day embryo-larval bioassay to assess toxicity of chemicals." *Ecotoxicology and Environmental Safety* **2006**, *63*(2):253-267; doi:10.1016/j.ecoenv.2004.10.015.

Fredholm L. "Chemical Testing: Sweden to get tough on lingering compounds." *Science* **2000**, *290*(5497):1663-1666; doi:10.1126/science.290.5497.1663b.

Fredrix E. "Pharmaceutical disposal companies turn unwanted drugs into power." GazetteXtra, 2007, http://www.gazetteextra.com/pillstopower072707.asp.

Freidig AP, Verhaar HJM, and Hermens JLM. "Comparing the potency of chemicals with multiple modes of action in aquatic toxicology: Acute toxicity due to narcosis versus reactive toxicity of acrylic compounds." *Environmental Science & Technology* **1999**, *33*:3038-3043; doi:10.1021/es990251b.

Fremont-Smith K. "Adverse Drug Reactions in Hospitalized Patients." *The Journal of the American Medical Association* **1998**, *280*(20):1741-1744.

Friberg M. "'Läkemedel ingår i kretsloppet' (Medicines are part of the eco-cycle)." *Fakta* **1997**, *4*:2.

Frick EA, Henderson AK, Moll DM, Furlong ET, and Meyer MT. "Presence of pharmaceuticals in wastewater effluent and drinking water, metropolitan Atlanta, Georgia, July-September 1999." in 2001 Georgia Water Resources Conference, University of Georgia, Athens, Georgia, 2001, 282-282 pp; http://ga.water.usgs.gov/nawqa/Pharm_final.pdf.

Frick EA and Zaugg SD. "Organic wastewater contaminants in the Upper Chattahoochee River Basin, Georgia, 1999–2002." in 2003 Georgia Water Resources Conference, University of Georgia, Athens, Georgia, 2003, 7 pp; http://cms.ce.gatech.edu/gwri/uploads/proceedings/2003/Frick%20and%20Zaugg.pdf.

Friel PN, Hinchcliffe C, and Wright JV. "Hormone replacement with estradiol: conventional oral doses result in excessive exposure to estrone." *Alternative Medicine Review* **2005**, *10*(1):36-41.

Fries E and Puttmann W. "Monitoring of the antioxidant BHT and its metabolite BHT-CHO in German river water and ground water." *Science of the Total Environment* **2004**, *319*(1-3):269-282; doi:10.1016/S0048-9697(03)00447-9.

Frimmel FH and Doll TE. "Xenobiotic pharmaceuticals in water and methods to prevent their appearance in drinking water." in *Soil and Water Pollution Monitoring, Protection and Remediation*, Twardowska I, Allen HE and Häggblom MH, Eds., Springer; The Netherlands, 2006, pp 339-350; doi:10.1007/978-1-4020-4728-2_22; http://dx.doi.org/10.1007/978-1-4020-4728-2_22.

Froehner K, Backhaus T, and Grimme LH. "Bioassays with Vibrio fischeri for the assessment of delayed toxicity." *Chemosphere* **2000**, *40*(8):821-828; doi:10.1016/S0045-6535(99)00274-X.

Froese R and Pauly D "FishBase World Wide Web Electronic Publication." 2008; http://www.fishbase.org/search.php

www.fishbase.org, version (01/2008).

Fromme H, Lahrz T, Piloty M, Gebhart H, Oddoy A, and Rüden H. "Occurrence of phthalates and musk fragrances in indoor air and dust from apartments and kindergartens in Berlin (Germany)." *Indoor Air* **2004**, *14*(3):188-195; doi:10.1111/j.1600-0668.2004.00223.x.

Fromme H, Otto T, and Pilz K. "Polycyclic musk fragrances in different environmental compartments in Berlin (Germany)." *Water Research* **2001**, *35*(1):121-128; doi:10.1016/S0043-1354(00)00233-5.

Fromme H, Otto T, and Pilz K. "Polycyclic musk fragrances in fish samples from Berlin waterways, Germany." *Food Additives and Contaminants* **2001**, *18*(11):937-944; doi:10.1080/02652030110063579.

Fromme H, Otto T, Pilz K, and Neugebauer F. "Levels of synthetic musks; Bromocyclene and PCBs in eel (anguilla anguilla) and PCBs in sediment samples from some waters of Berlin/Germany." *Chemosphere* **1999**, *39*(10):1723-1735; doi:10.1016/S0045-6535(99)00066-1.

Frost N. "In aquae veritas? – First European meeting on drugs and their metabolites in wastewater." European Monitoring Centre for Drugs and Drug Addiction EMCDDA, April-June, 2007, 1 pp; http://www.emcdda.europa.eu/html.cfm/index31432EN.html.

Frost N and Griffiths P. "Assessing illicit drugs in wastewater: Potential and limitations of a new monitoring approach." Lisbon, Portugal, European Monitoring Centre for Drugs and Drug Addiction (EMCDDA), 2008, 100 pp; http://www.emcdda.europa.eu/attachements.cfm/att_65636_EN_EMCDDA-insights9-wastewater.pdf.

Frost N and Griffiths P. "Introduction to sewage epidemiology and the wastewater system." in *Assessing illicit drugs in wastewater: Potential and limitations of a new monitoring approach*, European Monitoring Centre for Drugs and Drug Addiction (EMCDDA); Lisbon, Portugal, 2008, Chapter 1, pp 9-20; http://www.emcdda.europa.eu/attachements.cfm/att_65636_EN_EMCDDA-insights9-wastewater.pdf.

Frost N, Griffiths P, and Fanelli R. "Peering into dirty waters: the potential and implications of a new approach to monitoring drug consumption." *Addiction* **2008**, *103*(8):1239-1241; doi:10.1111/j.1360-0443.2008.02204.x.

Fu W, Franco A, and Trapp S. "Methods for estimating the bioconcentration factor of ionizable organic chemicals." *Environmental Toxicology and Chemistry* **2009**, *28*(7):1372-1379; doi:10.1897/08-233.1.

Fucci N, De Giovanni N, and Scarlata S. "Sweat testing in addicts under methadone treatment: An Italian experience." *Forensic Science International* **2008**, *174*(2-3):107-110; doi:10.1016/j.forsciint.2007.03.010.

Fuentes A, Liorens M, and Aguilar MI. "Primary treatment of an effluent from a pharmaceutical synthesis industry using a physical-chemical coagulation-flocculation operation." *Afinidad - Barcelona* **2004**, *61*(509):33-38.

Fuerhacker M. "EU Water Framework Directive and Stockholm Convention." *Environmental Science and Pollution Research* **2009**, *16*(Supp 1):92-97; doi:10.1007/s11356-009-0126-4.

Fuerhacker M, Dürauer A, and Jungbauer A. "Adsorption isotherms of 17β-estradiol on granular activated carbon (GAC)." *Chemosphere* **2001**, *44*(7):1573-1579.

Fuerhacker M, Lorbeer G, and Haberl R. "Emission factors and sources of ethylene-diaminetetraacetic acid in waste water--a case study." *Chemosphere* **2003**, *52*(1):253-257; doi:10.1016/S0045-6535(03)00037-7.

Fugh-Berman A and Ahari S. "Following the Script: How Drug Reps Make Friends and Influence Doctors." *PLoS Medicine* **2007**, *4*(4):e150; doi:10.1371/journal.pmed.0040150.

Fujioka Y. "Effects of hormone treatments and temperature on sex-reversal of Nigorobuna Carassius carassius grandoculis." *Fisheries Science* **2002**, *68*(4):889-893; doi:10.1046/j.1444-2906.2002.00507.x.

Fukutsu N, Kawasaki T, Saito K, and Nakazawa H. "An Approach for Decontamination of β-lactam Antibiotic Residues or Contaminants in the Pharmaceutical Manufacturing Environment." *Chemical & Pharmaceutical Bulletin* **2006**, *54*(9):1340-1343.

Fulton B, Brain R, Usenko S, Back J, King R, and Brooks B. "Influence of Nitrogen and Phosphorus concentrations and ratios on Lemna gibba growth responses to triclosan in laboratory and stream mesocosm experiments." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2610-2621; doi:10.1897/08-526.1.

Fürhacker M, Breithofer A, and Jungbauer A. "17β-estradiol: Behavior during waste water analyses." *Chemosphere* **1999**, *39*(11):1903-1909; doi:10.1016/S0045-6535(99)00084-3.

Furlong ET, Ferrer I, Gates PM, Cahill JD, and Thurman EM. "Identification of labile polar organic contaminants by atmospheric-pressure ionization tandem mass spectrometry." in *ACS Symposium #850: Liquid Chromatography/Mass Spectrometry, MS/MS and Time of Flight MS: Analysis of Emerging Contaminants*, Almagor UM, Ed., American Chemical Society; 2003, Chapter 11, pp 175-187; http://www.powells.com/biblio?isbn=9780841238251.

Furlong ET, Kinney CA, Ferrer I, Werner S, Cahill J, and Ratterman G. "Pharmaceuticals and personal care products in solids: Analysis and field results for sediment, soil and biosolid samples." *Abstracts of Papers - American Chemical Society* **2004**, *228*(1 August 22):U620-U620.

Furlong ET, Kinney CA, Ferrer I, Werner SL, and Ratterman G. "Determination of human health pharmaceuticals and antimicrobials in terrestrial and aquatic solids." in 2008, pp.

Furlong ET, Werner SL, Anderson BD, and Cahill JD. "Determination of Human-Health Pharmaceuticals in Filtered Water by Chemically Modified Styrene-Divinylbenzene Resin-Based Solid-Phase Extraction and High-Performance Liquid Chromatography/Mass Spectrometry." in *US Geological Survey Techniques and Methods, book 5*, 2008, sec. B, chap. B5, pp 56 pp; http://pubs.usgs.gov/tm/tm5b5/.

Furuichi T, Kannan K, Giesy JP, and Masunaga S. "Contribution of known endocrine disrupting substances to the estrogenic activity in Tama River water samples from Japan using instrumental analysis and in vitro reporter gene assay." *Water Research* **2004**, *38*(20):4491-4501; doi:10.1016/j.watres.2004.08.007.

Furuichi T, Kannan K, Suzuki K, Tanaka S, Giesy JP, and Masunaga S. "Occurrence of estrogenic compounds in and removal by a swine farm waste treatment plant." *Environmental Science & Technology* **2006**, *40*(24):7896-7902; doi:10.1021/es0609598.

Furusawa N. "A harmless method for determining trenbolone acetate together with 17β-trenbolone in beef." *Journal of Chromatographic Science* **2009**, *47*:243-246.

Gabet V, Miege C, Bados P, and Coquery M. "Analysis of estrogens in environmental matrices." *Trends in Analytical Chemistry* **2007**, *26*(11):1113-1131.

Gabriele ML, Perissinotto E, Simoncello I, Baroni A, and Romano M. "[Drugs and health. 2. Study on the presence, use, storage and disposal of drugs in a sample of families in Adria (Rovigo) Local Health Unit 31, Venetian region]." *Annali di Igiene* **1989**, *1*(5):1029-1041.

Gadd JB. "Steroid Estrogens and Estrogenic Activity in Farm Dairy Shed Effluents." Doctoral Dissertation, University of Canterbury, Christchurch, New Zealand, 2009. 209 pp; http://ir.canterbury.ac.nz/handle/10092/2192.

Gadd JB, Tremblay LA, and Northcott GL. "Steroid estrogens, conjugated estrogens and estrogenic activity in farm dairy shed effluents." *Environmental Pollution* **2009**, *In Press*; doi:10.1016/j.envpol.2009.10.015.

Gagnaire B, Gagné F, André C, Blaise C, Abbaci K, Budzinski H*, et al.* "Development of biomarkers of stress related to endocrine disruption in gastropods: Alkali-labile phosphates, protein-bound lipids and vitellogenin-like proteins." *Aquatic Toxicology* **2009**, *92*(3):155-167; doi:10.1016/j.aquatox.2009.01.012.

Gagne F, Andre C, Cejka P, Gagnon C, and Blaise C. "Toxicological effects of primary-treated urban wastewaters, before and after ozone treatment, on freshwater mussels (Elliptio complanata)." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2007**, *145*(4):542-552; doi:10.1016/j.cbpc.2007.01.019.

Gagne F, Andre C, Cejka P, Hausler R, Fournier M, and Blaise C. "Immunotoxic effects on freshwater mussels of a primary-treated wastewater before and after ozonation: A pilot plant study." *Ecotoxicology and Environmental Safety* **2008**, *69*(3):366-373.

Gagne F, Berube E, Fournier M, and Blaise C. "Inflammatory properties of municipal effluents to Elliptio complanata mussels -- lack of effects from anti-inflammatory drugs." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2005**, *141*(4):332-337; doi:10.1016/j.cca.2005.06.006.

Gagne F and Blaise C. "Effects of municipal effluents on serotonin and dopamine levels in the freshwater mussel Elliptio complanata." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2003**, *136*(2):117-125; doi:10.1016/S1532-0456(03)00171-6.

Gagne F, Blaise C, and Andre C. "Occurrence of pharmaceutical products in a municipal effluent and toxicity to rainbow trout (Oncorhynchus mykiss) hepatocytes." *Ecotoxicology and Environmental Safety* **2006**, *64*(3):329-336; doi:10.1016/j.ecoenv.2005.04.004.

Gagne F, Blaise C, Andre C, Gagnon C, and Salazar M. "Neuroendocrine disruption and health effects in Elliptio complanata mussels exposed to aeration lagoons for wastewater treatment." *Chemosphere* **2007**, *68*(4):731-743; doi:10.1016/j.chemosphere.2006.12.101.

Gagné F, Blaise C, André C, and Salazar M. "Effects of pharmaceutical products and municipal wastewaters on temperature-dependent mitochondrial electron transport activity in Elliptio complanata mussels." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2006**, *143*(4):388-393; doi:10.1016/j.cbpc.2006.04.013.

Gagne F, Blaise C, Fournier M, and Hansen PD. "Effects of selected pharmaceutical products on phagocytic activity in Elliptio complanata mussels." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2006**, *143*(2):179-186; doi:10.1016/j.cbpc.2006.01.008.

Gagne F, Blaise C, and Hellou J. "Endocrine disruption and health effects of caged mussels, Elliptio complanata, placed downstream from a primary-treated municipal effluent plume for 1 year." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2004**, *138*(1):33-44; doi:10.1016/j.cca.2004.04.006.

Gagne F, Blaise C, Lachance B, Sunahara GI, and Sabik H. "Evidence of coprostanol estrogenicity to the freshwater mussel Elliptio complanata." *Environmental Pollution* **2001**, *115*(1):97-106; doi:10.1016/S0269-7491(01)00089-6.

Gagne F, Blaise C, Salazar M, Salazar S, and Hansen PD. "Evaluation of estrogenic effects of municipal effluents to the freshwater mussel Elliptio complanata." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2001**, *128*(2):213-225; doi:10.1016/S1532-0456(00)00189-7.

Gagne F, Eullaffroy P, and Blaise C. "Development of a competitive enzymatic immunoassay for carbamazepine in biological tissues [This reference was found to be cited in the work of others but its accuracy could not be verified]." *Fresenius Environmental Bulletin* **2006**, *15*(12A,S1):1512-1516.

Gagne F, Fournier M, and Blaise C. "Serotonergic effects of municipal effluents: Induced spawning activity in freshwater mussels." *Fresenius Environmental Bulletin* **2006**, *13*(11A):1099-1103.

Gagnon E. "Pharmaceutical Disposal Programs: A Canadian Perspective." Health Canada, Maine, 10-11 November 2008; http://www.mainebenzo.org/documents/PharmaceuticalDisposalPrograms_aCanadianPerspective.ppt.

Gaido KW, McDonnell DP, Korach KS, and Safe SH. "Estrogenic activity of chemical mixtures: Is there synergism?" *CIIT Activities* **1997**, *17*(2):1-7.

Gaikowski MP, Larson WJ, and Gingerich WH. "Survival of cool and warm freshwater fish following chloramine-T exposure." *Aquaculture* **2008**, *275*(1-4):20-25; doi:10.1016/j.aquaculture.2007.12.017.

Gaini LE, Lakraimi M, Sebbar E, Meghea A, and Bakasse M. "Removal of indigo carmine dye from water to Mg-Al-CO_3-Calcined layered double hydroxides." *Journal of Hazardous Materials* **2009**, *161*(2-3):627-632; doi:10.1016/j.jhazmat.2008.04.089.

Gajjar B. "Modern Medicines in Drinking Water." in *An Introduction to Environmental Pharmacology*, 1st ed.; Rahman SZ, Shahid M and Gupta V, Eds., Ibn Sina Academy; Aligarh, India, 2008, 10, pp.

Gajurel DR, Gulyas H, Reich M, and Otterpohl R. "Behaviour of four selected pharmaceuticals during long-term storage of yellowwater." in International Conference on Sustainable Sanitation: ‘‘Food and Water Security for Latin Ameria", Fortaleza, Ceará, Brasil, 26-28 November, 2007, 4 pp; http://www.tu-harburg.de/aww/publikationen/pdf/Gajurel_etal.pdf.

Galagan Y and Su WF. "Fadable ink for time-temperature control of food freshness: Novel new time-temperature indicator." *Food Research International* **2008**, *41*(6):653-657; doi:10.1016/j.foodres.2008.04.012.

Gale J. 2009, "India Failing to Control Open Defecation Blunts Nation’s Growth." Bloomberg.com, 1-7 pp; http://www.bloomberg.com/apps/news?pid=20601109&sid=aErNiP_V4RLc&refer=home.

Gale RW, Cranor WL, Alvarez DA, Huckins JN, Petty JD, and Robertson GL. "Semivolatile Organic Compounds in Residential Air along the Arizona—Mexico Border." *Environmental Science & Technology* **2009**, *43*(9):3054-3060; doi:10.1021/es803482u.

Gale WL, Fitzpatrick MS, Lucero M, Contreras-Sánchez WM, and Schreck CB. "Masculinization of Nile tilapia (Oreochromis

niloticus) by immersion in androgens." *Aquaculture* **1999**, *178*(3-4):349-357; doi:10.1016/S0044-8486(99)00136-2.

Gale WL, Patino R, and Maule AG. "Interaction of xenobiotics with estrogen receptorsα and β and a putative plasma sex hormone-binding globulin from channel catfish (Ictalurus unctatus)." *General and Comparative Endocrinology* **2004**, *136*(3):338-345; doi:10.1016/j.ygcen.2004.01.009.

Galli R and Braun C. "Integrative risk assessment of endocrine disruptors in Switzerland." *Chimia* **2008**, *62*(5):417-423; doi:10.2533/chimia.2008.417.

Gallo P, Nasi A, Vinci F, Guadagnuolo G, Brambilla G, Fiori M*, et al.* "Development of a liquid chromatography/electrospray tandem mass spectrometry method for confirmation of chloramphenicol residues in milk after alfa-1-acid glycoprotein affinity chromatography." *Rapid Communications in Mass Spectrometry* **2005**, *19*(4):574-579; doi:10.1002/rcm.1825.

Galvez F, Donini A, Playle RC, Smith DS, O'Donnell MJ, and Wood CM. "A Matter of Potential Concern: Natural Organic Matter Alters the Electrical Properties of Fish Gills." *Environmental Science & Technology* **2008**, *42*(24):9385-9390; doi:10.1021/es8005332.

Galvez JI, Mazik PM, Phelps RP, and Mulvaney DR. "Masculinization of channel catfish ictalurus punctatus by oral administration of trenbolone acetate." *Journal of the World Aquaculture Society* **1995**, *26*(4):378-383; doi:10.1111/j.1749-7345.1995.tb00832.x.

Galvin D. "Household pharmaceutical disposal: Issue overview." 2007; http://www.productstewardship.net/powerpoints/productsPharmaceuticalsOverview040607.ppt.

Gamiz-Gracia L and Luque de Castro MD. "Integrated pervaporation/detection for the determination of fluoride in pharmaceuticals." *Journal of Pharmaceutical and Biomedical Analysis* **2000**, *22*(6):909-913; doi:10.1016/S0731-7085(00)00287-9.

Gan J, Ruan Q, He B, Zhu M, Shyu WC, and Humphreys WG. "In Vitro Screening of 50 Highly Prescribed Drugs for Thiol Adduct Formation-Comparison of Potential for Drug-Induced Toxicity and Extent of Adduct Formation." *Chemical Research in Toxicology* **2009**, *22*(4):690-698; doi:10.1021/tx800368n.

Gangagni Rao A, Venkata Naidu G, Krishna Prasad K, Chandrasekhar Rao N, Venkata Mohan S, Jetty A*, et al.* "Anaerobic treatment of wastewater with high suspended solids from a bulk drug industry using fixed film reactor (AFFR)." *Bioresource Technology* **2005**, *96*(1):87-93.

Gangle BJ. "Sources and Occurrence of Antibiotic Resistance in the Environment." Masters Dissertation, University of Maryland, College Park, MD, 2005. 125 pp; http://www.lib.umd.edu/drum/handle/1903/2641.

Ganiyat AM. "The toxicological evaluation of sewage effluents and pharmaceuticals with the use of zebrafish as a model organism." Masters Dissertation, Swedish University of Agricultural Sciences, Department of Biomedical Sciences and Veterinary Public Health, Uppsala, Sweden, 2008. 58 pp; http://diss-epsilon.slu.se/archive/00001694/.

Gans O, Sattelberg R, and Scharf S. "Analysis of selected pharmaceuticals in influents and effluents of municipal sewage treatment plants in Austria." *Vom Wasser* **2002**, *98*:165-176.

Gao J and Pedersen JA. "Adsorption of Sulfonamide Antimicrobial Agents to Clay Minerals." *Environmental Science & Technology* **2005**, *39*(24):9509-9516.

Gao W and Shao Y. "Freeze concentration for removal of pharmaceutically active compounds in water." *Desalination* **2009**, *249*(1):398-402; doi:10.1016/j.desal.2008.12.065.

Gao Y, Sun X, Sun Z, Zhao N, and Li Y. "Toxic effects of enrofloxacin on growth rate and catalase activity in Eisenia fetida." *Environmental Toxicology and Pharmacology* **2008**, *26*(2):177-180; doi:10.1016/j.etap.2008.03.004.

Gao Y, Sun Z, Sun X, Sun Y, and Shi W. "Toxic effects of albendazole on adenosine triphosphatase activity and ultrastructure in Eisenia fetida." *Ecotoxicology and Environmental Safety* **2007**, *67*(3):378-384; doi:10.1016/j.ecoenv.2006.10.008.

Garand-Sheridan A-M. "Evaluation of novel polyethersulfone membranes developed using charged surface modifying macromolecules for the removal of pharmaceutically active compounds and endocrine disrupting compounds from drinking water." Masters Dissertation, University of Ottawa (Canada), Ottawa, Ontario, Canada, 2008. 190 pp.

Garcia A, Rivas HM, Figueroa JL, and Monroe AL. "Case history: Pharmaceutical wastewater treatment plant upgrade, SmithKline Beecham Pharmaceuticals Company." *Desalination* **1995**, *102*(1-3):255-263; doi:10.1016/0011-9164(95)00061-6.

Garcia J, Marquez A, Ruiz R, Lopez LF, Claro C, and Lucero MJ. "Determination of foscarnet (trisodium phosphonoformate) in pharmaceutical preparations by high-performance liquid chromatography with ultraviolet detection." *Biomedical Chromatography* **2006**, *20*(10):1024-1027.

García MDG, Cañada FC, Culzoni MJ, Vera-Candioti L, Siano GG, Goicoechea HC*, et al.* "Chemometric tools improving the determination of anti-inflammatory and antiepileptic drugs in river and wastewater by solid-phase microextraction and liquid chromatography diode array detection." *Journal of Chromatography A* **2009**, *1216*(29):5489-5496; doi:10.1016/j.chroma.2009.05.073.

García MDG, Culzoni MJ, De Zan MM, Valverde RS, Galera MM, and Goicoechea HC. "Solving matrix effects exploiting the second-order advantage in the resolution and determination of eight tetracycline antibiotics in effluent wastewater by modelling liquid chromatography data with multivariate curve resolution-alternating least squares and unfolded-partial least squares followed by residual bilinearization algorithms: II. Prediction and figures of merit." *Journal of Chromatography A* **2008**, *1179*(2):115-124.

Garcia S, Wade B, Bauer C, Craig C, Nakaoka K, and Lorowitz W. "The effect of wastewater treatment on antibiotic resistance in Escherichia coli and Enterococcus sp." *Water Environment Research* **2007**, *79*(12):2387-2395; doi:10.2175/106143007X183826.

Garcia T, "Pharmaceutical drugs appearing in Europe's drinking water." *Elsevier Science - News Page*, 24 March, 1998.

Garcia-Ac A, Segura PA, Gagnon C, and Sauvé S. "Determination of bezafibrate, methotrexate, cyclophosphamide, orlistat and enalapril in waste and surface waters using on-line solid-phase extraction liquid chromatography coupled to polarity-switching electrospray tandem mass spectrometry." *Journal of Environmental Monitoring* **2009**, *11*(4):830-838; doi:10.1039/b817570e.

Garcia-Ac A, Segura PA, Viglino L, Fürtös A, Gagnon C, Prévost M*, et al.* "On-line solid-phase extraction of large-volume injections coupled to liquid chromatography-tandem mass spectrometry for the quantitation and confirmation of 14 selected trace organic contaminants in drinking and surface water." *Journal of Chromatography A* **2009**, *1216*(48):8518-8527; doi:10.1016/j.chroma.2009.10.015.

García-Galán MJ, Díaz-Cruz MS, and Barceló D. "Identification and determination of metabolites and degradation products of sulfonamide antibiotics." *Trends in Analytical Chemistry* **2008**, *27*(11):1008-1022; doi:10.1016/j.trac.2008.10.001.

García-Galán MJ, Díaz-Cruz MS, and Barceló D. "Combining chemical analysis and ecotoxicity to determine environmental exposure to and to assess risk from sulfonamides." *TRAC Trends in Analytical Chemistry* **2009**, *28*(6):804-819; doi:10.1016/j.trac.2009.04.006.

García-Galán MJ, Garrido T, Fraile J, Ginebreda A, Díaz-Cruz MS, and Barceló D. "Occurrence of sulfonamide antibiotics in two groundwater bodies of Catalonia (Spain)." *Journal of Hydrology* **2009**, *In press*; doi:10.1016/j.jhydrol.2009.06.042.

García-Jares C, Llompart M, Polo M, Salgado C, Macías S, and Cela R. "Optimisation of a solid-phase microextraction methon for synthetic musk compounds in water." *Journal of Chromatography A* **2002**, *963*(1-2):277-285; doi:10.1016/S0021-9673(02)00649-0.

Garcia-Prieto A, Lunar L, Rubio S, and Perez-Bendito D. "Hemimicelle-based solid-phase extraction of estrogens from environmental water samples." *Analytical and Bioanalytical Chemistry* **2006**, *131*(3):407-414; doi:10.1039/b514100a.

Garcia-Reyero N, Adelman I, Liu L, and Denslow N. "Gene expression profiles of Fathead minnows exposed to surface waters above and below a sewage treatment plant in Minnesota." *Marine Environmental Research* **2008**, *66*(1):134-136; doi:10.1016/j.marenvres.2008.02.073.

Garcia-Reyero N, Adelman I, Martinovic D, Liu L, and Denslow N. "Site-specific impacts on gene expression and behavior in fathead minnows (Pimephales promelas) exposed in situ to streams adjacent to sewage treatment plants." *BMC Bioinformatics* **2009**, *10*(Suppl 11):S11; doi:10.1186/1471-2105-10-S11-S11.

Garcia-Reyero N, Kroll K, Liu L, Orlando E, Watanabe K, Sepulveda M*, et al.* "Gene expression responses in male fathead minnows exposed to binary mixtures of an estrogen and antiestrogen." *BMC Genomics* **2009**, *10*(1):308; doi:10.1186/1471-2164-10-308.

Garcia-Reyero N, Villeneuve DL, Kroll KJ, Liu L, Orlando EF, Watanabe KH*, et al.* "Expression Signatures for a Model Androgen and Antiandrogen in the Fathead Minnow (Pimephales promelas) Ovary." *Environmental Science & Technology* **2009**, *43*(7):2614-2619; doi:10.1021/es8024484.

Gardea-Torresdey JL, Parsons JG, Gomez E, Peralta-Videa J, Troiani HE, Santiago P*, et al.* "Formation and Growth of Au Nanoparticles inside Live Alfalfa Plants." *Nano Letters* **2002**, *2*(4):397-401; doi:10.1021/nl015673+.

Gardinali PR and Zhao X. "Trace determination of caffeine in surface water samples by liquid chromatography-atmospheric pressure chemical ionization-mass spectrometry (LC-APCI-MS)." *Environment International* **2002**, *28*(6):521-528; doi:10.1016/S0160-

4120(02)00080-6.

Gardner G. "Illegal Drug Laboratories: A Growing Health and Toxic Waste Problem." *Pace Environmental Law Review* **1989**, *7*:193-212.

Gardner S. "EU Commission Calls for Information On Use of Nanoparticles in Cosmetics." BNA, Inc. Daily Environment, 16 September, 2008, A-7 pp; *http://ec.europa.eu/enterprise/cosmetics/html/cosm_ongoing_init.htm*.

Gardner T, Yeates C, and Shaw R, Eds., "Purified recycled water for drinking: The technical issues." Queensland Water Commission, Brisbane, Australia, 2008, 273 pp; http://www.qwc.qld.gov.au/myfiles/uploads/purified%20recycled%20water/technical%20issues/PRW%20for%20drinking%20-%20the%20technical%20issues.pdf.

Garey KW, Johle ML, Behrman K, and Neuhauser MM. "Economic Consequences of Unused Medications in Houston, Texas." *Annals of Pharmacotherapy* **2004**, *38*(7):1165-1168; doi:10.1345/aph.1D619.

Garfield E, Paris SW, and Stock WG. "HistCite™: A software tool for informetric analysis of citation linkage." *Information Wissenschaft und Praxis* **2006**, *57*(8):391-400.

Garric J, Ferrari B, Fraysse B, Mons R, and Vollat B. "Impact de médicaments à usage humain sur les organisms aquatiques d'eau douce." *Environment Risques et Santé* **2006**, *5*(4):290-295.

Garric J, Ferrari B, Fraysse B, Mons R, and Vollat B. "Effects of some human pharmaceuticals on freshwater organisms." *Environment, Risques & Sante* **2006**, *5*(4):290-295.

Garric J, Vollat B, Duis K, Péry A, Junker T, Ramil M*, et al.* "Effects of the parasiticide ivermectin on the cladoceran Daphnia magna and the green alga Pseudokirchneriella subcapitata." *Chemosphere* **2007**, *69*(6):903-910; doi:10.1016/j.chemosphere.2007.05.070.

Garrido EM, Garrido J, Calheiros R, Marques MPM, and Borges F. "Fluoxetine and Norfluoxetine Revisited: New Insights into the Electrochemical and Spectroscopic Properties." *The Journal of Physical Chemistry A* **2009**, *113*(36):9934-9944; doi:10.1021/jp904306b.

Garrido JA, Brillas E, Cabot PL, Centellas F, Arias C, and Rodríguez M. "Mineralization of Drugs in Aqueous Medium by Advanced Oxidation Processes." *Portugaliae Electrochimica Acta* **2007**, *25*(1):19-41.

Garrison AW, Pope JD, and Allen FR. "GC/MS Analysis of Organic Compounds in Domestic Wastewaters." in *Identification and Analysis of Organic Pollutants in Water*, Keith CH, Ed., Ann Arbor Science Publishers; Ann Arbor, MI, 1976, pp 517-556.

Garrison AW, Pope JD, and Allen FR. "Identification and analysis of organic pollutants in water." Ann Arbor, MI, Ann Arbor Science Publishers Inc., 1976, 718 pp.

Garrison VH, Shinn EA, Foreman WT, Griffin DW, Holmes CW, Kellogg CA*, et al.* "African and Asian dust: From desert soils to coral reefs." *Bioscience* **2003**, *53*(50):469-480.

Garske LA, Beatson SA, Leech AJ, Walsh SL, and Bell SC. "Sub-inhibitory concentrations of ceftazidime and tobramycin reduce the quorum sensing signals of Pseudomonas aeruginosa " *Pathology* **2004**, *36*(6):571-575; doi:10.1080/00313020400011300.

Gartiser S, Urich E, Alexy R, and Kümmerer K. "Ultimate biodegradation and elimination of antibiotics in inherent tests." *Chemosphere* **2007**, *67*(3):604-613; doi:10.1016/j.chemosphere.2006.08.038.

Gartiser S, Urich E, Alexy R, and Kümmerer K. "Anaerobic inhibition and biodegradation of antibiotics in ISO test schemes." *Chemosphere* **2007**, *66*(10):1839-1848.

Garvin C. 2009, "Statement of Cheri Garvin CEO, Leesburg Pharmacy, on Behalf of the National Community Pharmacists Association, Submitted to United States House of Representatives, Committee on the Judiciary, Subcommitee on Crime, Terrorism, and Homeland Security, at a Hearing on Secure and Responsible Drug Disposal." Leesburg Pharmacy, National Community Pharmacists Association, 5 pp; http://www.ncpanet.org/pdf/leg/securedrugdisposaltestimony.pdf.

Gaskell PN. "Variation in the bioaccumulation of a sediment-sorbed hydrophobic compound by benthic macroinvertebrates: paterns and mechanisms." *Environmental Science & Technology* **2007**, *41*(5):1783-1789; doi:10.1021/es061934b.

Gatermann R, Biselli S, Hühnerfuss H, Rimkus GG, Franke S, Hecker M*, et al.* "Synthetic Musks in the Environment. Part 2:

Enantioselective Transformation of the Polycyclic Musk Fragrances HHCB, AHTN, AHDI, and ATII in Freshwater Fish." *Archives of Environmental Contamination and Toxicology* **2002**, *42*(4):447-453; doi:10.1007/s00244-001-0042-1.

Gatermann R, Biselli S, Hühnerfuss H, Rimkus GG, Hecker M, and Karbe L. "Synthetic Musks in the Environment. Part 1: Species-Dependent Bioaccumulation of Polycyclic and Nitro Musk Fragrances in Freshwater Fish and Mussels." *Archives of Environmental Contamination and Toxicology* **2002**, *42*(4):437-446; doi:10.1007/s00244-001-0041-2.

Gatermann R, Hellou J, Huhnerfuss H, Rimkus G, and Zitko V. "Polycyclic and nitro musks in the environment: A comparison between Canadian and European aquatic biota." *Chemosphere* **1999**, *38*(14):3431-3441; doi:10.1016/S0045-6535(98)00564-5.

Gatermann R, Huhnerfuss H, Rimkus G, Attar A, and Kettrup A. "Occurrence of musk xylene and musk ketone metabolites in the aquatic environment." *Chemosphere* **1998**, *36*(11):2535-2547.

Gatermann R, Huhnerfuss H, Rimkus G, Wolf M, and Franke S. "The distribution of nitrobenzene and other nitroaromatic compounds in the North Sea." *Marine Pollution Bulletin* **1995**, *30*(3):221-227; doi:10.1016/0025-326X(94)00161-2.

Gates ZR. "COMMENT: Obeying the "Speed" Limit: Framing the Appropriate Role of EPA Criminal Enforcement Actions against Clandestine Drug Laboratory Operators." *Penn State Environmental Law Review* **2005**, *13*:173.

Gatidou G, Thomaidis NS, Stasinakis AS, and Lekkas TD. "Simultaneous determination of the endocrine disrupting compounds nonylphenol, nonylphenol ethoxylates, triclosan and bisphenol A in wastewater and sewage sludge by gas chromatography-mass spectrometry." *Journal of Chromatography A* **2007**, *1138*(1-2):32-41; doi:10.1016/j.chroma.2006.10.037.

Gatti R, Gioia MG, Di Pietra AM, and Cavrini V. "HPLC-fluorescence determination of unconjugated estrogens in pharmaceuticals." *Journal of Pharmaceutical and Biomedical Analysis* **1998**, *18*(1-2):187-192; doi:10.1016/S0731-7085(98)00149-6.

Gatti R, Gotti R, Gioia MG, and Cavrini V. "HPLC analysis of pharmaceutical estrogens in raw materials and dosage forms." *Journal of Pharmaceutical and Biomedical Analysis* **1998**, *17*(2):337-347; doi:10.1016/S0731-7085(97)00207-0.

Gaulke LS, Strand SE, Kalhorn TF, and Stensel HD. "17α-ethinylestradiol Transformation via Abiotic Nitration in the Presence of Ammonia Oxidizing Bacteria." *Environmental Science & Technology* **2008**, *42*(20):7622-7627; doi:10.1021/es801503u.

Gaulke LS, Strand SE, Kalhorn TF, and Stensel HD. "Estrogen Biodegradation Kinetics and Estrogenic Activity Reduction for Two Biological Wastewater Treatment Methods." *Environmental Science & Technology* **2009**, *43*(18):7111-7116; doi:10.1021/es901194c.

Gautam AK, Kumar S, and Sabumon PC. "Preliminary study of physico-chemical treatment options for hospital wastewater." *Journal of Environment Management* **2007**, *83*(3):298-306; doi:10.1016/j.jenvman.2006.03.009.

Gavalchin J and Katz SE. "The persistence of fecal-borne antibiotics in soil." *Journal of AOAC International* **1994**, *77*:481-485.

Gaworecki KM. "Changes in brain biochemistry and feeding behvior in hybrid striped bass exposed to environmental contaminants." Doctoral Dissertation, Clemson University, Clemson, South Carolina, 2008. 127 pp.

Gaworecki KM and Klaine SJ. "Behavioral and biochemical responses of hybrid striped bass during and after fluoxetine exposure." *Aquatic Toxicology* **2008**, *88*(4):207-213; doi:10.1016/j.aquatox.2008.04.011.

Ge L, Chen J, Qiao X, Lin J, and Cai X. "Light-Source-Dependent Effects of Main Water Constituents on Photodegradation of Phenicol Antibiotics: Mechanism and Kinetics." *Environmental Science & Technology* **2009**, *43*(9):3101-3107; doi:10.1021/es8031727.

Gebhardt W and Schroder HF. "Liquid chromatography-(tandem) mass spectrometry for the follow-up of the elimination of persistent pharmaceuticals during wastewater treatment applying biological wastewater treatment and advanced oxidation." *Journal of Chromatography A* **2007**, *1160*(1-2):34-43; doi:10.1016/j.chroma.2007.05.075.

Gebhart F. "Agencies flush original strategies in favor of promoting drug take-back programs." *Drug Topics* **2008**, *152*(9):25.

Gebhart F. "Pharmacy edges toward medication returns." *Drug Topics* **2008**, *152*(4):25.

Gebhart F. "Waste not, want not." *Drug Topics* **2008**, *152*(10):59-60.

Gebhart F. "Controlled substance disposal a growing problem for hospitals." *Drug Topics* **2008**, *152*(13):H1.

Gebhart F. "Green pharmacy pilot program goes national." *Drug Topics* **2009**, *153*(3):H1.

Gebhart F. "FDA outlines new Rx labeling." *Drug Topics* **2009**, *153*(4):H8.

Gebreyes WA, Bahnson PB, Funk JA, McKean J, and Patchanee P. "Seroprevalence of Trichinella, Toxoplasma, and Salmonella in Antimicrobial-Free and Conventional Swine Production Systems." *Foodborne Pathogens and Disease* **2008**, *5*(2):199-203; doi:10.1089/fpd.2007.0071.

Gee D. "Late lessons from early warnings: the precautionary principle 1896-200." in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 9, pp 126 -138; http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Geens T, Roosens L, Neels H, and Covaci A. "Assessment of human exposure to Bisphenol-A, Triclosan and Tetrabromobisphenol-A through indoor dust intake in Belgium." *Chemosphere* **2009**, *76*(6):755-760; doi:10.1016/j.chemosphere.2009.05.024.

Geiselman B, "Hospitals adapt to changing field." *Waste & Recycling News*, 2002, 10 June: http://www.wastenews.com, http://www.wasterecyclingnews.com/arcsearch.html.

Geiselman B, "A prescription for headaches." *Waste & Recycling News*, 2002, 10 June: http://www.wasterecyclingnews.com/arcshow.html?id=02061001401&query1=health+care&bool=AND&query2=headaches&maxfiles=10&start=0&fromm=&fromy=2002&tom=&toy=2002.

Geiszinger A, Bonnineau C, Faggiano L, Guasch H, López-Doval JC, Proia L*, et al.* "The relevance of the community approach linking chemical and biological analyses in pollution assessment." *TRAC Trends in Analytical Chemistry* **2009**, *28*(5):619-626; doi:10.1016/j.trac.2009.02.012.

Gelsleichter J. "Project profile: Exposure Of Freshwater Sharks To Human Pharmaceuticals. Evaluating the risks that pharmaceutical-related pollutants pose to Caloosahatchee River wildlife: Observations on the bull shark, Carcharhinus leucas. In Final Report: Charlotte Harbor National Eatuary Program." Mote Marine Laboratory, CAC 2-18-09, Sarasota, FL, January, 2009, 18 pp; http://www.chnep.org/NEP/agendas-2009/CAC/CAC2-18-09_3c_pharmaceuticals.pdf.

Gelsleichter J. "Slide Presentation by Dr. James Gelsleichter on occurrence of various drug active ingredients in Bull Sharks." 2009; http://www.chnep.org/Events/Summit08/presentations/Gelsleichter.ppt.

Gentile JH. "Hormesis in ecology and ecological assessments." *Human and Ecological Risk Assessment* **2000**, *6*(2):223-226; doi:10.1080/10807030009380057.

Gentile JH and van der Schalie WH. "Hormesis and ecological risk assessment: fact or fantasy?" *Human and Ecological Risk Assessment* **2000**, *6*(2):227-236; doi:10.1080/10807030009380058.

Gentili A. "Determination of non-steroidal anti-inflammatory drugs in environmental samples by chromatographic and electrophoretic techniques." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1185-1202; doi:10.1007/s00216-006-0821-7.

Gentili A. "LC-MS methods for analyzing anti-inflammatory drugs in animal-food products." *Trends in Analytical Chemistry* **2007**, *26*(6):595-608.

Gentili A, Marchese S, and Perret D. "MS techniques for analyzing phenols, their metabolites and transformation products of environmental interest." *TRAC Trends in Analytical Chemistry* **2008**, *27*(10):888-903; doi:10.1016/j.trac.2008.07.008.

Gentili A, Perret D, and Marchese S. "Liquid chromatography-tandem mass spectrometry for performing confirmatory analysis of veterinary drugs in animal-food products." *Trends in Analytical Chemistry* **2005**, *24*(7):704-733; doi:10.1016/j.trac.2005.02.007.

Gentili A, Perret D, Marchese S, Mastropasqua R, Curini R, and Di Corcia A. "Analysis of free estrogens and their conjugates in sewage and river waters by solid-phase extraction then liquid chromatography-electrospray-tandem mass spectrometry." *Chromatographia* **2002**, *56*(1-2):25-32; doi:10.1007/BF02490242.

Genuis SJ. "The chemical erosion of human health: adverse environmental exposure and in-utero pollution determinants of congenital disorders and chronic disease." *Journal of Perinatal Medicine* **2006**, *34*(3):185-195; doi:10.1515/JPM.2006.033.

Genuis SJ. "The chemical erosion of human health: adverse environmental exposure and in-utero pollution â€“ determinants of congenital disorders and chronic disease." *Journal of Perinatal Medicine* **2006**, *34*(3):185-195; doi:10.1515/jpm.2006.033.

Georga KA, Samanidou VF, and Papadoyannis IN. "Use of novel solid-phase extraction sorbent materials for high-performance liquid chromatography quantitation of caffeine metabolism products methylxanthines and methyluric acids in samples of biological origin." *Journal of Chromatography B: Biomedical Sciences and Applications* **2001**, *759*(2):209-218; doi:10.1016/S0378-4347(01)00251-1.

Gerlach C. "International research targets endocrine-disrupting compounds." *Today's Chemist* **1998**:67-72.

Gerrity D, Stanford BD, Trenholm RA, and Snyder SA. "An Evaluation of a Pilot-Scale Nonthermal Plasma Advanced Oxidation Process for Trace Organic Compound Degradation." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.09.029.

Geurts MGJ, de Boer W, de Graaf JS, and van Ginkel CG. "Environmental exposure assessment of ethinyl estradiol (EE) from a combined hormonal vaginal contraceptive ring after disposal; leaching from landfills." *Science of the Total Environment* **2007**, *377*(2-3):366-370.

Geyer HJ, Rimkus G, Wolf M, Attar A, Steinberg C, and Kettrup A. "Synthetische Nitromoschus-Duftstoffe and Bromocyclen - neue Umweltchemikalien in Fischen und Muscheln bzw. Muttermilch und Humanfett (Synthetic nitro musk fragrances and bromocyclen - new environmental chemicals in fish and mussels as well as in breast milk and human lipids)." *Umweltwissenschaften und Schadstoff-Forschung* **1994**, *6*(1):9-17; doi:10.1007/BF02937120.

Geyer HJ, Rimkus GG, Scheunert I, Kaune A, Schramm K-W, Kettrup A*, et al.* "Bioaccumulation and Occurrence of Endocrine-Disrupting Chemicals (EDCs), Persistent Organic Pollutants (POPs), and Other Organic Compounds in Fish and Other Organisms Including Humans." *The Handbook of Environmental Chemistry, Bioaccumulation - New Aspects and Developments* **2000**, *2, Part J*:1-166.

Ghauch A, Tuqan A, and Assi HA. "Antibiotic removal from water: Elimination of amoxicillin and ampicillin by microscale and nanoscale iron particles." *Environmental Pollution* **2009**, *157*(5):1626-1635; doi:10.1016/j.envpol.2008.12.024.

Gheorghe A, van Nuijs A, Pecceu B, Bervoets L, Jorens PG, Blust R*, et al.* "Analysis of cocaine and its principal metabolites in waste and surface water using solid-phase extraction and liquid chromatography-ion trap tandem mass spectrometry." *Analytical and Bioanalytical Chemistry* **2008**, *391*(4):1309-1319; doi:10.1007/s00216-007-1754-5.

Ghiselli G and Jardim WF. "Interferentes endocrinos no ambiente [Endocrine disruptors in the environment]." *Quimica Nova* **2007**, *30*(3):695-706; doi:0100-4042.

Ghoneim EM, El-Desoky HS, and Ghoneim MM. "Adsorptive cathodic stripping voltammetric assay of the estrogen drug ethinylestradiol in pharmaceutical formulation and human plasma at a mercury electrode." *Journal of Pharmaceutical and Biomedical Analysis* **2006**, *40*(2):255-261; doi:10.1016/j.jpba.2005.07.024.

Ghosh D. "Université de Montréal Develops Methods for Detecting Pharmaceuticals Products in Water." *Water & Wastewater International* **2008**, *22*(4):18-19.

Ghosh D, Griswold J, Erman M, and Pangborn W. "Structural basis for androgen specificity and oestrogen synthesis in human aromatase." *Nature* **2009**, *457*(7226):219-223; doi:10.1038/nature07614.

Ghosh GC. "Behavior of antibiotics and antiviral drugs in sewage treatment plants and risk associated with their widespread use under pandemic condition." Doctoral Dissertation, Kyoto University, Kyoto, Japan, 2009. http://en.scientificcommons.org/51968949, http://repository.kulib.kyoto-u.ac.jp/dspace/handle/2433/85391.

Ghosh GC, Nakada N, Yamashita N, and Tanaka H. "Oseltamivir Carboxylate – the Active Metabolite of Oseltamivir Phosphate (Tamiflu), Detected in Sewage Discharge and River Water in Japan." *Environmental Health Perspectives* **2009**, *In press*; doi:10.1289/ehp.0900930.

Ghosh GC, Okuda T, Yamashita N, and Tanaka H. "Occurrence and elimination of antibiotics at four sewage treatment plants in Japan and their effects on bacterial ammonia oxidation." *Water Science and Technology* **2009**, *59*(4):779-789.

Ghosh S and LaPara TM. "The effects of subtherapeutic antibiotic use in farm animals on the proliferation and persistence of antibiotic resistance among soil bacteria." *The International Society for Microbial Ecology Journal* **2007**, *1*(3):191-203.

Giacomini KM, Krauss RM, Roden DM, Eichelbaum M, Hayden MR, and Nakamura Y. "When good drugs go bad." *Nature* **2007**, *446*(7139):975-977.

Giardino VG and Guglielmetti JL. "Long-Term Performance of a Hazardous Waste Landfill." *Geotextiles Geomembranes* **1997**,

15(406):255-267; doi:10.1016/S0266-1144(97)10008-5.

Gibbs SG, Green CF, Tarwater PM, Mota LC, Mena KD, and Scarpino PV. "Isolation of antibiotic-resistant bacteria from the air plume downwind of a swine confined or concentrated animal feeding operation." *Environmental Health Perspectives* **2006**, *114*(7):1032-1037; doi:10.1289/ehp.8910.

Gibotti A, Saridakis HO, Pelayo JS, Tagliari KC, and Falcao DP. "Prevalence and virulence properties of Vibrio cholerae non-O1, Aeromonas spp. and Plesiomonas shigelloides isolated from Cambe Stream (State of Parana, Brazil)." *Journal of Applied Microbiology* **2000**, *89*(1):70-75; doi:10.1046/j.1365-2672.2000.01077.x.

Gibs J, Stackelberg PE, Furlong ET, Meyer M, Zaugg SD, and Lippincott RL. "Persistence of pharmaceuticals and other organic compounds in chlorinated drinking water as a function of time." *Science of the Total Environment* **2007**, *373*(1):240-249; doi:10.1016/j.scitotenv.2006.11.003.

Gibson R, Becerril-Bravo E, Silva-Castro V, and Jimenez B. "Determination of acidic pharmaceuticals and potential endocrine disrupting compounds in wastewaters and spring waters by selective elution and analysis by gas chromatography-mass spectrometry." *Journal of Chromatography A* **2007**, *1169*(1-2):31-39.

Gibson R, Smith MD, Spary CJ, Tyler CR, and Hill EM. "Mixtures of estrogenic contaminants in bile of fish exposed to wastewater treatment works effluents." *Environmental Science & Technology* **2005**, *39*(8):2461-2471; doi:10.1021/es048892g.

Gibson R, Tyler CR, and Hill EM. "Analytical methodology for the identification of estrogenic contaminants in fish bile." *Journal of Chromatography A* **2005**, *1066*(1-2):33-40; doi:10.1016/j.chroma.2005.01.045.

Gielen GJHP. "The fate and effects of sewage-derived pharmaceuticals in soil." Doctoral Dissertation, University of Canterbury, Christchurch, New Zealand, 2007. 192 pp; http://digital-library.canterbury.ac.nz/data/collection3/etd/adt-NZCU20071009.112712/02whole.pdf.

Gielen GJHP, Heuvel MRvd, Clinton PW, and Greenfield LG. "Factors impacting on pharmaceutical leaching following sewage application to land." *Chemosphere* **2009**, *74*(4):537-542; doi:10.1016/j.chemosphere.2008.09.048.

Gies A. "Government view of endocrine disruption in wildlife." *Pure and Applied Chemistry* **2003**, *75*(11-12):2563-2574.

Giese C, Miethe N, and Schlenker G. "Biodegradation of estrogens in stream water." *Berliner und Munchener Tierarztliche Wochenschrift* **2007**, *120*(3-4):141-147.

Giesy JP, Snyder EM, Nichols KM, Snyder SA, Villalobos SA, Jones PD*, et al.* "Examination of reproductive endpoints in goldfish (Carassius auratus) exposed in situ to municipal sewage treatment plant effluent discharges in Michigan, USA." *Environmental Toxicology and Chemistry* **2003**, *22*(10):2416-2431; doi:10.1897/02-329.

Giger W. "Focal Point: Environmental Analytical Chemistry: Emerging Contaminants and Water Analysis." *CHIMIA International Journal for Chemistry* **2003**, *57*(1-2):22-34.

Giger W. "Hydrophilic and amphiphilic water pollutants: using advanced analytical methods for classic and emerging contaminants." *Analytical and Bioanalytical Chemistry* **2009**, *393*(1):37-44; doi:10.1007/s00216-008-2481-2.

Giger W, Alder A, and Kohler H-P. "Occurrence of human-use antibiotics and antibiotic resistance in the aquatic environment (HUMABRA)." 9 pp; http://www.nrp49.ch/upload/docs/Dokumente/Project_Giger.pdf.

Giger W, Alder AC, Golet EM, Kohler H-P, McArdell CS, Molnar E*, et al.* "Antibiotikaspuren auf dem Weg von Spital- und Gemeindeabwasser in die Fliessgewässer: Umweltanalytische Untersuchungen über Einträge und Verhalten [Traces of antibiotics from hospital and municipal wastewaters into rivers: Analytical studies on inputs and behaviour]." in *Spurenstoffe in Gewassern: Pharmazeutische Reststoffe Und Endokrin Wirksame Substanzen [Trace substances in the aquatic environment: Pharmaceutical residues and endocrine disrupting chemicals]*, Track T and Kreysa G, Eds., Wiley-VCH; 2003, pp 21-33; http://books.google.com/books?hl=en&lr=&id=ngoAgrzw_iIC&oi=fnd&pg=PA21&dq=daughton+sewage&ots=Q66oJoHts-&sig=4igYqruXI2aWa_rfEbf8uuQj52c#v=onepage&q=daughton%20sewage&f=false.

Giger W, Alder AC, Golet EM, Kohler HPE, McArdell CS, Molnar E*, et al.* "Occurrence and fate of antibiotics as trace contaminants in wastewaters, sewage sludges, and surface waters." *Chimia* **2003**, *57*(9):485-491.

Giger W, Schaffner C, and Kohler HPE. "Benzotriazole and Tolyltriazole as Aquatic Contaminants. 1. Input and Occurrence in Rivers and Lakes." *Environmental Science & Technology* **2006**, *40*(23):7186-7192.

Gikas E, Kormali P, Tsipi D, and Tsarbopoulos A. "Development of a rapid and sensitive SPE-LC-ESI MS/MS method for the determination of chloramphenicol in seafood." *Journal of Agricultural and Food Chemistry* **2004**, *52*(5):1025-1030; doi:10.1021/jf030485l.

Gilbert N. "Fees delay pharmed drug: European trial of 'pharmed' anti-HIV monoclonal delayed by costly regulatory process." *Nature* **2009**, *458*:951; doi:10.1038/458951a.

Gilbert P and McBain A, J,. "Potential impact of increased use of biocides in consumer products on prevalence of antibiotic resistance." *Clinical Microbiology Reviews* **2003**, *16*(2):189-208; doi:10.1128/CMR.16.2.189-208.2003.

Gilbert-Lopez B, Llorent-Martinez EJ, Ortega-Barrales P, and Molina-Diaz A. "Development of a multicommuted flow-through optosensor for the determination of a ternary pharmaceutical mixture." *Journal of Pharmaceutical and Biomedical Analysis* **2007**, *43*(2):515-521; doi:10.1016/j.jpba.2006.08.003.

Gilbertson TJ, Hornish RE, Jaglan PS, Koshy KT, Nappier JL, Stahl GL*, et al.* "Environmental fate of ceftiofur sodium, a cephalosporin antibiotic. Role of animal excreta in its decomposition." *Journal of Agricultural and Food Chemistry* **1990**, *38*(3):890-894.

Gilchrist MJ, Greko C, Wallinga DB, Beran GW, Riley DG, and Thorne PS. "The potential role of concentrated animal feeding operations in infectious disease epidemics and antibiotic resistance." *Environmental Health Perspectives* **2007**, *115*(2):313-316; doi:10.1289/ehp.8837.

Giles J. "Tamper-proof prescription drugs may halt abuse." *New Scientist* **2008**, *29 June*(2662):8-9.

Gillerman RG and Browning RA. "Drug Use Inefficiency: A Hidden Source of Wasted Health Care Dollars." *Anesthesia and Analgesia* **2000**, *91*(4):921-924.

Gillibrand K. 2009, "Key Senate Panel Passes Gillibrand Amendment to Investigate Trace Amounts of Pharmaceuticals Found in New York Water." 2 pp; http://gillibrand.senate.gov/newsroom/press/release/?id=A19EF6CC-59E9-4EC1-994D-86AE56F1628E.

Gillies H. "A responsible attitude to waste disposal." *In Practice* **2001**, *23*(1):53-54.

Gilpin RK and Gilpin CS. "Pharmaceuticals and Related Drugs." *Analytical Chemistry* **2009**, *81*(12):4679-4694; doi:10.1021/ac900804d.

Giltrow E, Eccles PD, Winter MJ, McCormack PJ, Rand-Weaver M, Hutchinson TH*, et al.* "Chronic Effects Assessment and Plasma Concentrations of the β-blocker Propranolol in Fathead Minnows (Pimephales promelas)." *Aquatic Toxicology* **2009**, *95*(3):195-202; doi:10.1016/j.aquatox.2009.09.002.

Ginebreda A, Muñoz I, de Alda ML, Brix R, López-Doval J, and Barceló D. "Environmental risk assessment of pharmaceuticals in rivers: Relationships between hazard indexes and aquatic macroinvertebrate diversity indexes in the Llobregat River (NE Spain)." *Environment International* **2009**, *In Press*; doi:10.1016/j.envint.2009.10.003.

Gingerich BS. "Disposal of Unused Medications." *Home Health Care Management & Practice* **2007**, *20*(1):80-81; doi:10.1177/1084822307305062.

Ginsburg I. "The disregard syndrome: A menace to honest science?" *The Scientist* **2001**, (10 December):51.

Giokas DL, Sakkas VA, and Albanis TA. "Determination of residues of UV filters in natural waters by solid-phase extraction coupled to liquid chromatography-photodiode array detection and gas chromatography-mass spectrometry." *Journal of Chromatography A* **2004**, *1026*(1-2):289-293; doi:10.1016/j.chroma.2003.10.114.

Giokas DL, Sakkas VA, and Albanis TA. "Erratum to "Determination of residues of UV filters in natural waters by solid-phase extraction coupled to liquid chromatography-photodiode array detection and gas chromatography-mass spectrometry" [J. Chromatogr. A 1026 (2004) 289-293]." *Journal of Chromatography A* **2005**, *1068*(2):339; doi:10.1016/j.chroma.2005.01.051.

Giokas DL, Sakkas VA, Albanis TA, and Lampropoulou DA. "Determination of UV-filter residues in bathing waters by liquid chromatography UV-diode array and gas chromatography-mass spectrometry after micelle mediated extraction-solvent back extraction." *Journal of Chromatography A* **2005**, *1077*(1):19-27; doi:10.1016/j.chroma.2005.04.074.

Giokas DL, Salvador A, and Chisvert A. "UV filters: From sunscreens to human body and the environment." *Trends in Analytical*

Chemistry **2007**, *26*(5):360-374; doi:10.1016/j.trac.2007.02.012.

Girardi C and Odore R. "Pharmacological treatments and risks for the food chain." *Veterinary Research Communications* **2008**, *32*(1):11-18; doi:10.1007/s11259-008-9083-5.

Giraud E, Blanc G, Bouju-Albert A, Weill F-X, and Donnay-Moreno C. "Mechanism of quinolone resistance and clonal relationship among Aeromonas salmonicida strains isolated from reared fish with furunculosis." *Journal of Medical Microbiology* **2004**, *53*(9):895-901.

Giraud E, Douet DG, Le Bris H, Bouju-Albert A, Donnay-Moreno C, Thorin C*, et al.* "Survey of antibiotic resistance in an integrated marine aquaculture system under oxolinic acid treatment." *FEMS Microbiology Ecology* **2006**, *55*(3):439-448; doi:10.1111/j.1574-6941.2005.00036.x.

Girones R. "Tracking viruses that contaminate environments." *Microbe* **2006**, *1*(1):19-24.

Gittleson K. 2009, "Your Money Is Covered With Cocaine: Can our tainted bills be used to track drug use?" Slate, 3 pp; http://www.slate.com/id/2225893/.

Giuliani F, Koller T, Wurgler FE, and R.M. W. "Detection of genotoxic activity in native hospital waste water by the umuC test." *Mutation Research/Genetic Toxicology and Environmental Mutagenesis* **1996**, *368*(1):49-57; doi:10.1016/S0165-1218(96)90039-7.

Glaser A. "The ubiquitous triclosan: a common antibacterial agent exposed." *Pesticides and You* **2004**, *24*(3):12-17.

Glassmeyer ST, Furlong ET, Kolpin DW, Cahill JD, Zaugg SD, Werner SL*, et al.* "Transport of Chemical and Microbial Compounds from Known Wastewater Discharges: Potential for Use as Indicators of Human Fecal Contamination." *Environmental Science & Technology* **2005**, *39*(14):5157-5169.

Glassmeyer ST, Hinchey EK, Boehme SE, Daughton CG, Ruhoy IS, Conerly O*, et al.* "Disposal practices for unwanted residential medications in the United States." *Environment International* **2009**, *35*(3):566-572; doi:10.1016/j.envint.2008.10.007.

Glassmeyer ST, Kolpin DW, Furlong ET, and Focazio MJ. "Environmental Presence and Persistence of Pharmaceuticals-- An Overview." in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press, Taylor and Francis Books; 2008, Chapter 1, pp 3-51; http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Treatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#v=onepage&q=&f=false.

Glassmeyer ST and Shoemaker JA. "Effects of chlorination on the persistence of pharmaceuticals in the environment." *Bulletin of Environmental Contamination and Toxicology* **2005**, *74*(1):24-31; doi:10.1007/s00128-004-0543-5.

GlaxoSmithKline. "Global Public Policy Issues: GlaxoSmithKline's Position - Pharmaceuticals in the Environment." January, 2006, 7 pp; http://www.gsk.com/policies/GSK-on-pharmaceuticals-in-environment.pdf.

Gleick PH, Cooley H, Cohen MJ, Morikawa M, Morrison J, and Palaniappan M. "The World's Water 2008-2009: The biennial report on freshwater resources." Washington • Covelo • London, Island Press, 2009, 372 pp; http://www.worldwater.org/data.html.

Glick D. "Drugs in tap water: How significant is the risk?" *Official* **2008**, *May/June*:41-43.

Gobas FAPC and Morrison HA. "Bioconcentration and biomagnification in the aquatic environment." in *Handbook of Property Estimation Methods for Chemicals*, Mackay D and Boethling RS, Eds., CRC Press; 2000, pp 189-231.

Gobel A. "Occurrence and fate of sulfonamide and macrolide antimicrobials in wastewater treatment." Doctoral Dissertation, Eidgenoessische Technische Hochschule Zuerich, Switzerland, 2004. 163 pp.

Gobel A, McArdell CS, Joss A, Siegrist H, and Giger W. "Fate of sulfonamides, macrolides, and trimethoprim in different wastewater treatment technologies." *Science of the Total Environment* **2007**, *372*(2-3):361-371; doi:10.1016/j.scitotenv.2006.07.039.

Göbel A, McArdell CS, Suter MJF, and Giger W. "Trace Determination of Macrolide and Sulfonamide Antimicrobials, a Human Sulfonamide Metabolite, and Trimethoprim in Wastewater Using Liquid Chromatography Coupled to Electrospray Tandem Mass Spectrometry." *Analytical Chemistry* **2004**, *76*(16):4756-4764; doi:10.1021/ac0496603.

Gobel A, Thomsen A, McArdell CS, Alder AC, Giger W, Thei N*, et al.* "Extraction and determination of sulfonamides, macrolides,

and trimethoprim in sewage sludge." *Journal of Chromatography A* **2005**, *1085*(2):179-189; doi:10.1016/j.chroma.2005.05.051.

Gobel A, Thomsen A, McArdell CS, Joss A, and Giger W. "Occurrence and sorption behavior of sulfonamides, macrolides, and trimethoprim in activated sludge treatment." *Environmental Science & Technology* **2005**, *39*(11):3981-3989.

Gober B, Lathrop S, and Irvine R. "The frequency of herbal medications and supplements in a series of medical examiner scene investigations." Albuquerque, NM, 2 July, 2008, 18 pp; http://hdl.handle.net/1928/6740.

Godfrey E and Woessner WW. "Screening Level Study of Pharmaceuticals in Septic Tank Effluent and a Wastewater Treatment Plant Waste Stream." in Proceedings of the 4th International Conference on Pharmaceuticals and Endocrine Disrupting Chemicals in Water, Minneapolis, MN, 13-15 October, 2004, 296-308 pp; https://info.ngwa.org/GWOL/pdf/042380190.pdf.

Godfrey E, Woessner WW, and Benotti MJ. "Pharmaceuticals in On-Site Sewage Effluent and Ground Water, Western Montana." *Ground Water* **2007**, *45*(3):263-271; doi:10.1111/j.1745-6584.2006.00288.x.

Goehl TJ. "Reviews in Environmental Health Introduction." *Environmental Health Perspectives* **2002**, *110*(1):1-2.

Goho A. "Tricky business." *Science News* **2004**, *166*(8):122-124.

Goksøyr A, Tollefsen KE, Grung M, LØken K, Lie E, Zenker A*, et al.* "Balsa Raft Crossing the Pacific Finds Low Contaminant Levels." *Environmental Science & Technology* **2009**, *43*(13):4783-4790; doi:10.1021/es900154h.

Gold LS "The Carcinogenic Potency Database (CPDB)." 2008; http://potency.berkeley.edu/cpdb.html.

Goldburg R, Roach S, Wallinga D, and Mellon M. "The risks of pigging out on antibiotics." *Science* **2008**, *321*(5894):1294.

Golden R, Gandy J, and Vollmer G. "A review of the endocrine activity of parabens and implications for potential risks to human health." *Critical Reviews in Toxicology* **2005**, *35*(5):435-458; doi:10.1080/10408440490920104.

Golder Associates. "Final Report Disposal of Unused Medicines in Subtitle D Landfills [This reference was found to be cited in the work of others but its accuracy could not be verified]." Cherry Hill, N.J., June, 2004.

Goldgewicht C. "Évaluation du risque de cancer du poumon en relation avec l'exposition aux particules aéroportées dans quatre agglomérations fr." *Environment, Risques & Sante* **2006**, *5*(4):226.

Goldgewicht C. "Analyse spatiale de la pollution de l'air et mortalité à Los Angeles." *Environment, Risques & Sante* **2006**, *5*(4):227.

Goldgewicht C. "Silicose et cancer du poumon: méta-analyse." *Environment, Risques & Sante* **2006**, *5*(4):228.

Goldgewicht C. "Rapport d'un groupe de travail « Nitrate dans l'eau de boisson et santé » Résultats récents et besoins de recherche." *Environment, Risques & Sante* **2006**, *5*(4):230.

Goldgewicht C. "Impact de la vague de chaleur de 2003 sur la mortalité toutes causes dans 9 villes françaises." *Environment, Risques & Sante* **2006**, *5*(4):230-231.

Goldgewicht C. "Agrégats communautaires de leucémies et de lymphomes: des arguments pour une infection ?" *Environment, Risques & Sante* **2006**, *5*(4):231-232.

Goldgewicht C. "Historique de vaccination et risque de leucémie de l'enfant." *Environment, Risques & Sante* **2006**, *5*(4):233.

Goldgewicht C. "Dérivés des produits de chloration dans l'eau de boisson et risque de leucémie de l'adulte au Canada." *Environment, Risques & Sante* **2006**, *5*(4):234-235.

Goldring J. "Novel Excipients: The Next Pharmaceutical Frontier?" *American Pharmaceutical Review* **2008**, (March/April).

Goldstein BD. "NIEHS and public health practice." *Environmental Health Perspectives* **2005**, *SI*:80-89.

Golet EM, Alder AC, and Giger W. "Environmental exposure and risk assessment of fluoroquinolone antibacterial agents in wastewater and river water of the Glatt Valley Watershed, Switzerland." *Environmental Science & Technology* **2002**, *36*(17):3645-3651; doi:10.1021/es0256212.

Golet EM, Alder AC, Hartmann A, Ternes TA, and Giger W. "Trace Determination of Fluoroquinolone Antibacterial Agents in Urban

Wastewater by Solid-Phase Extraction and Liquid Chromatography with Fluorescence Detection." *Analytical Chemistry* **2001**, *73*(15):3632-3638; doi:10.1021/ac0015265.

Golet EM, Strehler A, Alder AC, and Giger W. "Determination of Fluoroquinolone Antibacterial Agents in Sewage Sludge and Sludge-Treated Soil Using Accelerated Solvent Extraction Followed by Solid-Phase Extraction." *Analytical Chemistry* **2002**, *74*(21):5455-5462; doi:10.1021/ac025762m.

Golet EM, Xifra I, Siegrist H, Alder AC, and Giger W. "Environmental exposure assessment of fluoroquinolone antibacterial agents from sewage to soil." *Environmental Science & Technology* **2003**, *37*(15):3243-3249; doi:10.1021/es0264448.

Gomes J, O'Reilly P, and Gomes J. "Workshop report: Challenges and opportunities in studying ecologic and population health impacts of endocrine toxicants." Chartered Institute of Environmental Health, Ottawa, Ontario, Canada, 2008, 9 pp; http://www.cieh.org/jehr/jehr3.aspx?id=11580.

Gomes J, Vilela CL, Bexiga R, Nunes GD, Pereira N, and Cavaco LM. "Fish antibiotherapy: bioencapsulation of flumequine using adult brine shrimp (Artemia salina)." *Aquaculture Research* **2007**, *38*(6):613-617; doi:10.1111/j.1365-2109.2007.01703.x.

Gomes R, Meredith W, Snape C, and Sephton M. "Conjugated steroids: analytical approaches and applications." *Analytical and Bioanalytical Chemistry* **2009**, *393*(2):453-458; doi:10.1007/s00216-008-2451-8.

Gomes RL, Avcioglu E, Scrimshaw MD, and Lester JN. "Steroid-estrogen determination in sediment and sewage sludge: a critique of sample preparation and chromatographic/mass spectrometry considerations, incorporating a case study in method development." *Trends in Analytical Chemistry* **2004**, *23*(10-11):737-744; doi:10.1016/j.trac.2004.08.006.

Gomes RL, Birkett JW, Scrimshaw MD, and Lester JN. "Simultaneous determination of natural and synthetic steroid estrogens and their conjugates in aqueous matrices by liquid chromatography/mass spectrometry." *International Journal of Environmental Analytical Chemistry* **2005**, *85*(1):1-14; doi:10.1080/03067310512331324745.

Gomes RL, Deacon HE, Lai KM, Birkett JW, Scrimshaw MD, and Lester JN. "An assessment of the bioaccumulation of estrone in Daphnia magna." *Environmental Toxicology and Chemistry* **2004**, *23*(1):105-108.

Gomes RL, Scrimshaw MD, and Lester JN. "Determination of endocrine disrupters in sewage treatment and receiving waters." *Trends in Analytical Chemistry* **2003**, *22*(10):697-707; doi:10.1016/S0165-9936(03)01010-0.

Gomes RL, Scrimshaw MD, and Lester JN. "Fate of Conjugated Natural and Synthetic Steroid Estrogens in Crude Sewage and Activated Sludge Batch Studies." *Environmental Science & Technology* **2009**, *43*(10):3612-3618; doi:10.1021/es801952h.

Gomez E, Fenet H, Pillon A, Rosain D, Balaguer P, and Casellas C. "Substances entrant dans la formulation de cosmétiques et perturbations endocrines [Personal care products and endocrine disruption]." *Environment, Risques & Sante* **2006**, *5*(4):275-279.

Gomez E, Pillon A, Fenet H, Rosain D, Duchesne MJ, Nicolas JC*, et al.* "Estrogenic activity of cosmetic components in reporter cell lines: Parabens, UV screens, and musks." *Journal of Toxicology and Environmental Health, Part A: Current Issues* **2005**, *68*(4):239-251; doi:10.1080/15287390590895054.

Gomez MJ, Aguera A, Mezcua M, Hurtado J, Mocholi F, and Fernandez-Alba AR. "Simultaneous analysis of neutral and acidic pharmaceuticals as well as related compounds by gas chromatography-tandem mass spectrometry in wastewater." *Talanta* **2007**, *73*(2):314-320; doi:10.1016/j.talanta.2007.03.053.

Gómez MJ, Gómez-Ramos MM, Agüera A, Mezcua M, Herrera S, and Fernández-Alba AR. "A new gas chromatography/mass spectrometry method for the simultaneous analysis of target and non-target organic contaminants in waters." *Journal of Chromatography A* **2009**, *1216*(18):4071-7082; doi:10.1016/j.chroma.2009.02.085.

Gomez MJ, Martinez Bueno MJ, Lacorte S, Fernandez-Alba AR, and Aguera A. "Pilot survey monitoring pharmaceuticals and related compounds in a sewage treatment plant located on the Mediterranean coast." *Chemosphere* **2007**, *66*(6):993-1002.

Gomez MJ, Mezcua M, Martinez MJ, Fernandez-Alba AR, and Aguera A. "A new method for monitoring oestrogens, N-octylphenol, and bisphenol A in wastewater treatment plants by solid-phase extraction-gas chromatography-tandem mass spectrometry." *International Journal of Environmental Analytical Chemistry* **2006**, *86*(1-2):3-13; doi:10.1080/03067310500247983.

Gomez MJ, Octavio M, Ferrer I, Aguera A, and Fernandez-Alba AR. "Solid-phase extraction followed by liquid chromatography-time-of-fligh-mass spectrometry to evaluate pharmaceuticals in effluents. A pilot monitoring study." *Journal of Environmental Monitoring* **2007**, *9*(7):718-729; doi:10.1039/b702844j.

Gomez MJ, Petrovic M, Fernandez-Alba AR, and Barcelo D. "Determination of pharmaceuticals of various therapeutic classes by solid-phase extraction and liquid chromatography-tandem mass spectrometry analysis in hospital effluent wastewaters." *Journal of Chromatography A* **2006**, *1114*(2):224-233; doi:10.1016/j.chroma.2006.02.038.

Gómez MJ, Sirtori C, Mezcua M, Fernández-Alba AR, and Agüera A. "Photodegradation study of three dipyrone metabolites in various water systems: Identification and toxicity of their photodegradation products." *Water Research* **2008**, *42*(10-11):2698-2706; doi:10.1016/j.watres.2008.01.022.

Gomez-Taylor Corominas B, Garcia Mateo JV, Lahuerta Zamora L, and Martinez Calatayud J. "Determination of tannic acid by direct chemiluminescence in a FIA assembly." *Talanta* **2002**, *58*(6):1243-1251; doi:10.1016/S0039-9140(02)00410-1.

Goni-Urriza M, Capdepuy M, Arpin C, Raymond N, Caumette P, and Quentin C. "Impact of an urban effluent on antibiotic resistance of riverine Enterobacteriaceae and Aeromonas spp." *Applied and Environmental Microbiology* **2000**, *66*(1):125-132.

Gonzalez de la Huebra MJ, Vincent U, Bordin G, and Rodriguez A. "Determination of macrolide antibiotics in porcine and bovine urine by high-performance liquid chromatography coupled to coulometric detection." *Analytical and Bioanalytical Chemistry* **2005**, *382*(2):433-439; doi:10.1007/s00216-004-2951-0.

Gonzalez de la Huebra MJ, Vincent U, and von Holst C. "Sample preparation strategy for the simultaneous determination of macrolide antibiotics in animal feeding stuffs by liquid chromatography with electrochemical detection (HPLC-ECD)." *Journal of Pharmaceutical and Biomedical Analysis* **2007**, *43*(5):1628-1637; doi:10.1016/j.jpba.2006.12.008.

Gonzalez H, Farbrot A, Larko O, and Wennberg A-M. "Percutaneous absorption of the sunscreen benzophenone-3 after repeated whole-body applications, with and without ultraviolet irradiation." *British Journal of Dermatology* **2006**, *152*(2):337-340; doi:10.1111/j.1365-2133.2005.07007.x.

Gonzalez J, Orero A, and Prieto J. "[Storage of antibiotics in Spanish households]." *Revista Espanola de Quimioterapia* **2006**, *19*(3):275-285.

González O, Espulgas M, Sans C, Torres A, and Espulgas S. "Performance of a Sequencing Batch Biofilm Reactor for the treatment of pre-oxidized Sulfamethoxazole solutions." *Water Research* **2009**, *43*(8):2149-2158; doi:10.1016/j.watres.2009.02.013.

González O, Sans C, and Esplugas S. "Sulfamethoxazole abatement by photo-Fenton: Toxicity, inhibition and biodegradability assessment of intermediates." *Journal of Hazardous Materials* **2007**, *146*(3):459-464; doi:10.1016/j.jhazmat.2007.04.055.

González S, Barceló D, and Petrovic M. "Advanced liquid chromatography-mass spectrometry (LC-MS) methods applied to wastewater removal and the fate of surfactants in the environment." *TRAC Trends in Analytical Chemistry* **2007**, *26*(2):116-124; doi:10.1016/j.trac.2006.12.003.

Gonzalez S, Muller J, Petrovic M, Barcelo D, and Knepper TP. "Biodegradation studies of selected priority acidic pesticides and diclofenac in different bioreactors." *Environmental Pollution* **2006**, *144*(3):926-932.

Gonzalez-Barreiro C, Lores M, Casais MC, and Cela R. "Simultaneous determination of neutral and acidic pharmaceuticals in wastewater by high-performance liquid chromatography-post-column photochemically induced fluorimetry." *Journal of Chromatography A* **2003**, *993*(1):29-37.

González-Mariño I, Quintana JB, Rodríguez I, and Cela R. "Simultaneous determination of parabens, triclosan and triclocarban in water by liquid chromatography/electrospray ionisation tandem mass spectrometry." *Rapid Communications in Mass Spectrometry* **2009**, *23*(12):1756-1766; doi:10.1002/rcm.4069.

González-Mariño I, Quintana JB, Rodríguez I, Rodil R, González-Peñas J, and Cela R. "Comparison of molecularly imprinted, mixed-mode and hydrophilic balance sorbents performance in the solid-phase extraction of amphetamine drugs from wastewater samples for liquid chromatography-tandem mass spectrometry determination." *Journal of Chromatography A* **2009**, *1216*(48):8435-8441; doi:10.1016/j.chroma.2009.09.069.

Gonzalo MP, Arribas RM, Latorre E, Baquero F, and Martinez JL. "Sewage dilution and loss of antibiotic resistance and virulence determinants in E Coli." *FEMS Microbiology Ecology* **1989**, *59*:93-96.

GOOD. "Who drugged my drink?" 2009; http://awesome.goodmagazine.com/transparency/web/trans0209whodruggedmydrink.html.

Goodguide Inc "GoodGuide." 2009; http://www.goodguide.com/.

Gooding MP, Newton TJ, Bartsch MR, and Hornbuckle KC. "Toxicity of synthetic musks to early life stages of the freshwater mussel Lampsilis cardium." *Archives of Environmental Contamination and Toxicology* **2006**, *51*(4):549-558; doi:10.1007/s00244-005-0223-4.

Goodman S. 2009, "NANOTECH: Europe passes disclosure requirements for cosmetics." Greenwire, http://www.eenews.net/Greenwire/2009/03/27/17/.

Goodyear KL and Threlfall EJ. "Use of veterinary antimycotic products in the UK, 1998-2002." *International Journal of Antimicrobial Agents* **2004**, *24*(4):311-314; doi:10.1016/j.ijantimicag.2004.06.007.

Google Groups "Medication Disposal Programs." 2009, http://groups.google.com/group/meddisposal.

Goossens H, Ferech M, Coenen S, and Stephens P. "Comparison of Outpatient Systemic Antibacterial Use in 2004 in the United States and 27 European Countries." *Clinical Infectious Diseases* **2007**, *44*(8):1091-1095; doi:10.1086/512810.

Gopalani D, Kumar S, Jodha AS, Singh R, Khatri PK, and Gopal R. "A novel method for production of polyester films-based nuclear track microfilters." *Journal of Membrane Science* **2000**, *178*(1-2):93-98; doi:10.1016/S0376-7388(00)00482-8.

Gorard DA. "Escalating polypharmacy." *QJM* **2006**, *99*(11):797-800; doi:10.1093/qjmed/hcl109.

Gordon AK, Muller WJ, Gysman N, Marshall SJ, Sparham CJ, O'Connor SM*, et al.* "Effect of laundry activities on in-stream concentrations of linear alkylbenzene sulfonate in a small rural South African river." *Science of the Total Environment* **2009**, *407*(15):4465-4471; doi:10.1016/j.scitotenv.2009.04.023.

Gordon B. 2009, "H.R. 1145: To implement a National Water Research and Development Initiative, and for other purposes." http://thomas.loc.gov/cgi-bin/bdquery/z?d111:HR01145:@@@D&summ2=m&.

Gordon DA, Toth GP, Graham DW, Lazorchak JM, Reddy TV, Knapp CW*, et al.* "Effects of eutrophication on vitellogenin gene expression in male fathead minnows (Pimephales promelas) exposed to 17α-ethynylestradiol in field mesocosms." *Environmental Pollution* **2006**, *142*(3):559-566; doi:10.1016/j.envpol.2005.10.041.

Gordon L, Giraud E, Ganiere JP, Armand F, Bouju-Albert A, de la Cotte N*, et al.* "Antimicrobial resistance survey in a river receiving effluents from freshwater fish farms." *Journal of Applied Microbiology* **2007**, *102*(4):1167-1176; doi:10.1111/j.1365-2672.2006.03138.x.

Gorman A. "Household Hazards: Potential Hazards of Home Cleaning Products." Women's Voices for the Earth, July, 2007, 32 pp; http://www.sehn.org/tccpdf/household%20cleaner%20toxic%20chemicals.pdf.

Goto T and Hiromi J. "Toxicity of 17α-ethynylestradiol and Norethindrone, Constituents of an Oral Contraceptive Pill to the Swimming and Reproduction of Cladoceran Daphnia Magna, with Special Reference to Their Synergetic Effect." *Marine Pollution Bulletin* **2003**, *47*(1-6):139-142; doi:10.1016/S0025-326X(03)00052-3.

Gotti R, Fiori J, Mancini F, and Cavrini V. "Analysis of neutral nitromusks in incenses by capillary electrophoresis in organic solvents and gas chromatography-mass spectrometry." *Electrophoresis* **2005**, *17*(17):3325-3332; doi:10.1002/elps.200500235.

Gotvajn AZ and Zagorc-Koncan J. "Hazard identification of pharmaceutical wastewaters using biodegradability studies." *Water Science and Technology* **2003**, *47*(10):197-204.

Gotvajn AZ, Zagorc-Koncan J, and Tisler T. "Pretreatment of highly polluted pharmaceutical waste broth by wet air oxidation." *Journal of Environmental Engineering* **2007**, *133*(1):89-94; doi:10.1061/(ASCE)0733-9372(2007)133:1(89).

Götz C, Stamm C, Fenner K, Singer H, Schärer M, and Hollender J. "Targeting aquatic microcontaminants for monitoring: exposure categorization and application to the Swiss situation." *Environmental Science and Pollution Research* **2009**, *In press*; doi:10.1007/s11356-009-0167-8.

Götz K and Florian K. "Drug disposal in private households: Does the disposal of pharmaceuticals via domestic sanitary devices contribute to water contamination? [Medikamentenentsorgung in privaten Haushalten: Ein Faktor bei der Gewasserbelastung mit Arzneimittelwirkstoffen?]." *Umweltwissenschaften und Schadstoff-Forschung* **2007**, *19*(3):180-188.

Gould GG, Brooks BW, and Frazer A. "[^{3}H] Citalopram Binding to Serotonin Transporter Sites in Minnow Brains." *Basic & Clinical Pharmacology & Toxicology* **2007**, *101*(3):203-210; doi:10.1111/j.1742-7843.2007.00100.x.

Gould IM. "Antibiotic Use—Ecological Issues and Required Actions." in *Antibiotic Policies: Theory and Practice*, Gould IM and van der Meer JWM, Eds., Springer US; New York, NY, 2005, Chapter 35, pp 701-715; doi:10.1007/0-387-22852-7_35; http://springerlink.com/content/k20r52485383h601/fulltext.pdf.

Gould IM and MacKenzie FM. "Antibiotic exposure as a risk factor for emergence of resistance: the influence of concentration." *Journal of Applied Microbiology* **2002**, *92*(1):78S-84S; doi:10.1046/j.1365-2672.92.5s1.10.x.

Gould JP and Hay TR. "The nature of the reactions between chlorine and purine and pyrimidine bases: Products and kinetics." *Water Science and Technology* **1982**, *14*(6-7):629-640.

Gourmelon A and Ahtiainen J. "Developing Test Guidelines on invertebrate development and reproduction for the assessment of chemicals, including potential endocrine active substances—The OECD perspective." *Ecotoxicology* **2007**, *16*(1):161-167; doi:10.1007/s10646-006-0105-1.

Gover J and Strong L. "Determination of the toxicity of faeces of cattle treated with an ivermectin sustained-release bolus and preference trials using a dung fly, Neomyia cornicina." *Entomologia Experimentalis et Applicata* **1996**, *81*(2):133-139; doi:10.1007/BF00192138.

Goyal S, M. and Adams WN. "Drug-resistant bacteria in continental shelf sediments." *Applied and Environmental Microbiology* **1984**, *48*(4):861-862.

Goyne KW, Chorover J, Kubicki JD, Zimmerman AR, and Brantley SL. "Sorption of the antibiotic ofloxacin to mesoporous and nonporous alumina and silica." *Journal of Colloid and Interface Science* **2005**, *283*(1):160-170; doi:10.1016/j.jcis.2004.08.150.

Gozin M. "Fullerene to treat multiple sclerosis." nanowerk, American Friends of Tel Aviv University, 2009; http://www.nanowerk.com/news/newsid=9716.php.

Grabow W. "The relationship between sewers, environmental pollution and bacteria that are resistant to antimicrobial agents, (in afrikaans)." *Tydskr natuurwet* **1973**, *13*(2):96-99.

Gracia T, Hilscherova K, Jones PD, Newsted JL, Higley EB, Zhang X*, et al.* "Modulation of steroidogenic gene expression and hormone production of H295R cells by pharmaceuticals and other environmentally active compounds." *Toxicology and Applied Pharmacology* **2007**, *225*(2):142-153; doi:10.1016/j.taap.2007.07.013.

Gracia T, Jones P, Higley E, Hilscherova K, Newsted J, Murphy M*, et al.* "Modulation of steroidogenesis by coastal waters and sewage effluents of Hong Kong, China, using the H295R assay." *Environmental Science and Pollution Research* **2008**, *15*(4):332-343; doi:10.1007/s11356-008-0011-6.

Graham DW, Larive CK, Michael L, and deNoyelles FJ. "Fate and Effects of Fluoroquinolone Antibacterial Agents in Aquatic Ecosystems." USEPA, University of Kansas, 2001-2006.

Graham JP. "Environmental pathways of exposure to antimicrobial resistant bacteria: The role of poultry litter disposal practices." Doctoral Dissertation, 2008. 282 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2254964,FM=9,SEARCH=MD.GenericSearch.

Grainger-Rousseau T-J, Fielding DW, Smith MA, Daws D, and Desrosiers D. "What's left in the medicine cabinet? The British Columbia EnviRx Project." *Pharmacotherapy* **1999**, *19*(4):527.

Graitcer PL, Williams WW, Finton RJ, Goodman RA, Thacker SB, and Hanzlick R. "An evaluation of the use of medical examiner data for epidemiologic surveillance." *American Journal of Public Health* **1987**, *77*(9):1212-1214.

Granados M, Encabo M, Compano R, and Prat MD. "Determination of Tetracyclines in water samples using liquid chromatography with fluorimetric detection." *Chromatographia* **2005**, *61*(9-10):471-477; doi:10.1365/s10337-005-0546-3.

Grange AH, Osemwengie LI, Brilis GM, and Sovocool GW. "Ion Composition Elucidation (ICE): an Investigative Tool for Characterization and Identification of Compounds of Regulatory Importance." *Environmental Forensics* **2001**, *2*(1):61-74; doi:10.1006/enfo.2000.0032.

Grange AH, Osemwengie LI, and Sovocool GW. "Identifying compounds despite chromatography limitations: Organophosphates in treated sewage." *LC GC North America* **2004**, *S*(February):96-103.

Grant A and Briggs AD. "Toxicity of ivermectin to estuarine and marine invertebrates." *Marine Pollution Bulletin* **1998**, *36*(7):540-541; doi:10.1016/S0025-326X(98)00012-5.

Grant GA, Frison SL, and Sprons P. "A sensitive method for detection of sulfamethazine and N^4-acetylsulfamethazine residues in environmental samples using solid phase immuneoextraxtion coupled with MALDI-TOF MS." *Journal of Agricultural and Food Chemistry* **2003**, *51*(18):5367-5375; doi:10.1021/jf0343231.

Grant P. "Return of waste medicines to a community pharmacy." *Prescriber* **2001**, *12*(4):29-38.

Graslund S and Bengtsson BE. "Chemicals and biological products used in south-east Asian shrimp farming, and their potential impact on the environment - a review." *Science of the Total Environment* **2001**, *280*(N/A):93-131; doi:10.1016/S0048-9697(01)00818-X.

Graslund S, Holmstrom K, and Wahlstrom A. "A field survey of chemicals and biological products used in shrimp farming." *Marine Pollution Bulletin* **2003**, *46*(1):81-90; doi:10.1016/S0025-326X(02)00320-X.

Grass E and Lalande F. "Enquête sur le dispositif de recyclage des médicaments « Cyclamed." General Inspection of Social Affairs, General Inspection of Social Affairs, Ed., Paris, FR, 2005, 141 pp; http://translate.google.com/translate?hl=en&sl=fr&u=http://www.ladocumentationfrancaise.fr/rapports-publics/054000106/index.shtml&sa=X&oi=translate&resnum=2&ct=result&prev=/search%3Fq%3DEnqu%25C3%25AAte%2Bsur%2Ble%2Bdispositif%2Bde%2Brecyclage%2Bdes%2Bm%25C3%25A9dicaments%2B%26hl%3Den%26rls%3DGGLG,GGLG:2006-12,GGLG:en.

Gratacos-Cubarsi M, Castellari M, Valero A, Diaz I, and Garcia-Regueiro JA. "Novel approach to control sulfamethazine misuse in food-producing animals by hair analysis." *Food Additives and Contaminants* **2006**, *23*(10):981-987; doi:10.1080/02652030600781813.

Gravel A and Vijayan MM. "Salicylate disrupts interregnal steroidogenesis and brain glucocorticoid receptor expression in rainbow trout." *Toxicological Sciences* **2006**, *93*(1):41-49; doi:10.1093/toxsci/kfj I66.

Gravel A and Vijayan MM. "Non-steroidal anti-inflammatory drugs disrupt the heat shock response in rainbow trout." *Aquatic Toxicology* **2007**, *81*(2):197-206; doi:10.1016/j.aquatox.2006.12.001.

Gravel A and Vijayan MM. "Salicylate impacts the physiological responses to an acute handling disturbance in rainbow trout." *Aquatic Toxicology* **2007**, *85*(2):87-95; doi:10.1016/j.aquatox.2007.07.001.

Gravel A, Wilson JM, Pedro DFN, and Vijayan MM. "Non-steroidal anti-inflammatory drugs disturb the osmoregulatory, metabolic and cortisol responses associated with seawater exposure in rainbow trout." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2009**, *149*(4):481-490; doi:10.1016/j.cbpc.2008.11.002.

Graves G, "On the water front." *Vogue*, June, 2008, 108 pp; http://www.eaquasolutions.com/pdf/vogue.pdf.

Gray JL, Esposito KM, Furlong ET, Stinson BM, Kolpin DW, and Phillips PJ. "Microconstituents of emerging concern in reclaimed water and biosolids: considerations for groundwater quality." *Proceedings of the Water Environment Federation* **2007**, *2007*:4740-4753; doi:10.2175/193864707787969315.

Gray JL and Sedlak DL. "The fate of estrogenic hormones in an engineered treatment wetland with dense macrophytes." *Water Environment Research* **2005**, *77*(1):24-31; doi:10.2175/106143005X41582.

Gray LEJr, Lambright C, Parks L, Tyl RW, Orlando EF, Guillette LJJr*, et al.* "Emerging Issues Related to Endocrine Disrupting Chemicals and Environmental Androgens and Antiandrogens." *The Handbook of Environmental Chemistry* **2008**, *3, Part M*:209-247; doi:10.1007/10833691_8.

Gray NF. "Drinking Water Quality: Problems and Solutions." Cambridge University Press, 2009, 2nd ed., 536 pp; http://www.cambridge.org/catalogue/catalogue.asp?isbn=0521702534.

Gray S and Booker N. "Wastewater services for small communities." *Water Science and Technology* **2003**, *47*(7-8):65-71.

Grayson A. "Doctors Regularly Prescribe Placebos: Study Suggests Many Physicians Prescribe Drugs for Patient Peace of Mind Alone." ABC News, 2008; http://abcnews.go.com/Health/ColdandFluNews/story?id=6099708&page=1.

Greb H. "Arzneimittelbericht Sudhessen 1996-2000 Hydrologie in Hessen." Hessesches Landesamt fur umwelt und geologie, Wiesbaden, Germany, 2006. 58 pp.

Greco L, Capri E, and Rustad T. "Biochemical responses in Salmo salar muscle following exposure to ethynylestradiol and tributyltin." *Chemosphere* **2007**, *68*(3):564-571; doi:10.1016/j.chemosphere.2006.12.033.

Green BW and Teichert Coddington DR. "Human food safety and environmental assessment of the use of 17α-methyltestosterone to produce male tilapia in the United States." *Journal of the World Aquaculture Society* **2000**, *31*(3):337-357; doi:10.1111/j.1749-7345.2000.tb00885.x.

Green L, Fullilove M, Evans D, and Shepard P. ""Hey, mom, thanks!": use of focus groups in the development of place-specific materials for a community environmental action campaign." *Environmental Health Perspectives* **2002**, *110 Suppl 2*:265-269.

Green RE, Newton I, and Shultz S. "Diclofenac poisoning as a cause of vulture population declines across the Indian subcontinent." *Journal of Applied Ecology* **2004**, *41*:793-800.

Green RE, Taggart MA, Das D, Pain DJ, Kumar CS, Cunningham AA*, et al.* "Collapse of Asian vulture populations: risk of mortality from residues of the veterinary drug diclofenac in carcasses of treated cattle." *Journal of Applied Ecology* **2006**, *43*(5):949-956; doi:10.1111/j.1365-2664.2006.01225.x.

Greene LA. "Controversy swirls around toilet-to-tap project." *Environmental Health Perspectives* **2000**, *108*(10):A447.

Greenwood R, Allan I, Togola A, Schluesener M, Touraud E, Roig B*, et al.* "Discussion Document on Eco-pharmavigilance." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 79 pp; http://www.knappe-eu.org/fichiers/47-D5.2%20Discussion%20Document%20on%20Eco-pharmavigilance.pdf.

Greenwood R, Vrana B, and Mills G, Eds., "Passive Sampling Techniques in Environmental Monitoring." Wilson & Wilson's Comprehensive Analytical Chemistry series (D. Barcelo, Ed.) ed.; Elsevier, 2007, 486 pp; http://www.kriso.ee/cgi-bin/shop/9780444522252.html.

Greskowiak J, Prommer H, Massmann G, and Nutzmann G. "Modeling Seasonal Redox Dynamics and the Corresponding Fate of the Pharmaceutical Residue Phenazone During Artificial Recharge of Groundwater." *Environmental Science & Technology* **2006**, *40*(21):6615-6621.

Gressitt S. "Maine: First US Legislation for Unused Pharmaceutical Returns." presented at US EPA Workshop: Pharmaceuticals in the Environment, at Office of Research and Development, National Exposure Research Laboratory, Las Vegas, NV, 2005; http://es.epa.gov/ncer/publications/workshop/8-23-2005/Gressitt_0915_d3.pdf.

Greyshock AE and Vikesland PJ. "Triclosan Reactivity in Chloraminated Waters." *Environmental Science & Technology* **2006**, *40*(8):2615-2622.

Griessbach EFC and Lehmann RG. "Degradation of polydimethylsiloxane fluids in the environment -- a review." *Chemosphere* **1999**, *38*(6):1461-1468; doi:10.1016/S0045-6535(98)00548-7.

Griffin LD and Mellon SH. "Selective serotonin reuptake inhibitors directly alter activity of neurosteroidogenic enzymes." *Proceedings of the National Academy of Sciences of the United States of America* **1999**, *96*(23):13512-13517; doi:10.1073/pnas.96.23.13512.

Griffith DR, Barnes RT, and Raymond PA. "Inputs of Fossil Carbon from Wastewater Treatment Plants to U.S. Rivers and Oceans." *Environmental Science & Technology* **2009**, *43*(15):5647-5651; doi:10.1021/es9004043.

Griffiths G. "The Safe Disposal of Clinical Waste." *The Journal of the Royal Society for the Promotion of Health* **1989**, *109*(4):125-127; doi:10.1177/146642408910900405.

Griffiths P, Vingoe L, Hunt N, Mounteney J, and Hartnoll R. "Drug information systems, early warning, and new drug trends: Can drug monitoring systems become more sensitive to emerging trends in drug consumption?" *Substance Use Misuse* **2000**, *35*(6-8):811-844.

Grigoriadou A, Schwarzbauer J, and Georgakopoulos A. "Molecular indicators for pollution source identification in marine and terrestrial water of the industrial area of Kavala city, North Greece." *Environmental Pollution* **2008**, *151*(1):231-242.

Grim KC, Wolfe M, Hawkins W, Johnson R, and Wolf J. "Intersex in Japanese medaka (oryzias latipes) used as negative controls in

toxicologic bioassays: a review of 54 cases from 41 studies." *Environmental Toxicology and Chemistry* **2007**, *26*(8):1636-1643; doi:10.1897/06-494R.1.

Grimes DJ, Singleton FL, and Colwell RR. "Allogenic succession of marine bacterial communities in response to pharmaceutical waste." *Journal of Applied Bacteriology* **1984**, *57*(2):247-261; doi:10.1111/j.1365-2672.1984.tb01389.x.

Grisolia CK. "A comparison between mouse and fish micronucleus test using cyclophosphamide, mitomycin C and various pesticides." *Mutation Research/Genetic Toxicology and Environmental Mutagenesis* **2002**, *518*(2):145-150; doi:10.1016/S1383-5718(02)00086-4.

Grisolia CK and Cordeiro CMT. "Variability in micronucleus induction with different mutagens applied to several species of fish." *Genetics and Molecular Biology* **2000**, *23*(1):235-239; doi:10.1590/S1415-47572000000100041.

Grist EPM, Wells NC, Whitehouse P, Brighty G, and Crane M. "Estimating the effects of 17α-ethinylestradiol on populations of the fathead minnow Pimephales promelas: Are conventional toxicological endpoints adequate?" *Environmental Science & Technology* **2003**, *37*(8):1609-1616; doi:10.1021/es020086r.

Grizis C, Atta-Politou J, and Koupparis MA. "Simultaneous determination of oleuropein and tyrosol in plasma using high performance liquid chromatography with UV detection." *Journal of Liquid Chromatography & Related Technologies* **2003**, *26*(4):599-616; doi:10.1081/JLC-120017908.

Gromadzka K and Nawrocki J. "Degradation of diclofenac and clofibric acid using ozone-loaded perfluorinated solvent." *Ozone Science & Engineering* **2006**, *28*(2):85-94; doi:10.1080/01919510600558890.

Gröning J, Held C, Garten C, Claußnitzer U, Kaschabek SR, and Schlomann M. "Transformation of diclofenac by the indigenous microflora of river sediments and identification of a major intermediate." *Chemosphere* **2007**, *69*(4):509-516.

Groppelli S, Zega G, Biggiogero M, De Bernardi F, Sotgia C, and Pennati R. "Fluconazole induces teratogenic effects in the tunicate Phallusia mammillata." *Environmental Toxicology and Pharmacology* **2007**, *23*(3):265-271; doi:10.1016/j.etap.2006.11.005.

Gros M, Petrovic M, and Barcelo D. "Development of a multi-residue analytical methodology based on liquid chromatography-tandem mass spectrometry (LC-MS/MS) for screening and trace level determination of pharmaceuticals in surface and wastewaters." *Talanta* **2006**, *70*(4):678-690; doi:10.1016/j.talanta.2006.05.024.

Gros M, Petrovic M, and Barcelo D. "Multi-residue analytical methods using LC-tandem MS for the determination of pharmaceuticals in environmental and wastewater samples: a review." *Analytical and Bioanalytical Chemistry* **2006**, *386*(4):941-952; doi:10.1007/s00216-006-0586-z.

Gros M, Petrovic M, and Barcelo D. "Wastewater treatment plants as a pathway for aquatic contamination by pharmaceuticals in the Ebro river basin (Northeast Spain)." *Environmental Toxicology and Chemistry* **2007**, *26*(8):1553-1562; doi:10.1897/06-495R.1.

Gros M, Petrovic M, and Barceló D. "Analysis of Emerging Contaminants of Municipal and Industrial Origin." *The Handbook of Environmental Chemistry* **2008**, *5, Part S/1*:37-104; doi:10.1007/698_5_102.

Gros M, Petrović M, and Barceló D. "Tracing Pharmaceutical Residues of Different Therapeutic Classes in Environmental Waters by Using Liquid Chromatography/Quadrupole-Linear Ion Trap Mass Spectrometry and Automated Library Searching." *Analytical Chemistry* **2009**, *81*(3):898-912; doi:10.1021/ac801358e.

Gros M, Petrović M, Ginebreda A, and Barceló D. "Removal of pharmaceuticals during wastewater treatment and environmental risk assessment using hazard indexes." *Environment International* **2010**, *36*(1):15-26; doi:10.1016/j.envint.2009.09.002.

Gros M, Pizzolato T-M, Petrovic M, López de Alda MJ, and Barceló D. "Trace level determination of β-blockers in waste waters by highly selective molecularly imprinted polymers extraction followed by liquid chromatography-quadrupole-linear ion trap mass spectrometry." *Journal of Chromatography A* **2008**, *1189*(1-2):374-384.

Gross B, Montgomery-Brown J, Naumann A, and Reinhard M. "Occurrence and fate of pharmaceuticals and alkylphenol ethoxylate metabolites in an effluent-dominated river and wetland." *Environmental Toxicology and Chemistry* **2004**, *23*(9):2074-2083; doi:10.1897/03-606.

Gross L. "The Toxic Origins of Disease." *PLoS Biology* **2007**, *5*(7):e193; doi:10.1371/journal.pbio.0050193.

Gross-Sorokin MY, Roast SD, and Brighty GC. "Assessment of feminization of male fish in English rivers by the environment agency

of England and Wales." *Environmental Health Perspectives* **2006**, *114*(1):147-151; doi:10.1289/ehp.8068.

Grote K, Niemann L, Selzsam B, Haider W, Gericke C, Herzler M*, et al.* "Epoxiconazole Causes Changes in Testicular Histology and Sperm Production in the Japanese quail (Coturnix coturnix japonica)." *Environmental Toxicology and Chemistry* **2008**, *27*(11):2368-2374; doi:10.1897/08-048.1.

Grote M, Haciosmanoglu B, Bataineh M, and Nolte J. "Separation of drug traces from water with particular membrane systems." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2004**, *39*(4):1039-1053; doi:10.1081/ESE-120028412.

Grote M, Schwake-Anduschus C, Michel R, Stevens H, Heyser W, Langenkamper G*, et al.* "Incorporation of veterinary antibiotics into crops from manured soil." *Landbauforschung Volkenrode* **2007**, *57*(1):25-32.

Grote M, Vockel A, Schwarze D, Mehlich A, and Freitag M. "Fate of antibiotics in food chain and environment originating from pigfattening (part 1)." *Fresenius Environmental Bulletin* **2004**, *13*(11B, SI):1216- 1224.

Groten JP, Feron VJ, and Suhnel J. "Toxicology of simple and complex mixtures." *Trends in Pharmacological Sciences* **2001**, *22*(6):316-322; doi:10.1016/S0165-6147(00)01720-X.

Grover DP, Zhang ZL, Readman JW, and Zhou JL. "A comparison of three analytical techniques for the measurement of steroidal estrogens in environmental water samples." *Talanta* **2009**, *78*(3):1204-1210; doi:10.1016/j.talanta.2008.12.049.

Gruber V, Halley BA, Hwang SHUC, and Ku CC. "Mobility of avermectin B1a in soil." *Journal of Agricultural and Food Chemistry* **1990**, *38*(3):886-890.

Gruden CL and Mileyeva-Biebesheimer O. "Microbiological fate of nanoparticles commonly found in personal care products." Toledo, OH, 2009.

Grujic S, Vasiljevic T, and Lausevic M. "Determination of multiple pharmaceutical classes in surface and ground waters by liquid chromatography-ion trap-tandem mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(25):4989-5000; doi:10.1016/j.chroma.2009.04.059.

"Testimony of Benjamin H. Grumbles, Assistant Administrator for Water, Environmental Protection Agency, before the Transportation Safety, Infrastructure Security and Water Quality Subcommittee of the Environment and Public Works Committee, United States Senate." 2008; http://www.epa.gov/ocir/hearings/testimony/110_2007_2008/2008_0415_bhg.pdf.

Grumbles BH. "The clean water act: Current and emerging challenges." *Journal of Public Works & Infrastructure* **2008**, *1*(2):185-194.

Grung M, Heimstad ES, Moe M, Schlabach M, Svenson A, Thomas K*, et al.* "Human and Veterinary Pharmaceuticals, Narcotics, and Personal Care Products in the Environment: Current State of Knowledge and Monitoring Requirements." Statens forurensningstilsyn (SFT), TA-2325/2007, Oslo, Norway, 2007, 98 pp; http://www.sft.no/publikasjoner/2325/ta2325.pdf.

Grung M, Kallqvist T, Sakshaug S, Skurtveit S, and Thomas KV. "Environmental assessment of Norwegian priority pharmaceuticals based on the EMEA guideline." *Ecotoxicology and Environmental Safety* **2008**, *71*(2):328-340; doi:10.1016/j.ecoenv.2007.10.015.

Grünheid S, Amy G, and Jekel M. "Removal of bulk dissolved organic carbon (DOC) and trace organic compounds by bank filtration and artificial recharge." *Water Research* **2005**, *39*(14):3219-3228; doi:10.1016/j.watres.2005.05.030.

Gu C and Karthikeyan KG. "Interaction of tetracycline with aluminum and iron hydrous oxides." *Environmental Science & Technology* **2005**, *39*(8):2660-2667; doi:10.1021/es048603o.

Gu C and Karthikeyan KG. "Sorption of the antimicrobial ciprofloxacin to aluminum and iron hydrous oxides." *Environmental Science & Technology* **2005**, *39*(23):9166-9173; doi:10.1021/es051109f.

Gu C, Karthikeyan KG, Sibley SD, and Pedersen JA. "Complexation of the antibiotic tetracycline with humic acid." *Chemosphere* **2007**, *66*(8):1494-1501; doi:10.1016/j.chemosphere.2006.08.028.

Gualtero SM. "Pollution prevention measures for unwanted pharmaceuticals." Department of Earth and Environmental Engineering, Columbia University, Industrial Ecology EAEE E4001, December, 2005, 23 pp; http://www.seas.columbia.edu/earth/wtert/sofos/Gualtero_IETerm_.pdf.

Gualtero SM. "Pollution Prevention Measures for Unwanted Pharmaceuticals." December, 2005, 23 pp; http://www.seas.columbia.edu/earth/wtert/sofos/Gualtero_IETerm_.pdf.

Guardabassi L, Dalsgaard A, Raffatellu M, and Olsen JE. "Increase in the prevalence of oxolinic acid resistant Acinetobacter spp. observed in a stream receiving the effluent from a freshwater trout farm following the treatment with oxolinic acid-medicated feed." *Aquaculture* **2000**, *188*(3-4):205-218; doi:10.1016/S0044-8486(00)00340-9.

Guardabassi L, Lo Fo Wong DMA, and Dalsgaard A. "The effects of tertiary wastewater treatment on the prevalence of antimicrobial resistant bacteria." *Water Research* **2002**, *36*(8):1955-1964; doi:10.1016/S0043-1354(01)00429-8.

Guardabassi L, Petersen A, Olsen JE, and Dalsgaard A. "Antibiotic Resistance in Acinetobacter spp. Isolated from Sewers Receiving Waste Effluent from a Hospital and a Pharmaceutical Plant." *Applied and Environmental Microbiology* **1998**, *64*(9):3499-3502.

Guarino AM. "Aquatic versus mammalian toxicology: applications of the comparative approach." *Environmental Health Perspectives* **1987**, *71*:17-24.

Guarino AM, Batson DB, and Zeeman MG. "Workshop on drug disposition and metabolism in aquatic species." *Veterinary and Human Toxicology* **1986**, *28*(Suppl 1):1-56.

Guarino AM and Lech JJ. "In vivo metabolism and disposition of drugs by aquatic species." *Veterinary and Human Toxicology* **1986**, *28*(Suppl. 1):31-37.

Guarino AM and Lech JJ. "Metabolism, disposition, and toxicity of drugs and other xenobiotics in aquatic species." *Veterinary and Human Toxicology* **1986**, *28*(Suppl. 1):38-44.

Guarino AM, Plakas SM, Dickey RW, and Zeeman M. "Principles of drug absorption and recent studies of bioavailability in aquatic species." *Veterinary and Human Toxicology* **1988**, *30*(Suppl 1):41-44.

Guedes Maniero M, Maia Bila D, and Dezotti M. "Degradation and estrogenic activity removal of 17β-estradiol and 17α-ethinylestradiol by ozonation and $O_3H_2O_2$." *Science of the Total Environment* **2008**, *407*(1):105-115; doi:10.1016/j.scitotenv.2008.08.011.

Guengerich FP. "Cytochrome P450 and Chemical Toxicology." *Chemical Research in Toxicology* **2008**, *21*(1):70-83; doi:10.1021/tx700079z.

Guengerich FP. "Introduction: Human Metabolites in Safety Testing (MIST) Issue." *Chemical Research in Toxicology* **2009**, *22*(2):237-238; doi:10.1021/tx900003k.

Guenther K, Heinke V, Thiele B, Kleist E, Prast H, and Raecker T. "Endocrine Disrupting Nonylphenols Are Ubiquitous in Food." *Environmental Science & Technology* **2002**, *36*(8):1676-1680; doi:10.1021/es010199v.

Guerard JJ, Chin Y-P, Mash H, and Hadad CM. "Photochemical Fate of Sulfadimethoxine in Aquaculture Waters." *Environmental Science & Technology* **2009**, *43*(22):8587-8592; doi:10.1021/es9020537.

Guerin TF. "Co-composting of pharmaceutical wastes in soil." *Letters in Applied Microbiology* **2001**, *33*:256-263.

Guest CA, Johnston CT, King JJ, Alleman JE, Tishmack JK, and Norton LD. "Chemical Characterization of Synthetic Soil from Composting Coal Combustion and Pharmaceutical By-Products." *Journal of Environmental Quality* **2001**, *30*(1):246-253.

Guest JS, Skerlos SJ, Barnard JL, Beck MB, Daigger GT, Hilger H*, et al.* "A New Planning and Design Paradigm to Achieve Sustainable Resource Recovery from Wastewater." *Environmental Science & Technology* **2009**, *43*(16):6126-6130; doi:10.1021/es9010515.

Committee on Transportation and Infrastructure, and Subcommittee on Water Resources and Environment, "Emerging Contaminants in U.S. Waters." Representatives USHo, Washington, DC, 2008; http://transportation.house.gov/hearings/hearingDetail.aspx?NewsID=742.

Guidotti TL. "Emerging contaminants in drinking water: What to do?" *Archives of Environmental & Occupational Health* **2009**, *64*(2):91-91; doi:10.3200/AEOH.64.2.91-92.

Guillette LJ, Jr. "Endocrine disrupting contaminants--beyond the dogma." *Environmental Health Perspectives* **2006**, *114*(S-1):9-12; doi:10.1289/ehp.8045.

Guillette LJ and Edwards TM. "Environmental influences on fertility: can we learn lessons from studies of wildlife?" *Fertility and Sterility* **2008**, *1*(e21-e24); doi:10.1016/j.fertnstert.2007.12.019.

Guinea E, Arias C, Cabot PL, Garrido JA, Rodríguez RM, Centellas F*, et al.* "Mineralization of salicylic acid in acidic aqueous medium by electrochemical advanced oxidation processes using platinum and boron-doped diamond as anode and cathodically generated hydrogen peroxide." *Water Research* **2008**, *42*(1-2):499-511; doi:10.1016/j.watres.2007.07.046.

Guinea E, Brillas E, Centellas F, Cañizares P, Rodrigo MA, and Sáez C. "Oxidation of enrofloxacin with Conductive-diamond electrochemical oxidation, ozonation and Fenton oxidation. A comparison." *Water Research* **2009**, *43*(8):2131-2138; doi:10.1016/j.watres.2009.02.025.

Guinea E, Garrido JA, Rodríguez RM, Cabot P-L, Arias C, Centellas F*, et al.* "Degradation of the fluoroquinolone enrofloxacin by electrochemical advanced oxidation processes based on hydrogen peroxide electrogeneration." *Electrochimica Acta* **2009**, *In Press*; doi:10.1016/j.electacta.2009.11.040.

Guitart C, Frickers P, Horrillo-Caraballo J, Law RJ, and Readman JW. "Characterization of Sea Surface Chemical Contamination after Shipping Accidents." *Environmental Science & Technology* **2008**, *42*(7):2275-2282.

Guitart C and Readman JW. "Critical evaluation of the determination of pharmaceuticals, personal care products, phenolic endocrine disrupters and faecal steroids by GC/MS and PTV-GC/MS in environmental waters." *Analytica Chimica Acta* **2009**, *In Press*; doi:10.1016/j.aca.2009.10.066.

Guitart C, Sumner N, Aguirre L, Pena S, Fuentes G, Frickers T*, et al.* "Pharmaceuticals, personal care products, endocrine disrupters, fragrances and faecal steroids in sewage effluents, riverine, estuarine and coastal waters." in *Progress in Environmental Science and Technology*, Wang Y, Li SC, Huang P, Yang YH, An Y and Sun XY, Eds., Science Press Beijing, 16 Donghuangchenggen North St, Beijing 100707, Peoples R China; Plymouth Marine Lab, Prospect Pl, Plymouth PL1 3DH, Devon, UK, 2007, Chapter Meeting, pp 648-652.

Gujarathi NP, Haney BJ, and Linden JC. "Phytoremediation potential of Myriophyllum aquaticum and Pistia stratiotes to modify antibiotic growth promoters, tetracycline, and oxytetracycline, in aqueous wastewater systems." *International Journal of Phytoremediation* **2005**, *7*(2):99-112; doi:10.1080/16226510590950405.

Gujarathi NP, Haney BJ, Park HJ, Wickramasinghe SR, and Linden JC. "Hairy roots of Helianthus annuus: A model system to study phytoremediation of tetracycline and oxytetracycline." *Biotechnology Progress* **2005**, *21*(3):775-780; doi:10.1021/bp0496225.

Gujarathi NP and Linden JC. "Oxytetracycline inactivation by putative reactive oxygen species released to nutrient medium of Helianthus annuus hairy root cultures." *Biotechnology and Bioengineering* **2005**, *92*(4):393-402; doi:10.1002/bit.20698.

Gülden M, Mörchel S, and Seibert H. "Comparison of mammalian and fish cell line cytotoxicity: impact of endpoint and exposure duration." *Aquatic Toxicology* **2005**, *71*(3):229-236; doi:10.1016/j.aquatox.2004.11.006.

Gulkowska A, He Y, So MK, Yeung LWY, Leung HW, Giesy JP*, et al.* "The occurrence of selected antibiotics in Hong Kong coastal waters." *Marine Pollution Bulletin* **2007**, *54*(8):1287-1293; doi:10.1016/j.marpolbul.2007.04.008.

Gulkowska A, Leung HW, So MK, Taniyasu S, Yamashita N, Yeung LWY*, et al.* "Removal of antibiotics from wastewater by sewage treatment facilities in Hong Kong and Shenzhen, China." *Water Research* **2008**, *42*(1-2):395-403; doi:10.1016/j.watres.2007.07.031.

Gullick RW. "Monitoring systems for early warning of source water contamination." American Water Works Service Company, Inc., Voorhees, NJ, 31 December, 2001, 219 pp.

Gulmez B, Ozturk I, Alp K, and Arikan OA. "Common anaerobic treatability of pharmaceutical and yeast industry wastewater." *Water Science and Technology* **1998**, *38*(4-5):37-44; doi:10.1016/S0273-1223(98)00495-8.

Gultekin I and Ince NH. "Synthetic endocrine disruptors in the environment and water remediation by advanced oxidation processes." *Journal of Environment Management* **2007**, *85*(4):816-832; doi:10.1016/j.jenvman.2007.07.020.

Gulyas H, Gajurel DR, Kucharek K, Skwiot R, Winker M, Furmanska M*, et al.* "Elimination of human pharmaceuticals by yellow water ozonation." in International Conference on Sustainable Sanitation: "Food and Water Security for Latin America", Fortaleza, Ceará, Brasil, 26-28 November, 2007, 7 pp; http://www.tu-harburg.de/aww/publikationen/pdf/Gulyas_etal3.pdf.

Gunderson D. "Study finds chemicals widespread in Minn. waters." MPRnewsQ, 2009, Minnesota Public Radio NewsQ, 25

November http://minnesota.publicradio.org/display/web/2009/11/24/water-quality-testing/.

Gunics G, Motohashi N, Amaral L, Farkas S, and Molnár J. "Interaction between antibiotics and non-conventional antibiotics on bacteria." *International Journal of Antimicrobial Agents* **2000**, *14*(3):239-242; doi:10.1016/S0924-8579(00)00131-X.

Gunnarsson B and Wennmalm A. "Environmental risk assessment and environmental classification of drugs." in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 8, pp 116-124; http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Gunnarsson B and Wennmalm A. "Mitigation of Pharmaceutical Outlet into the Environment – Experiences from Sweden." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 30, pp 475-487; doi:10.1007/978-3-540-74664-5_30; http://www.springerlink.com/content/x535586237056g16/?p=9ed3dcab782d422fa25c2de402461f54&pi=29.

Gunnarsson B and Wennmalm A. "Drug Design Should Involve Consideration of Environmental Risk and Hazard." *Letters in Drug Design & Discovery* **2008**, *5*(4):232-235; doi:10.2174/157018008784619942.

Gunnarsson L, Adolfsson-Erici M, Björlenius B, Rutgersson C, Förlin L, and Larsson DGJ. "Comparison of six different sewage treatment processes--Reduction of estrogenic substances and effects on gene expression in exposed male fish." *Science of the Total Environment* **2009**, *407*(19):5235-5242; doi:10.1016/j.scitotenv.2009.06.018.

Gunnarsson L, Jauhiainen A, Kristiansson E, Nerman O, and Larsson DGJ. "Evolutionary Conservation of Human Drug Targets in Organisms used for Environmental Risk Assessments." *Environmental Science & Technology* **2008**, *42*(15):5807-5813; doi:10.1021/es8005173.

Gunnarsson L, Kristiansson E, Rutgersson C, Sturve J, Fick J, Förlin L*, et al.* "Pharmaceutical Industry Effluent Diluted 1:500 Affects Global Gene Expression, Cytochrome P4501A Activity and Plasma Phosphate in Fish." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2639-2647; doi:10.1897/09-120.1.

Guo J-H, Li X-H, Cao X-L, Li Y, Wang X-Z, and Xu X-B. "Determination of triclosan, triclocarban and methyl-triclosan in aqueous samples by dispersive liquid-liquid microextraction combined with rapid liquid chromatography." *Journal of Chromatography A* **2009**, *1216*(15):3038-3043; doi:10.1016/j.chroma.2009.02.021.

Guo YC and Krasner SW. "Source, Fate, and Transport of Endocrine Disruptors, Pharmaceuticals,and Personal Care Products in Drinking Water Sources in California." National Water Research Institute, 2008-2009, http://www.nwri-usa.org/projects.htm.

Guo YC and Krasner SW. "Occurrence of Primidone, Carbamazepine, Caffeine, and Precursors for N-Nitrosodimethylamine in Drinking Water Sources Impacted by Wastewater." *Journal of the American Water Resources Association* **2009**, *45*(1):58-67; doi:10.1111/j.1752-1688.2008.00289.x.

Gupta P, Mathur N, Bhatnagar P, Nagar P, and Srivastava S. "Genotoxicity evaluation of hospital wastewaters." *Ecotoxicology and Environmental Safety* **2009**, *72*(7):1925-1932; doi:10.1016/j.ecoenv.2009.05.012.

Gupta SK, Gupta SK, and Hung YT. "Treatment of Pharmaceutical Wastes." in *Handbook of Industrial and Hazardous Wastes Treatment*, 2nd ed.; Wang LK, Hung Y-T, Lo HH and Yapijakis C, Eds., 2004, Chapter 3, pp 63-130; http://books.google.com/books?hl=en&lr=&id=b1sWFkVzuPgC&oi=fnd&pg=PA63&ots=_qyKZUwwl-&sig=73HuOowVLohu9PzXcjBs_FN-9js.

Gupta V and Rahman SZ. "Scope of Guidelines on Environmental Pharmacology." in *An Introduction to Environmental Pharmacology*, 1st ed.; Rahman SZ, Shahid M and Gupta V, Eds., Ibn Sina Academy; Aligarh, India, 2008, 16, pp 233-244.

Gurr CJ and Reinhard M. "Harnessing Natural Attenuation of Pharmaceuticals and Hormones in Rivers." *Environmental Science & Technology* **2006**, *40*(9):2872-2876.

Gust M, Buronfosse T, Giamberini L, Ramil M, Mons R, and Garric J. "Effects of fluoxetine on the reproduction of two prosobranch mollusks: Potamopyrgus antipodarum and Valvata piscinalis." *Environmental Pollution* **2009**, *157*(2):423-429; doi:10.1016/j.envpol.2008.09.040.

Gutendorf B and Westendorf J. "Comparison of an array of in vitro assays for the assessment of the estrogenic potential of natural and synthetic estrogens, phytoestrogens and xenoestrogens." *Toxicology* **2001**, *166*(1-2):79-89; doi:10.1016/S0300-483X(01)00437-1.

Gutiérrez S, Fernandez C, Barata C, and Tarazona JV. "Forecasting risk along a river basin using a probabilistic and deterministic model for environmental risk assessment of effluents through ecotoxicological evaluation and GIS." *Science of the Total Environment* **2009**, *In Press*; doi:10.1016/j.scitotenv.2009.09.053.

Gutierrez-Sanchez G, Roussos S, and Augur C. "Effect of the nitrogen source on caffeine degradation by Aspergillus tamarii." *Letters in Applied Microbiology* **2004**, *38*(1):50-55; doi:10.1046/j.1472.

Gutjahr-Gobell RE, Zaroogian GE, Borsay Horowitz DJ, Gleason TR, and Mills LJ. "Individual effects of estrogens on a marine fish, Cunner (Tautogolabrus adspersus), extrapolated to the population level." *Ecotoxicology and Environmental Safety* **2006**, *63*(2):244-252; doi:10.1016/j.ecoenv.2005.05.017.

Guy E. "Green Pharmacy Toolkit." Teleosis Institute, 2009; http://www.prlog.org/10170753-teleosis-institute-releases-green-pharmacy-toolkit.html.

GVK Bio "Drug Database." GVK Bioscience Private Limited 2009; http://www.gvkbio.com/database_pdf/Drug.pdf.

GW SPHHS. "Pharmaceuticals are in the Drinking Water: What Does It Mean?" George Washington School of Public Health and Health Services, Washington, DC, April, 2008, 11 pp; http://www.gwumc.edu/sphhs/about/rapidresponse/download/Rapid_H2O_Final.pdf.

GWRC. "Endocrine disrupting compounds: Workshop on methodologies for chemical and biological analysis of EDC in water systems." Global Water Research Foundation, 11 September, 2003, http://www.waterresearchfoundation.org/research/TopicsandProjects/resources.aspx?Topic=EDCS&type=SpecialReport.

GWRC. "Endocrine disrupting compounds: Workshop on methodologies for chemical and biological analysis of EDC is water systems." Global Water Research Foundation, 25 April, 2003, http://www.waterresearchfoundation.org/research/TopicsandProjects/resources.aspx?Topic=EDCS&type=SpecialReport.

GWRC. "Endocrine disrupting compounds: An overview of sources and biological methods for measuring EDCs." Global Water Research Foundation, 26 May, 2005, http://www.waterresearchfoundation.org/research/TopicsandProjects/resources.aspx?Topic=EDCS&type=SpecialReport.

GWRC. "Endocrine disrupting compounds: Knowledge gaps and research needs." Global Water Research Foundation, 26 May, 2005, http://www.waterresearchfoundation.org/research/TopicsandProjects/resources.aspx?Topic=EDCS&type=SpecialReport.

GWRC. "Endocrine disrupting compounds: Occurrence of EDCs in water systems." Global Water Research Foundation, 26 May, 2005, http://www.waterresearchfoundation.org/research/TopicsandProjects/resources.aspx?Topic=EDCS&type=SpecialReport.

GWRC. "Endocrine disrupting compounds: Priority list of EDCs." Global Water Research Foundation, 26 May, 2005, http://www.waterresearchfoundation.org/research/TopicsandProjects/resources.aspx?Topic=EDCS&type=SpecialReport.

GWRC. "Pharmaceuticals and personal products in the water cycle: An international review." Global Water Research Foundation, 25 May, 2005, http://www.waterresearchfoundation.org/research/TopicsandProjects/resources.aspx?Topic=EDCS&type=SpecialReport.

GWRC. "Pharmaceuticals and personal products in the water cycle: Report of the GWRC research strategy workshop." Global Water Research Foundation, 25 May, 2005, http://www.waterresearchfoundation.org/research/TopicsandProjects/resources.aspx?Topic=EDCS&type=SpecialReport.

GWRC. "Endocrine disrupters in sewage sludge: A comparison of analytical methods." Global Water Research Foundation, 11 September, 2006, http://www.waterresearchfoundation.org/research/TopicsandProjects/resources.aspx?Topic=EDCS&type=SpecialReport.

GWRC. "Endocrine disrupters in sewage sludge: Analytical method development." Global Water Research Foundation, 11 September, 2006, http://www.waterresearchfoundation.org/research/TopicsandProjects/resources.aspx?Topic=EDCS&type=SpecialReport.

GWRC. "In vitro bioassays to detect estrogenic activity in environmental waters." Global Water Research Foundation, 18 October, 2007, http://www.waterresearchfoundation.org/research/TopicsandProjects/resources.aspx?Topic=EDCS&type=SpecialReport.

GWRC. "Tools to detect estrogenic activity in environmental waters." Global Water Research Foundation, 23 December, 2008, http://www.waterresearchfoundation.org/research/TopicsandProjects/resources.aspx?Topic=EDCS&type=SpecialReport.

GWRC. "Development of an International Priority List of Pharmaceuticals Relevant for the Water Cycle." Kiwa Water Research,

CIRSEE and TZW, Global Water Research Coalition, The Netherlands, 2008, 23 pp; http://library.wur.nl/WebQuery/hydrotheek/lang/1888134.

Gyllenhammar I. "Endocrine Disruption in Amphibians: Developmental Effects of Ethynylestradiol and Clotrimazole on the Reproductive System." Doctoral Dissertation, Uppsala University, Uppsala, Sweden, 2008. 57 pp; http://www.diva-portal.org/diva/getDocument?urn_nbn_se_uu_diva-9209-2__fulltext.pdf.

Gyllenhammar I, Eriksson H, Söderqvist A, Lindberg RH, Fick J, and Berg C. "Clotrimazole exposure modulates aromatase activity in gonads, brain during gonadal differentiation in Xenopus tropicalis frogs." *Aquatic Toxicology* **2009**, *91*(2):102-109; doi:10.1016/j.aquatox.2008.10.005.

Gyllenhammar I, Holm L, Eklund R, and Berg C. "Reproductive toxicity in Xenopus tropicalis after Developmental Exposure to Environmental Concentrations of Ethynylestradiol." *Aquatic Toxicology* **2009**, *91*(2):171-178; doi:10.1016/j.aquatox.2008.06.019.

Haack SK, Duris JW, Fogarty LR, Kolpin DW, Focazio MJ, Meyer MT*, et al.* "Comparing wastewater chemicals, indicator bacteria concentrations, and bacterial pathogen genes as fecal pollution indicators." *Journal of Environmental Quality* **2009**, *38*(1):248-258; doi:10.2134/jeq2008.0173.

Haap T, Triebskorn R, and Köhler H-R. "Acute effects of diclofenac and DMSO to Daphnia magna: Immobilisation and hsp70-induction." *Chemosphere* **2008**, *73*(3):353-359; doi:10.1016/j.chemosphere.2008.05.062.

Habauzit D, Armengaud J, Roig B, and Chopineau J. "Determination of estrogen presence in water by SPR using estrogen receptor dimerization." *Analytical and Bioanalytical Chemistry* **2008**, *390*(3):873-883; doi:10.1007/s00216-007-1725-x.

Habauzit D, Chopineau J, and Roig B. "SPR-based biosensors: a tool for biodetection of hormonal compounds." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1215-1223; doi:10.1007/s00216-006-0958-4.

Haberer K and Ternes TA. "Bedeutung von wasserwerksgängigen Metaboliten für die Trinkwasserversorgung [Importance of waterworks-associated metabolites for drinking water production]." *GWF-Wasser/Abwasser* **1996**, *137*(10):573-578.

Haeba M, Hilscherova K, Mazurova E, and Blaha L. "Selected endocrine disrupting compounds (vinclozolin, flutamide, ketoconazole and dicofol): Effects on survival, occurrence of males, growth, molting and reproduction of Daphnia magna." *Environmental Science and Pollution Research International* **2008**, *15*(3):222-227; doi:10.1065/espr2007.12.466.

Hagerman E. "Your sewer on drugs." *Popular Science* **2008**, (Posted 02.21.2008).

Haggard BE and Bartsch LD. "Net Changes in Antibiotic Concentrations Downstream from an Effluent Discharge." *Journal of Environmental Quality* **2009**, *38*(1):343-352; doi:10.2134/jeq2007.0540.

Haggard BE, DeLaune PB, Smith DR, and Moore PA. "Nutrient and □17-estradiol loss in runoff water from poultry." *Journal of the American Water Resources Association* **2005**, *41*(2):245-256.

Haggard BE, Galloway JM, Green WR, and Meyer MT. "Pharmaceuticals and other organic chemicals in selected north-central and northwestern Arkansas streams." *Journal of Environmental Quality* **2006**, *35*(4):1078-1087.

Hahlbeck E, Katsiadaki I, Mayer I, Adolfsson-Erici M, James J, and Bengtsson B-E. "The juvenile three-spined stickleback (Gasterosteus aculeatus L.) as a model organism for endocrine disruption II--kidney hypertrophy, vitellogenin and spiggin induction." *Aquatic Toxicology* **2004**, *70*(4):311-326; doi:10.1016/j.aquatox.2004.10.004.

Hahn T and Schulz R. "Indirect effects of antibiotics in the aquatic environment: A laboratory study on detritivore food selection behavior." *Human and Ecological Risk Assessment* **2007**, *13*(3):535-542; doi:10.1080/10807030701341092.

Haiß A and Kümmerer K. "Biodegradability of the X-ray contrast compound diatrizoic acid, identification of aerobic degradation products and effects against sewage sludge micro-organisms." *Chemosphere* **2006**, *62*(2):294-302; doi:10.1016/j.chemosphere.2005.05.007.

Hajkova K, Pulkrabova J, Hajslova J, Randak T, and Zlabek V. "Chub (Leuciscus cephalus) as a bioindicator of contamination of the Vltava River by synthetic musk fragrances." *Archives of Environmental Contamination and Toxicology* **2007**, *53*(3):390-396; doi:10.1007/s00244-006-0190-4.

Hajkova K, Pulkrabova J, Schurek J, Hajslova J, Poustka J, Napravnikova M*, et al.* "Novel approaches to the analysis of steroid estrogens in river sediments." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1351-1363; doi:10.1007/s00216-006-1026-9.

Hajšlová J and Šetková L. "Synthetic musks in bioindicators: Monitoring data of fish and human milk samples from the Czech Republic." in *Synthetic Musk Fragrances in the Environment*, Rimkus GG, Ed., Springer-Verlag; Heidelberg, 2004, pp 151-188.

Hakk H, Millner P, and G. L. "Decrease in water soluble 17β-estradiol and testosterone in composted poultry manure with time." *Journal of Environmental Quality* **2005**, *34*(3):943-950; doi:10.2134/jeq2004.0164.

Halasi S. "Waste not, want not: a guide to appropriate disposal of used, expired or unwanted drugs." *Pharmacy Practice* **2005**, *21*(10):34-41.

Halden RU. "Comment on 'Accumulation of contaminants in fish from wastewater treatment wetlands'." *Environmental Science & Technology* **2006**, *40*(10):3437; author reply 3438-3439; doi:10.1021/es052474+.

Halden RU. "Pharma-Ecology – The Occurrence and Fate of Pharmaceuticals and Personal Care Products in the Environment." *Environmental Health Perspectives* **2009**, *117*(4):A172.

Halden RU and Paull DH. "Analysis of triclocarban in aquatic samples by liquid chromatography electrospray ionization mass spectrometry." *Environmental Science & Technology* **2004**, *38*(18):4849-4855; doi:10.1021/es049524f.

Halden RU and Paull DH. "Co-occurrence of triclocarban and triclosan in U.S. water resources." *Environmental Science & Technology* **2005**, *39*(6):1420-1426; doi:10.1021/es049071e.

Halden RU and Paull DH. "Response to Comment On "Co-Occurrence of Triclocarban and Triclosan in U.S. Water Resources"." *Environmental Science & Technology* **2005**, *39*(16):6335-6336; doi:10.1021/es058014y.

Hale RC and La Guardia MJ. "Emerging contaminants of concern in coastal and estuarine environments." in *Coastal and estuarine risk assessment*, Newman MC, Ed., 2002, Environmental and Ecological Risk Assessment Series, pp 41-72; http://www.vliz.be/imis/imis.php?module=ref&refid=79925.

Halford B. "Side Effects: Pharmaceuticals have been finding their way into our environment for a long time, but just what are they doing there?" *Chemical & Engineering News* **2008**, *86*(8):13-17.

Halford B. "Don't Flush: What To Do With Your Unused Pharmaceuticals." *Chemical & Engineering News* **2008**, *86*(8):16.

Halford B. "Formulations for Fighting Abuse: Opioid makers aim to thwart misuse with excipients, additives, and antagonists." *Chemical & Engineering News* **2008**, *86*(23):40-41.

Hall AJ, Logan JE, Toblin RL, Kaplan JA, Kraner JC, Bixler D*, et al.* "Patterns of Abuse Among Unintentional Pharmaceutical Overdose Fatalities." *JAMA* **2008**, *300*(22):2613-2620; doi:10.1001/jama.2008.802.

Hall B, Tozer S, Safford B, Coroama M, Steiling W, Leneveu-Duchemin MC*, et al.* "European consumer exposure to cosmetic products, a framework for conducting population exposure assessments." *Food and Chemical Toxicology* **2007**, *45*(11):2097-2108; doi:10.1016/j.fct.2007.06.017.

Hall W, Degenhardt L, Sindicich N, and Kris H. "Illicit Drug Use and the Burden of Disease." in *International Encyclopedia of Public Health*, Heggenhougen K and Quah S, Eds., Academic Press; Oxford, 2008, pp 523-530; doi:10.1016/B978-012373960-5.00355-5; http://www.sciencedirect.com/science/article/B98GG-4T7XCGF-9V/2/8b84b018198909f2e74c9a8cfd6fa936.

Hallare AV, Kohler HR, and Triebskorn R. "Developmental toxicity and stress protein responses in zebrafish embryos after exposure to diclofenac and its solvent, DMSO." *Chemosphere* **2004**, *56*(7):659-666; doi:10.1016/j.chemosphere.2004.04.007.

Halldin K, Berg C, Brandt I, and Brunstrom B. "Sexual behavior in Japanese quail as a test end point for endocrine disruption: Effects of in Ovo exposure to ethinylestradiol and diethylstilbestrol." *Environmental Health Perspectives* **1999**, *107*(11):861-866.

Haller MY, Muller SR, McArdell CS, Alder AC, and Suter MJF. "Quantification of veterinary antibiotics (sulfonamides and trimethoprim) in animal manure by liquid chromatography-mass spectrometry." *Journal of Chromatography A* **2002**, *952*(1-2):111-120; doi:10.1016/S0021-9673(02)00083-3.

Halley BA, Jacob TA, and Lu AYH. "The environmental impact of the use of ivermectin: Environmental effects and fate." *Chemosphere* **1989**, *18*(7-8):1543-1563.

Halley BA, VandenHeuvell WJA, Wislocki PG, Herd R, and Wardhaugh K. "Environmental effects of the usage of avermectin in

livestock." *Veterinary Parasitology* **1993**, *48*(1-4):1-343.

Halling-Sørensen B "Complete list of publications." http://www.dfh.dk/insta/personale/bhs/publications.html.

Halling-Sørensen B. "Algal toxicity of antibacterial agents used in intensive farming." *Chemosphere* **2000**, *40*(7):731-739; doi:10.1016/S0045-6535(99)00445-2.

Halling-Sørensen B. "Inhibition of aerobic growth and nitrification of bacteria in sewage sludge by antibacterial agents." *Archives of Environmental Contamination and Toxicology* **2001**, *40*(4):451-460; doi:10.1007/s002440010197.

Halling-Sørensen B, Jacobsen A-M, Jensen J, Sengeløv G, Vaclavik E, and Ingerslkev F. "Dissipation and effects of chlortetracycline and tylosin in two agricultural soils: a field-scale study in southern Denmark." *Environmental Toxicology and Chemistry* **2005**, *24*(4):802-810; doi:10.1897/03-576.1.

Halling-Sørensen B, Jensen J, Tjørnelund J, and Montfors MHMM. "Worst-case estimations of predicted environmental soil concentrations (PEC) of selected veterinary antibiotics and residues in Danish Agriculture." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 1st ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2001, Chapter 13, pp 143-156.

Halling-Sørensen B, Krogh K, and Hansen M. "Veterinary medicines in the environment - special emphasis on the fate and transport of antibiotics and antiparasetics with manure and biosolids." DETT Farmaceutiske Fakultet, Københavns Universitet, 21 November 2007; http://www.safonetwork.org/workshops/ws4/present/boxall.pdf.

Halling-Sørensen B, Lutzhoft HCH, Andersen HR, and Ingerslev F. "Environmental risk assessment of antibiotics: comparison of mecillinam, trimethoprim and ciprofloxacin." *Journal of Antimicrobial Chemotherapy* **2000**, *46*(1):53-58.

Halling-Sorensen B, Lykkeberg A, Ingerslev F, Blackwell P, and Tjornelund J. "Characterisation of the abiotic degradation pathways of oxytetracyclines in soil interstitial water using LC-MS-MS." *Chemosphere* **2003**, *50*(10):1331-1342; doi:10.1016/S0045-6535(02)00766-X.

Halling-Sorensen B, Nors Nielsen S, Lanzky PF, Ingerslev F, Holten Lutzhoft HC, and Jorgensen SE. "Occurrence, fate and effects of pharmaceutical substances in the environment- A review." *Chemosphere* **1998**, *36*(2):357-393; doi:10.1016/S0045-6535(97)00354-8.

Halling-Sørensen B, Sengeløv G, Ingerslev F, and Jensen LB. "Reduced antimicrobial potencies of oxytetracycline, tylosin, sulfadiazine, streptomycin, ciprofloxacin and olaquindox due to environmental processes." *Archives of Environmental Contamination and Toxicology* **2003**, *44*(1):7-16; doi:10.1007/s00244-002-1234-z.

Halling-Sørensen B, Sengeløv G, and Tjørnelund J. "Toxicity of tetracyclines and tetracycline degradation products to environmentally relevant bacteria, including selected tetracycline-resistant bacteria." *Archives of Environmental Contamination and Toxicology* **2002**, *42*(3):263-271; doi:10.1007/s00244-001-0017-2.

Halm S, Pounds N, Maddix S, Rand-Weaver M, Sumpter JP, Hutchinson TH*, et al.* "Exposure to exogenous 17β-oestradiol disrupts P450aromB mRNA expression in the brain and gonad of adult fathead minnows (Pimephales promelas)." *Aquatic Toxicology* **2002**, *60*(3-4):285-299; doi:10.1016/S0166-445X(02)00011-5.

Hamidi M, Rafiei P, and Azadi A. "Designing PEGylated therapeutic molecules: advantages in ADMET properties." *Expert Opinion on Drug Discovery* **2008**, *3*(11):1293-1307; doi:10.1517/17460441.3.11.1293.

Hamilton S. "Thermopower's thermal desorption process for the treatment of pharmaceutical waste." *SA Pharmaceutical Journal* **2008**:6-7.

Hamlyn-Harris D. "Review of health issues associated with potable reuse of wastewater (RTF200/00)." Department of Health and Aged Care, RFT200/00, Canberra, Commonwealth of Australia, March, 2001, 71 pp; http://www.health.gov.au/internet/main/Publishing.nsf/Content/health-pubhlth-publicat-document-metadata-env_water.htm.

Hammer M, Clemens J, and Otterpohl R. "Reuse of Urine in Agriculture. Can Pharmaceuticals Cause a Problem?" Institute for Wastewater Management and Water Protection, Hamburg University of Technology, 2007; http://www2.gtz.de/Dokumente/oe44/ecosan/en-reuse-of-urine-in-agriculture-2007.pdf.

Hammer M, Gulyas H, Behrendt J, and Otterpohl R. "Acquisition of Environmental Occurrence of Pharmaceuticals by a Database." Institute of Wastewater Management and Water Protection, Hamburg University of Technology, Hamburg, Germany, 2007, 1 pp; http://www2.gtz.de/Dokumente/oe44/ecosan/en-acquisition-of-environmental-occurrence-2007.pdf.

Hammer M and Otterpohl R. "Pharmaceutical residues in the environment – Advantages and disadvantages of conventional wastewater treatment and ecological sanitation systems." 6 pp; http://www.tu-harburg.de/aww/publikationen/pdf/paper_hammer_kiev.pdf.

Hammer M, Tettenborn F, Behrendt J, Gulyas H, and Otterpohl R. "Pharmaceutical residues: Database assessment of occurrence in the environment and exemplary treatment processes for urine." in IWA 1st National Young Researchers Conference - Emerging Pollutants and Emerging Technologies, Germany, IWA, 27-28 October, 2005, 12 pp; http://www.tu-harburg.de/aww/publikationen/pdf/Hammer_Tettenborn_Aachen.pdf.

Hammond E, Humphrey A, Nwankpa C, and LaiHing K. "Pharmaceuticals and personal care products in residential and industrial effluent wastewater." *Abstracts of Papers - American Chemical Society* **2005**, *229*(1 March 13):U508-U508.

Hamscher G. "Veterinary pharmaceuticals." in *Organic Pollutants in the Water Cycle*, 1st ed.; Reemtsma T and Jekel M, Eds., Wiley-VCH; Weinheim, Germany, 2006, Chapter 5, pp 99-120; doi:10.1002/352760877X; http://www3.interscience.wiley.com/cgi-bin/summary/112770856/SUMMARY.

Hamscher G. "Review: Tierarzneimittel in der Umwelt unter besonderer Berücksichtigung von Stallstäuben [Review: Animal drug in the environment with special consideration of stable types of dust]." *Journal of Consumer Protection & Food Safety [Journal für Verbraucherschutz und Lebensmittelsicherheit]* **2008**, *3*:165-173; doi:10.1007/s00003-008-0342-8.

Hamscher G and Hartung J. "Veterinary Antibiotics in Dust: Sources, Environmental Concentrations, and Possible Health Hazards." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 7, pp 95-102; doi:10.1007/978-3-540-74664-5_7; http://www.springerlink.com/content/t217235742237370/?p=391113ff850047a6aac333000d86102f&pi=6.

Hamscher G, Pawelzick HT, Hoper H, and Nau H. "Antibiotics in soil: Routes of entry, environmental concentrations, fate and possible effects." in *Pharmaceuticals in the environment - Sources, fate, effects, and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 11, pp 139-148.

Hamscher G, Pawelzick HT, Höper H, and Nau H. "Tierarzneimittelrückstände in Wirtschaftsdüngern, Boden, Sicker- und Grundwasser [Veterinary drug residues in liquid manure, soil, soilwater and groundwater]." in *Spurenstoffe in Gewässern: Pharmazeutische Reststoffe und endorkrin wirksame Substanzen*, Track T and Kreysa G, Eds., Wiley-VCH; 2003, pp.

Hamscher G, Pawelzick HT, Höper H, and Nau H. "Different behavior of tetracyclines and sulfonamides in sandy soils after repeated fertilization with liquid manure." *Environmental Toxicology and Chemistry* **2005**, *24*(4):861-868; doi:10.1897/04-182R.1.

Hamscher G, Pawelzick HT, Sczesny S, Nau H, and Hartung J. "Antibiotics in dust originating from a pig-fattening farm: A new source of health hazard for farmers?" *Environmental Health Perspectives* **2003**, *111*(13):1590-1594; doi:10.1289/ehp.6288.

Hamscher G, Priess B, and Nau H. "Untersuchung von Teichwässern und -sedimenten in niedersächsischen Aquakulturen im Sommer 2005 auf Sulfonamide und Tetracycline [A survey of the occurrence of various sulfonamides and tetracyclines in water and sediment samples originating from aquaculture systems in northern Germany in summer 2005]." *Archiv für Lebensmittelhygiene* **2006**, *57*(4):97-101.

Hamscher G, Sczesny S, AbuQare A, Hoper H, and Nau H. "[Substances with pharmacological effects including hormonally active substances in the environment: identification of tetracyclines in soil fertilized with animal slurry]." *Deutsche Tierarztliche Wochenschrift* **2000**, *107*(8):332-334.

Hamscher G, Sczesny S, Hoper H, and Nau H. "Determination of persistent tetracycline residues in soil fertilized with liquid manure by high-performance liquid chromatography with electrospray ionization tandem mass spectrometry." *Analytical Chemistry* **2002**, *74*(7):1509-1518; doi:10.1021/ac015588m.

Hamscher G, Sczesny S, and Nau H. "Tetracycline and Chlortetracycline Residues in Soil Fertilized with Liquid Manure." in *Livestock Farming and the Environment*, Hartung J and Wathes C, Eds., Sonderheft 226, Braunshweig, Germany, 2000, pp 27-31; http://www.agriculture.de/acms1/conf6/ws4tetra.htm.

Han G, Liu Z, and Wang Y. "Preparation and application of pharmaceutical wastewater treatment by praseodymium doped SnO2/Ti electrocatalytic electrode." *Journal of Rare Earths* **2008**, *26*(4):532-537; doi:10.1016/S1002-0721(08)60132-5.

Han GH, Hur HG, and Kim SD. "Ecotoxicological risk of pharmaceuticals from wastewater treatment plants in Korea: Occurrence and toxicity to Daphnia magna." *Environmental Toxicology and Chemistry* **2006**, *25*(1):265-271; doi:10.1897/05-193R.1.

Hanisch C. "Is extended producer responsibility effective?" *Environmental Science & Technology* **2000**, *34*(7):170A-175A.

Hankemeier T, Steketee PC, Vreuls JJ, and Brinkman UAT. "Automated at-line solid-phase extraction-gas chromatographic analysis of micropollutants in water using the PrepStation." *Journal of Chromatography A* **1996**, *750*(1-2):161-174; doi:10.1016/0021-9673(96)00556-0.

Hankemeier T, Steketee PC, Vreuls JJ, and Brinkman UAT. "At-line SPE-GC-MS of micropollutants in water using the PrepStation." *Fresenius Journal of Analytical Chemistry* **1999**, *364*(1-2):106-112; doi:10.1007/s002160051308.

Hannah R, D'Aco VJ, Anderson PD, Buzby ME, Caldwell DJ, Cunningham VL*, et al.* "Exposure Assessment of 17α-Ethinyl Estradiol in Surface Waters of the United States and Europe." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2725-2732; doi:10.1897/08-622.1.

Hannigan MP, Cass GR, Penman BW, Crespi CI, Lafleur A, Busby Jr. WF*, et al.* "Bioassay-Directed Chemical Analysis of Los Angeles Airborne Particulate Matter Using a Human Cell Mutagenicity Assay." *Environmental Science and Technology* **1998**, *32*:3502-3514; doi:10.1021/es9706561.

Hano T, Oshima Y, Kinoshita M, Tanaka M, Mishima N, Ohyama T*, et al.* "Quantitative bioimaging analysis of gonads in olvas-GFP/ST-II YI medaka (transgenic Oryzias latipes) exposed to ethinylestradiol." *Environmental Science & Technology* **2007**, *41*(4):1473-1479; doi:10.1021/es0620134.

Hanselman TA, Graetz DA, and Wilkie AC. "Manure-borne estrogens as potential environmental contaminants: A review." *Environmental Science & Technology* **2003**, *37*(24):5471-5478; doi:10.1021/es034410+.

Hanselman TA, Graetz DA, and Wilkie AC. "Fate of poultry manure estrogens in soils: A review." *Proceedings - Soil and Crop Science Society of Florida* **2003**, *62*:8-11.

Hanselman TA, Graetz DA, and Wilkie AC. "Comparison of Three Enzyme Immunoassays for Measuring 17β-estradiol in Flushed Dairy Manure Wastewater." *Journal of Environmental Quality* **2004**, *33*(5):1919-1923.

Hanselman TA, Graetz DA, Wilkie AC, Szabo NJ, and Diaz CS. "Determination of steroidal estrogens in flushed dairy manure wastewater by gas chromatography-mass spectrometry." *Journal of Environmental Quality* **2006**, *35*(3):697-700; doi:10.2134/jeq2005.0282.

Hansen H and Källqvist T. "Miljøvurdering av Triclosan [Environmental assessment of Triclosan]." Norsk Institut for Vattenforskning (NIVA), 2001.

Hansen LB, Saseen JJ, Westfall JM, Holcomb S, Nuzum DS, and Pace WD. "Evaluating sample medications in primary care: a practice-based research network study." *Joint Commission Journal on Quality and Patient Safety/Joint Commision Resources* **2006**, *32*(12):688-692.

Hansen M, Björklund E, Krogh KA, and Halling-Sørensen B. "Analytical strategies for assessing ionophores in the environment." *Trends in Analytical Chemistry* **2009**, *28*(5):521-533; doi:10.1016/j.trac.2009.01.008.

Hansen MK and Horsberg TE. "Single-dose pharmacokinetics of flumequine in the eel (Anguilla anguilla) after intravascular, oral and bath administration." *Journal of Veterinary Pharmacology and Therapeutics* **2000**, *23*(3):169-174; doi:10.1046/j.1365-2885.2000.00277.x.

Hansen MK, Nymoen U, and Horsberg TE. "Pharmacokinetic and pharmacodynamic properties of metomidate in turbot (Scophthalmus maximus) and halibut (Hippoglossus hippoglossus)." *Journal of Veterinary Pharmacology and Therapeutics* **2003**, *26*(2):95-103; doi:10.1046/j.1365-2885.2003.00454.x.

Hansen P-D. "Biosensors for Environmental and Human Health." in *Advanced Environmental Monitoring*, Kim YJ and Platt U, Eds., Berlin, Germany, 2007, Chapter 23, pp 297-311; doi:10.1007/978-1-4020-6364-0_23; http://dx.doi.org/10.1007/978-1-4020-6364-0_23.

Hansen P-D. "Biosensors and Eco-toxicology." *Engineering in Life Sciences* **2008**, *8*(1):26-31; doi:10.1002/elsc.200720228.

Hansen PK, Lunestad BT, and Samuelsen OB. "Effects of Oxytetracycline, Oxolinic Acid, and Flumequine on Bacteria in an Artificial Marine Fish Farm Sediment." *Canadian Journal of Microbiology* **1992**, *38*(12):1307-1312.

Hanson KM, Gratton E, and Bardeen CJ. "Sunscreen enhancement of UV-induced reactive oxygen species in the skin." *Free Radical*

Biology and Medicine **2006**, *41*(8):1205-1212; doi:10.1016/j.freeradbiomed.2006.06.011.

Hanson ML, Knapp CW, and Graham DW. "Field assessment of oxytetracycline exposure to the freshwater macrophytes Egeria densa Planch. and Ceratophyllum demersum L." *Environmental Pollution* **2006**, *141*(3):434-442; doi:10.1016/j.envpol.2005.08.068.

Hanson N, Larsson, Aring, and ke. "Experiences from a biomarker study on farmed rainbow trout (oncorhynchus mykiss) used for environmental monitoring in a swedish river." *Environmental Toxicology and Chemistry* **2009**, *28*(7):1536-1545; doi:10.1897/08-501.1.

Hanzlick R. "Medical examiners, coroners, and public health: a review and update." *Archives of Pathology and Laboratory Medicine* **2006**, *130*(9):1274-1282.

Hanzlick R. "Death investigation: Systems and procedures." Routledge, USA, 2006; http://www.informaworld.com/smpp/title~content=t795248210~db=all.

Hanzlick R. "The conversion of coroner systems to medical examiner systems in the United States: a lull in the action." *American Journal of Forensic Medicine and Pathology* **2007**, *28*(4):279-283; doi:10.1097/PAF.0b013e31815b4d5a.

Hanzlick R. "An Overview of Medical Examiner/Coroner Systems in The United States - Development, Current Status, Issues, and Needs." The National Academies: Forensic Science Needs Committee, 2008; http://www7.nationalacademies.org/stl/June%20Forensics%20Hanzlick.pdf.

Hanzlick R and Combs D. "Medical examiner and coroner systems: history and trends." *The Journal of the American Medical Association* **1998**, *279*(11):870-874.

Hanzlick R and Parrish RG. "The Role of Medical Examiners and Coroners in Public Health Surveillance and Epidemiologic Research." *Annual Review of Public Health* **1996**, *17*(1):383-409; doi:10.1146/annurev.pu.17.050196.002123.

Hao C, Zhao X, Tabe S, and Yang P. "Optimization of a Multiresidual Method for the Determination of Waterborne Emerging Organic Pollutants Using Solid-Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry and Isotope Dilution Mass Spectrometry." *Environmental Science & Technology* **2008**, *42*(11):4068-4075.

Hao C, Zhao X, and Yang P. "GC-MS and HPLC-MS analysis of bioactive pharmaceuticals and personal-care products in environmental matrices." *Trends in Analytical Chemistry* **2007**, *26*(6):569-580; doi:10.1016/j.trac.2007.02.011.

Hao CY, Clement R, and Yang P. "Liquid chromatography-tandem mass spectrometry of bioactive pharmaceutical compounds in the aquatic environment - a decade's activities." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1247-1257; doi:10.1007/s00216-006-0956-6.

Hao CY, Lissemore L, Nguyen B, Kleywegt S, Yang P, and Solomon K. "Determination of pharmaceuticals in environmental waters by liquid chromatography/electrospray ionization/tandem mass spectrometry." *Analytical and Bioanalytical Chemistry* **2006**, *384*(2):505-513; doi:10.1007/s00216-005-0199-y.

Hapeshi E, Achilleos A, Vasquez MI, Michael C, Xekoukoulotakis NP, Mantzavinos D*, et al.* "Drugs degrading photocatalytically: kinetics and mechanisms of ofloxacin and atenolol removal on titania suspensions." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.11.044.

HapMap "International HapMap Project." Web Page maintained by The International HapMap Consortium 2008, http://www.hapmap.org/.

Haque MM and Muneer M. "Photodegradation of norfloxacin in aqueous suspensions of titanium dioxide." *Journal of Hazardous Materials* **2007**, *145*(1-2):51-57.

Harada A, Komori K, Nakada N, Kitamura K, and Suzuki Y. "Biological effects of PPCPs on aquatic lives and evaluation of river waters affected by different wastewater treatment levels." *Water Science and Technology* **2008**, *58*(8):1541-1546.

Hardege JD, Duncan J, and Ram JL. "Tricyclic Antidepressants Suppress Spawning and Fertilization in the Zebra Mussel, Dreissena polymorpha." *Comparative Biochemistry and Physiology Part C: Pharmacology, Toxicology and Endocrinology* **1997**, *118*(1):59-64; doi:10.1016/S0742-8413(97)00009-1.

Harden J, Donaldson FP, and Nyman MC. "Concentrations and distribution of 3,3'-dichlorobenzidine and its congeners in environmental samples from Lake Macatawa." *Chemosphere* **2005**, *58*(6):767-777.

Harder A, Escher BI, Landini P, Tobler NB, and Schwarzenbach RP. "Evaluation of Bioanalytical Assays for Toxicity Assessment and Mode of Toxic Action Classification of Reactive Chemicals." *Environmental Science & Technology* **2003**, *37*(21):4962-4970; doi:10.1021/es034197h.

Harder B. "Germs that do a body good: Bacteria might someday keep the doctor away." *Science News* **2002**, *161*(5):72-74.

Harder B. "Double-edged drugs." *Science News* **2004**, *165*(15):230.

Harder B. "A whiff of danger: fragrances hinder cells' removal of other chemicals." *Science News* **2005**, *167*(12):187.

Harding AK, Daston GP, Boyd GR, Lucier GW, Safe SH, Stewart J*, et al.* "Endocrine disrupting chemicals research program of the U.S. Environmental Protection Agency: summary of a peer-review report." *Environmental Health Perspectives* **2006**, *114*(8):1276-1282; doi:10.1289/ehp.8875.

Hargrave BT, Cranford P, Dowd M, Grant J, McGladdery S, and Burridge LE. "A Scientific Review of the Potential Environmental Effects of Aquaculture in Aquatic Ecosystems Volume I: Far-field Environmental Effects of Marine Finfish Aquaculture; Ecosystem Level Effects of Marine Bivalve Aquaculture; Chemical Use of marine Finfish Aquaculture in Canada: A Review of Current Practices and Possible Environmental Effects." Fisheries and Oceans Canada, Canadian Technical Report of Fisheries and Aquatic Sciences 2450, 2003, http://www.govdocs.aquake.org/cgi/content/abstract/2004/410/4100140.

Hargrave BT, Doucette LI, Haya K, Friars FS, and Armstrong SM. "A micro-dilution method for detecting oxytetracycline-resistant bacteria in marine sediments from salmon and mussel aquaculture sites and an urbanized harbour in Atlantic Canada." *Marine Pollution Bulletin* **2008**, *56*(8):1439-1445; doi:10.1016/j.marpolbul.2008.04.044.

Hari AC, Paruchuri RA, Sabatini DA, and Kibbey TCG. "Effects of pH and Cationic and Nonionic Surfactants on the Adsorption of Pharmaceuticals to a Natural Aquifer Material." *Environmental Science & Technology* **2005**, *39*(8):2592-2598; doi:10.1021/es048992m.

Harikrishnan T, Singaram G, Bo J, and Wang K. "The effect of 17β estradiol on the immunocompetence of Japanese sea bass Lateolabrax japonicus." *Environmental Toxicology and Chemistry* **2009**, *28*(8):1722-1731; doi:10.1897/08-642.1.

Harkinson J. 2009, "Sludge happens." 7 pp; http://www.motherjones.com/environment/2009/05/sludge-happens?page=1.

Harmon K. 2009, "Saving Face: How Safe Are Cosmetics and Body Care Products?" Scientific American, http://www.scientificamerican.com/article.cfm?id=how-safe-are-cosmetics.

Harmon SM. "Effects of Pollution on Freshwater Organisms." *Water Environment Research* **2009**, *80*(10):1892-1917; doi:10.2175/106143008X328851.

Harper JWF, Floyd-Smith T, and Yi T. "Chemical Processes during Biological Wastewater Treatment." in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press; Boca Raton, FL, 2007, Chapter 16, pp 363-382; http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Treatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#PPR8,M1.

Harper S and Sinha P. "Tackling Emerging Contaminants at POTWs." *Journal of Water Management* **2007**, *2*(1):1-12.

Harries JE, Sheahan DA, Jobling S, Matthiessen P, Neall P, Routledge EJ*, et al.* "A survey of estrogenic activity in United Kingdom inland waters." *Environmental Toxicology and Chemistry* **1996**, *15*(11):1993-2002; doi:10.1897/1551-5028(1996)015<1993:ASOEAI>2.3.CO;2.

Harries JE, Sheahan DA, Jobling S, Matthiessen P, Neall P, Sumpter JP*, et al.* "Estrogenic activity in five United Kingdom rivers detected by measurement of vitellogenesis in caged male trout." *Environmental Toxicology and Chemistry* **1997**, *16*(3):534-542; doi:10.1897/1551-5028(1997)016<0534:EAIFUK>2.3.CO;2.

Harrington RV. "Pharmaceuticals in disasters." in *Disaster Medicine*, 2nd ed.; Hogan DE and Burstein JL, Eds., Lippincott Williams & Wilkins; 2006, 6, pp 56-63; http://books.google.com/books?hl=en&lr=&id=hgLccSb8DIUC&oi=fnd&pg=PA56&dq=destruction+disposal+pharmaceutical&ots=lI_rdF1h2k&sig=wVW3_m_Jtw4xwtqKMswc2o-0v1Q#PPA1,M1.

Harris DW, Karandikar DS, Spencer MG, Leach RH, Bower AC, and Mander GA. "Returned-medicines campaign in Birmingham."

The Lancet **1979**, *313*(8116):599-601; doi:10.1016/S0140-6736(79)91020-1.

Harris G. "Drug making's move abroad stirs concerns." The New York Times, 2009, 19 January http://www.nytimes.com/2009/01/20/health/policy/20drug.html?_r=2.

Harrison BR, Peters BG, and Bing MR. "Comparison of surface contamination with cyclophosphamide and fluorouracil using a closed-system drug transfer device versus standard preparation techniques." *American Journal of Health-System Pharmacy* **2006**, *63*(18):1736-1744; doi:10.2146/ajhp050258.

Harrison EZ, Oakes SR, Hysell M, and Hay A. "Organic chemicals in sewage sludges." *Science of the Total Environment* **2006**, *367*(2-3):481-497; doi:10.1016/j.scitotenv.2006.04.002.

Hartemann P. "An approach to evaluating the emerging effects of drug residues in water." *Environment, Risques & Sante* **2006**, *5*(4):307-310.

Hartig C and Jekel M. "Analytik aromatischer sulfonamide in biologischen und aquatischen matrizes." *Vom Wasser* **2001**, *96*:131-158.

Hartig C, Storm T, and Jekel M. "Detection and identification of sulphonamide drugs in municipal waste water by liquid chromatography coupled with electrospray ionisation tandem mass spectrometry." *Journal of Chromatography A* **1999**, *854*(1-2):163-173; doi:10.1016/S0021-9673(99)00378-7.

Hartley TW. "Water Reuse: Understanding Public Perception and Participation." Water Environment Research Foundation (WERF), 2003, 172 pp.

Hartmann A. "Determination of the fluoroquinolone antibiotic ciprofloxacin in hospital and municipal water." presented at Soc Environmental Toxicology and Chemistry, November, at San Francisco, CA, 1997.

Hartmann A. "Drug load of hospital wastewater and its ecotoxicological relevance." Doctoral Dissertation, Eidgenöessische Technische Hochschule Zuerich, Zürich, Switzerland, 1998. 123 pp.

Hartmann A, Alder AC, Koller T, and Widmer RM. "Identification of fluoroquinolone antibiotics as the main source of umuC genotoxicity in native hospital wastewater." *Environmental Toxicology and Chemistry* **1998**, *17*(3):377-382; doi:10.1897/1551-5028(1998)017<0377:IOFAAT>2.3.CO;2.

Hartmann A, Golet EM, Gartiser S, Alder AC, Koller T, and Widmer RM. "Primary DNA damage but not mutagenicity correlates with ciprofloxacin concentrations in German hospital wastewaters." *Archives of Environmental Contamination and Toxicology* **1999**, *36*(2):115-119; doi:10.1007/s002449900449.

Hartmann J, Bartels P, Mau U, Witter M, Tümpling Wv, Hofmann J*, et al.* "Degradation of the drug diclofenac in water by sonolysis in presence of catalysts." *Chemosphere* **2008**, *70*(3):453-461; doi:10.1016/j.chemosphere.2007.06.063.

Hartmann S, Lacorn M, and Steinhart H. "Natural occurrence of steroid hormones in food." *Food Chemistry* **1998**, *62*(1):7-20; doi:10.1016/S0308-8146(97)00150-7.

Haruvy N and Shalhevet S. "Assessment of Groundwater Contamination Risk from Nonchemical Stressors in Wastewater." in *Real-Time and Deliberative Decision Making*, Springer Netherlands; 2009, pp 435-444; doi:10.1007/978-1-4020-9026-4_28; http://www.springerlink.com/content/j2mv402k673m6846/.

Harvey PW. "Parabens, oestrogenicity, underarm cosmetics and breast cancer: a perspective on a hypothesis." *Journal of Applied Toxicology* **2003**, *23*(5):285-288; doi:10.1002/jat.946.

Harvey PW and Everett DJ. "Significance of the detection of esters of p-hydroxybenzoic acid (parabens) in human breast tumours." *Journal of Applied Toxicology* **2004**, *24*:1-4; doi:10.1002/jat.957.

Harvey PW and Everett DJ. "Regulation of endocrine-disrupting chemicals: Critical overview and deficiencies in toxicology and risk assessment for human health." *Best Practice & Research Clinical Endocrinology & Metabolism* **2006**, *20*(1):145-165; doi:10.1016/j.beem.2005.09.008.

Hashimoto S, Ueda Y, Kurihara R, and Shiraishi F. "Comparison of the estrogenic activities of seawater extracts from Suruga Bay, Japan, based on chemical analysis or bioassay." *Environmental Toxicology and Chemistry* **2007**, *26*(2):279-286; doi:10.1897/05-689R1.1.

Hashimoto S, Watanabe E, Ikeda M, Terao Y, Strüssmann C, Inoue M*, et al.* "Effects of Ethinylestradiol on Medaka (Oryzias latipes) as Measured by Sperm Motility and Fertilization Success." *Archives of Environmental Contamination and Toxicology* **2009**, *56*(2):253-259; doi:10.1007/s00244-008-9183-9.

Hashimoto T and Murakami T. "Removal and degradation characteristics of natural and synthetic estrogens by activated sludge in batch experiments." *Water Research* **2009**, *43*(3); doi:10.1016/j.watres.2008.10.051.

Hashimoto T, Onda K, Nakamura Y, Tada K, Miya A, and Murakami T. "Comparison of natural estrogen removal efficiency in the conventional activated sludge process and the oxidation ditch process." *Water Research* **2007**, *41*(10):2117-2126; doi:10.1016/j.watres.2007.02.029.

Hashimoto T, Takahashi K, and Murakami T. "Characteristics of estrogen decomposition by ozonation." *Water Science and Technology* **2006**, *54*(10):87-93; doi:10.2166/wst.2006.806.

Haskell SRR, Ormond CJ, Occhipinti LP, and Powers EL. "Waste management: expired drugs." *Journal of the American Veterinary Medical Association* **2003**, *223*(1):51-52; doi:10.2460/javma.2003.223.51.

Hasmall SC and Roberts RA. "The Perturbation of Apoptosis and Mitosis by Drugs and Xenobiotics." *Pharmacology & Therapeutics* **1999**, *82*(1):63-70; doi:10.1016/S0163-7258(98)00058-8.

Hasselberg L, Westerberg S, Wassmur B, and Celander MC. "Ketoconazole, an antifungal imidazole, increases the sensitivity of rainbow trout to 17α-ethynylestradiol exposure." *Aquatic Toxicology* **2008**, *86*(2):256-264; doi:10.1016/j.aquatox.2007.11.006.

Hassett JP. "Dissolved natural organic matter as a microreactor." *Science* **2006**, *311*(5768):1723-1724; doi:10.1126/science.1123389.

Hata H, Saeki S, Kimura T, Sugahara Y, and Kuroda K. "Adsorption of Taxol into Ordered Mesoporous Silicas with Various Pore Diameters." *Chemistry of Materials* **1999**, *11*(4):1110-1119; doi:10.1021/cm981061n.

Hathcock JN, Talbott SM, and Zeisel SH. "Dietary Supplements: What Is in the Public's Best Interest?" *Science* **1999**, *286*(5448):2269-2270; doi:10.1126/science.286.5448.2269c.

Haubruge E, Petit F, and Gage MJ. "Reduced sperm counts in guppies (Poecilia reticulata) following exposure to low levels of tributyltin and bisphenol A." *Proceedings of the Royal Society of London Series B: Biological Sciences* **2000**, *267*(1459):2333-2337; doi:10.1098/rspb.2000.1288.

Haug T and Hals PA. "Pharmacokinetics of oxytetracyline in Arctic charr (Salvelinus alpinus L.) in freshwater at low temperature." *Aquaculture* **2000**, *186*(3-4):175-191; doi:10.1016/S0044-8486(99)00376-2.

Haug T and Hals PA. "Pharmacokinetics of oxytetracyline in Arctic charr (Salvelinus alpinus L.) in freshwater at low temperature." *Aquaculture* **2000**, *186*(3-4):175-191; doi:10.1016/S0044-8486(99)00376-2.

Hauser JM, Chen L, and Paice J. "Down the Drain: The Cost of Medications Wasted in Hospice." *Journal of Pain and Symptom Management* **2006**, *31*(5):379-380; doi:10.1016/j.jpainsymman.2005.12.017.

Hauser R and Calafat AM. "Phthalates and human health." *Occupational Environ Med* **2005**, *62*(11):806-818; doi:10.1136/oem.2004.017590.

Hauser R, Duty S, Godfrey-Bailey L, and Calafat AM. "Medications as a source of human exposure to phthalates." *Environmental Health Perspectives* **2004**, *112*(6):751-753; doi:10.1289/ehp.6804.

Hauser R, Meeker JD, Singh NP, Silva MJ, Ryan L, Duty S*, et al.* "DNA damage in human sperm is related to urinary levels of phthalate monoester and oxidative metabolites." *Human Reproduction* **2007**, *22*(3):688-695; doi:10.1093/humrep/del428.

Hauss DJ. "Lipid-based systems for oral drug delivery: Enhancing the bioavailability of poorly water soluble drugs." *American Pharmaceutical Review* **2002**, *5*(4):22-28.

Hauss DJ. "Oral Lipid-based Drug Delivery - A Case of Implementation Failing to Keep Up With Innovation?" *American Pharmaceutical Review* **2006**, *September/October*.

Hauss DJ. "Oral lipid-based formulations." *Advanced Drug Delivery Reviews* **2007**, *59*(7):667-676; doi:10.1016/j.addr.2007.05.006.

Hauss DJ, Ed., "Oral Lipid-Based Formulations: Enhancing the bioavailability of poorly water-soluble drugs." CRC Press, 2007, 339

pp; http://books.google.com/books?id=Tf-OQQCBU3UC&dq=Enhancing+the+bioavailability+of+poorly+water+soluble+drugs&source=gbs_summary_s&cad=0.

Havlikova L, Novakova L, Matysova L, Sicha J, and Solich P. "Determination of estradiol and its degradation products by liquid chromatography." *Journal of Chromatography A* **2006**, *1119*(1-2):216-223; doi:10.1016/j.chroma.2006.01.085.

Hawkins DR, Elsom LF, Kirkpatrick D, Ford RA, and Api AM. "Dermal absorption and disposition of musk ambrette, musk ketone and musk xylene in human subjects." *Toxicology Letters* **2002**, *131*(3):147-151; doi:10.1016/S0378-4274(01)00548-3.

Hawkins DR and Ford RA. "Dermal absorption and disposition of musk ambrette, musk ketone and musk xylene in rats." *Toxicology Letters* **1999**, *111*(1):95-103; doi:10.1016/S0378-4274(99)00171-X.

Hawksworth G, Wright D, and Chrystyn H. "A detailed analysis of the day to day unwanted medicinal products returned to community pharmacies for disposal." *Journal of Social and Administrative Pharmacy* **1996**, *3*(4):215-222.

Hay AG, Dees PM, and Sayler GS. "Growth of a bacterial consortium on triclosan." *FEMS Microbiology Ecology* **2001**, *36*(2-3):105-112; doi:10.1016/S0168-6496(01)00127-1.

Hayashi Y, Heckmann L-H, Callaghan A, and Sibly R. "Reproduction recovery of the crustacean Daphnia magna after chronic exposure to ibuprofen." *Ecotoxicology* **2008**, *17*(4):246-251; doi:10.1007/s10646-008-0191-3.

Hayes DP. "Nutritional hormesis." *European Journal of Clinical Nutrition* **2006**, *61*(2):147-159; doi:10.1038/sj.ejcn.1602507.

Hayes JD and Michael M. "Molecular basis for the contribution of the antioxidant responsive element to cancer chemoprevention." *Cancer Letters* **2001**, *174*(2):103-113; doi:10.1016/S0304-3835(01)00695-4.

Hayes JM, Eichman J, Katz T, and Gilewicz R. "Stability of florfenicol in drinking water." *Journal of AOAC International* **2003**, *86*(1):22-29.

Hayes PL, Gibbs-Davis JM, Musorrafiti MJ, Mifflin AL, Scheidt KA, and Geiger FM. "Environmental Biogeochemistry Studied by Second-Harmonic Generation: A Look at the Agricultural Antibiotic Oxytetracycline." *Journal of Physical Chemistry C* **2007**, *111*(25):8796-8804; doi:10.1021/jp0672149.

Hayes S, Newland L, Morgan K, and Dean K. "Septic-tank and agricultural nonpoint source pollution within a rural watershed." *Toxicological and Environmental Chemistry* **1990**, *26*(1-4):137-155.

Hayton WL. "Considerations in Compartmental Pharmacokinetic Modeling in Fish." in *Xenobiotics in Fish*, Smith DJ, Gingerich WH and Beconi-Barker MG, Eds., Kluwer Academic/Plenum Publishers; New York, 1999, Chapter 5, pp 55-72; http://bookshop.blackwell.co.uk/jsp/id/Xenobiotics_in_Fish/9780306461897#synopsis.

Hazarika P, Jickells SM, Wolff K, and Russell DA. "Imaging of Latent Fingerprints through the Detection of Drugs and Metabolites." *Angewandte Chemie International Edition* **2008**, *47*(52):10167-10170; doi:10.1002/anie.200804348.

Hazra A. "Wastage of drugs by consumers - an unacceptable behavior." *Rational Drug Bulletin* **2001**, *11*(4):Editorial, 1-8.

HCWH Europe. "Preventing damage to the environment from pharmaceuticals: a primer." Health Care Without Harm Europe, 2007, 6 pp; http://www.noharm.org/details.cfm?type=document&id=1860.

He BL and Shi Y. "Comprehensive Chiral HPLC Method Development for Pharmaceutical Compounds During Late Stage Development." *American Pharmaceutical Review* **2008**, *11*(1):47-52.

He QH, Wang ZX, Cao XX, Chen HW, and Ke YF. "Determination of menadione sodium bisulfite in pharmaceutical preparations by flow-injection on-line photochemical spectrofluorometry." *Analytical Sciences* **2001**, *17*(10):1209-1212; doi:10.2116/analsci.17.1209.

He Y, Chen G, Ji Z, and Li S. "Combined UF-NF membrane system for filtering erythromycin fermentation broth and concentrating the filtrate to improve the downstream efficiency." *Separation and Purification Technology* **2009**, *66*(2):390-396; doi:10.1016/j.seppur.2008.12.007.

Health Canada "It's Your Health – Proper Use and Disposal of Medication." 2004, http://www.hc-sc.gc.ca/iyh-vsv/med/disposal-defaire_e.html.

Health Canada, AgriculturE and Agri-Food Canada, Environment Canada, Ontario Ministry of Environment, Ontario Ministry of

Agriculture Food and Rural Affairs, Walkerton Clean Water Centre*, et al.* "Pharmaceuticals and personal care products in the Canadian environment: Research and policy directions." in PPCP Workshop Final Report, Ontario, Canada, 5-7 March, 2007, NWRI Scientific Assessment Report Series No. 8 61 pp; http://dsp-psd.pwgsc.gc.ca/collection_2008/ec/En13-2-8-2007E.pdf.

Health Canada and Environment Canada. "Draft screening assessment for cyclotetrasiloxane, octamethyl (D4) CAS # 556-67-2." Govenment of Canada, May 2008. 59 pp.

Health Canada and Environment Canada. "Draft screening assessment for decamethylcyclopentasiloxane (D5) CAS # 541-02-6." Govenment of Canada, May 2008. 63 pp.

Health Canada and Environment Canada. "Draft screening assessment for dodecamethylcyclohexasiloxane (D6) CAS # 540-97-6." Govenment of Canada, May 2008. 53 pp.

Health Canada and Environment Canada. "Risk management scope for cyclotetrasiloxane, octamethyl- (D4) cyclopentasiloxane, decamethyl- (D5)cyclohexasiloxane, dodecamethyl (D6)." Govenment of Canada, May 2008. 9 pp.

Health Care Without Harm. "Non-Incineration Medical Waste Treatment Technologies: A Resource for Hospital Administrators, Facility Managers, Health Care Professionals, Environmental Advocates, and Community Members." Health Care Without Harm, August, 2001, 118 pp; http://72.32.87.20/lib/downloads/waste/Non-Incineration_Technologies.pdf.

Heath E, Kosjek T, Andersen HR, Holten Lützhøft HC, Adolfson Erici M, Coquery M*, et al.* "Inter-laboratory exercise on steroid estrogens in aqueous samples." *Environmental Pollution* **2009**, *In Press*; doi:10.1016/j.envpol.2009.10.029.

Heath E, Kosjek T, and Kompare B. "Raziskave prisotnosti ostankov zdravilnih učinkovin v odpadnih in površinskih vodah." IJS DP-9458 L1-6552-0106, Ljubljana, October, 2006, http://www.norman-network.com/public/library/docs/ijs_dp_94588pharmaceutical_residues.pdf.

Heath RJ and Rock CO. "A triclosan-resistant bacterial enzyme." *Nature* **2000**, *406*:145-146; doi:10.1038/35018162.

Heath RJ, Rubin JR, Holland DR, Zhang E, Snow ME, and Rock CO. "Mechanism of Triclosan Inhibition of Bacterial Fatty Acid Synthesis." *Journal of Biological Chemistry* **1999**, *274*(16):11110-11114; doi:10.1074/jbc.274.16.11110.

Heberer T "Complete list of publications." http://www.tu-berlin.de/~lmc/forschung/heberer/publik.htm.

Heberer T. "Occurrence, fate, and removal of pharmaceutical residues in the aquatic environment: a review of recent research data." *Toxicology Letters* **2002**, *131*(1):5-17; doi:10.1016/S0378-4274(02)00041-3.

Heberer T. "Tracking persistent pharmaceutical residues from municipal sewage to drinking water." *Journal of Hydrology* **2002**, *266*(3):175-189; doi:10.1016/S0022-1694(02)00165-8.

Heberer T. "Occurrence, Fate, and Assessment of Polycyclic Musk Residues in the Aquatic Environment of Urban Areas - A Review." *Acta Hydrochimica et Hydrobiologica* **2002**, *30*(5-6):227-243; doi:10.1002/aheh.200390005.

Heberer T. "Verhalten von Arzneimittelrückständen bei der Abwasserreinigung." in *Heil-Lasten*, Frimmel FH and Müller MB, Eds., Springer; Berlin Heidelberg, Germany, 2006, pp 175-205; doi:10.1007/3-540-33638-9_10; http://dx.doi.org/10.1007/3-540-33638-9_10.

Heberer T. "Removal of pharmaceuticals in wastewater and drinking water treatments – Removal of pharmaceuticals during drinking water production." in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science; Amsterdam, The Netherlands, 2007, Chapter 4.3, pp 475-514; http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Heberer T. "Organic Compounds used in Aquaculture." in *Hormones and Pharmaceuticals Generated by Concentrated Animal Feeding Operations*, Pruden A and Shore LS, Eds., Springer; 2009, Chapter 12, pp 95-114; doi:10.1007/978-0-387-92834-0_12; http://dx.doi.org/10.1007/978-0-387-92834-0_12.

Heberer T and Adam M. "Occurrence, Fate, and Removal of Pharmaceutical Residues in the Aquatic Environment: An Extended Review of Recent Research Data." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Heberer T, Butz S, and Stan H-J. "Analysis of phenoxycarboxylic acids and other acidic compounds in tap, ground, surface and sewage water at the low Ng/L-level." *International Journal of Environmental Analytical Chemistry* **1995**, *58*(1-4):43-53.

Heberer T, Dunnbier U, Reilich CH, and Stan HJ. "Detection of drugs and drug metabolites in ground water samples of a drinking water treatment plant." *Fresenius Environmental Bulletin* **1997**, *6*(7-8):438-443.

Heberer T and Feldmann D. "Removal of pharmaceutical residues from contaminated raw water sources by membrane filtration." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, pp.

Heberer T and Feldmann D. "Contribution of effluents from hospitals and private households to the total loads of diclofenac and carbamazepine in municipal sewage effluents - modeling versus measurements." *Journal of Hazardous Materials* **2005**, *122*(3):211-218; doi:10.1016/j.jhazmat.2005.03.007.

Heberer T and Feldmann D. "Corrigendum to "Contribution of effluents from hospitals and private households to the total loads of diclofenac and carbamazepine in municipal sewage effluents--Modeling versus measurements" [J. Hazard. Mater. 122 (2005) 211]." *Journal of Hazardous Materials* **2005**, *127*(1-3):249-249; doi:10.1016/j.jhazmat.2005.09.001.

Heberer T and Feldmann D. "Removal of pharmaceutical residues from contaminated raw water sources by membrane filtration." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 27, pp 437-453; doi:10.1007/978-3-540-74664-5_27; http://www.springerlink.com/content/t706uq4j5r452l52/?p=9ed3dcab782d422fa25c2de402461f54&pi=26.

Heberer T, Feldmann D, Adam M, and Reddersen K. "Investigation of Pharmaceutical Residues in Hospital Effluents, in Ground- and Drinking Water from Bundeswehr Facilities, and their Removal During Drinking Water Purification." Department of Defense (DODXA), Ed., 1 November, 1999, 314 pp; http://www.stormingmedia.us/60/6075/A607534.html.

Heberer T, Feldmann D, Reddersen K, Altmann HJ, and Zimmermann T. "Production of drinking water from highly contaminated surface waters: Removal of organic, inorganic and microbial contaminants applying mobile membrane filtration units." *Acta Hydrochimica et Hydrobiologica* **2002**, *30*(1):24-33; doi:10.1002/1521-401X(200207)30:1<24::AID-AHEH24>3.0.CO;2-O.

Heberer T, Fuhrmann B, Schmidt-Baumler K, Tsipi D, Koutsouba V, and Hiskia A. "Occurrence of pharmaceutical residues in sewage, river, ground, and drinking water in Greece and Berlin (Germany)." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 4, pp 70-83; doi:10.1021/bk-2001-0791.ch004; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Heberer T, Gramer S, and Stan H-J. "Occurrence and distribution of organic contaminants in the aquatic system in Berlin. Part III. Determination of synthetic musks in Berlin surface water applying solid-phase microextraction (SPME) and gas chromatography-mass spectrometry (GC/MS)." *Acta Hydrochimica et Hydrobiologica* **1999**, *27*(3):150-156; doi:10.1002/(SICI)1521-401X(199905)27:3<150::AID-AHEH150>3.0.CO;2-H.

Heberer T, Jürgensen S, and Fromme H. "Synthetic Musks in the Aquatic System of Berlin as an Example for Urban Ecosystems." in *Synthetic Musk Fragrances in the Environment*, Rimkus GG, Ed., Springer-Verlag; Heidelberg, 2004, pp 123-150; http://dx.doi.org/10.1007/b14122.

Heberer T, Massmann G, Fanck B, Taute T, and Dünnbier U. "Behaviour and redox sensitivity of antimicrobial residues during bank filtration." *Chemosphere* **2008**, *73*(4):451-460; doi:10.1016/j.chemosphere.2008.06.056.

Heberer T, Mechlinski A, and Fanck B. "Fate of Pharmaceutical Residues during Ground Water Recharge: Final Results from the Nasri Project (2002-2005)." in 6th International Conference on Pharmaceuticals and Enocrine Disrupting Chemicals in Water, Costa Mesa, CA, 23 October, 2007, 1 page pp; http://ngwa.confex.com/ngwa/pharm6/techprogram/P4485.HTM.

Heberer T, Mechlinski A, Fanck B, Knappe A, Massmann G, Pekdeger A*, et al.* "Field studies on the fate and transport of pharmaceutical residues in bank filtration." *Ground Water Monitoring & Remediation* **2004**, *24*(2):70-77; doi:10.1111/j.1745-6592.2004.tb00714.x.

Heberer T, Reddersen K, and Mechlinski A. "From municipal sewage to drinking water: fate and removal of pharmaceutical residues in the aquatic environment in urban areas." *Water Science and Technology* **2002**, *46*(3):81-88.

Heberer T, Schmidt-Bäumler K, and Stan H-J. "Occurrence and Distribution of Organic Contaminants in the Aquatic System in Berlin. Part I: Drug Residues and other Polar Contaminants in Berlin Surface and Groundwater." *Acta Hydrochimica et*

Hydrobiologica **1998**, *26*(5):272-278; doi:10.1002/(SICI)1521-401X(199809)26:5<272::AID-AHEH272>3.0.CO;2-O.

Heberer T and Stan H-J. "Determination of dichlorprop, mecoprop, clofibric acid and naphthyl acetic in soil at the low ppb-level by GC/MS using selected ion monitoring." *Journal of AOAC International* **1996**, *79*:1428-1433.

Heberer T and Stan HJ. "[Occurrence of polar organic contaminants in Berlin drinking water] Vorkommen von polaren organischen kontaminanten im Berliner trinkwasser." *Vom Wasser* **1996**, *86*:19-31.

Heberer T and Stan HJ. "Determination of clofibric acid and N-(phenylsufonyl)-sarcosine in sewage, river and drinking water." *International Journal of Environmental Analytical Chemistry* **1997**, *67*(1-4):113-124; doi:10.1080/03067319708031398.

Heberer T and Ternes T. "Residues of Pharmaceuticals from Human Use." in *Organic Pollutants in the Water Cycle*, Reemtsma T and Jekel M, Eds., Wiley-VCH; Weinheim, Germany, 2006, Chapter 2, pp 41-63; doi:10.1002/352760877X.ch2; http://www3.interscience.wiley.com/cgi-bin/summary/112770853/SUMMARY.

Heberer T, These A, and Grosch UA. "Occurrence and fate of synthetic musks in the aquatic system of urban area - polycyclic and nitro musks as environmental pollutants in surface waters, sediments, and aquatic biota." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 8, pp 142-155; doi:10.1021/bk-2001-0791.ch008; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Heberer T, Verstraeten IM, Meyer MT, Mechlinski A, and Reddersen K. "Occurrence and fate of pharmaceuticals during bank filtration – preliminary results from investigations in Germany and the United States." *Journal of Contemporary Water Research & Education* **2001**:4-17.

Hébert N, Gagné F, Cejka P, Cyr D, Marcogliese DJ, Blaise C*, et al.* "The effects of a primary-treated municipal effluent on the immune system of rainbow trout (Oncorhynchus mykiss): Exposure duration and contribution of suspended particles." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2008**, *148*(3):258-264; doi:10.1016/j.cbpc.2008.06.007.

Heckmann L-H, Callaghan A, Hooper HL, Connon R, Hutchinson TH, Maund SJ*, et al.* "Chronic toxicity of ibuprofen to Daphnia magna: Effects on life history traits and population dynamics." *Toxicology Letters* **2007**, *172*(3):137-145; doi:10.1016/j.toxlet.2007.06.001.

Heckmann L-H, Connon R, Hutchinson T, Maund S, Sibly R, and Callaghan A. "Expression of target and reference genes in Daphnia magna exposed to ibuprofen." *BMC Genomics* **2006**, *7*(1):175; doi:10.1186/1471-2164-7-175.

Heckmann L-H, Sibly R, Connon R, Hooper H, Hutchinson T, Maund S*, et al.* "Systems biology meets stress ecology: linking molecular and organismal stress responses in Daphnia magna." *Genome Biology* **2008**, *9*(2):R40-40.14; doi:10.1186/gb-2008-9-2-r40.

Hedges JI, Eglinton G, Hatcher PG, Kirchman DL, Arnosti C, Derenne S*, et al.* "The molecularly-uncharacterized component of nonliving organic matter in natural environments." *Organic Geochemistry* **2000**, *31*(10):945-958; doi:10.1016/S0146-6380(00)00096-6.

Hegelund T, Ottosson K, Radinger M, Tomberg P, and Celander MC. "Effects of the antifungal imidazole ketoconozole on CYP1A and CYP3A in rainbow trout and killifish." *Environmental Toxicology and Chemistry* **2004**, *23*(5):1326-1334; doi:10.1897/03-155.

Hegreness M, Shoresh N, Damian D, Hartl D, and Kishony R. "Accelerated evolution of resistance in multidrug environments." *Proceedings of the National Academy of Sciences of the United States of America* **2008**, *105*(37):13977-13981; doi:10.1073/pnas.0805965105.

Hegstad M. "Research Bolsters EPA View on Low Risks from Drugs in Water." Water Policy Report, 28 April, 2008.

Heidler J. "Environmental fate of persistent biocides and human exposure." Doctoral Dissertation, The Johns Hopkins University, 2008. 153 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2303925,FM=9,SEARCH=MD.GenericSearch.

Heidler J and Halden RU. "Mass balance assessment of triclosan removal during conventional sewage treatment." *Chemosphere* **2007**, *66*(2):362-369; doi:10.1016/j.chemosphere.2006.04.066.

Heidler J and Halden RU. "Meta-Analysis of Mass Balances Examining Chemical Fate during Wastewater Treatment." *Environmental Science & Technology* **2008**, *42*(17):6324-6332; doi:10.1021/es703008y.

Heidler J, Sapkota A, and Halden RU. "Partitioning, Persistence, and Accumulation in Digested Sludge of the Topical Antiseptic Triclocarban during Wastewater Treatment." *Environmental Science & Technology* **2006**, *40*(11):3634-3639.

Heim S, Schwarzbauer J, Kronimus A, Littke R, Woda C, and Mangini A. "Geochronology of anthropogenic pollutants in riparian wetland sediments of the Lippe River (Germany)." *Organic Geochemistry* **2004**, *35*(11-12):1409-1425; doi:10.1016/j.orggeochem.2004.03.008.

Heinzmann B. "Occurrence and behaviour of trace substances in the partly closed water cycles of berlin and its relevance to drinking water." *Technical Note of National Institute for Land and Infrastructure Management* **2004**, *186*:97-110.

Heinzmann B. "Occurrence and behaviour of trace substances in the partly closed water cycles of berlin and its relevance to drinking water." in International Workshop on Rainwater and Reclaimed Water for Urban Sustainable Water Use, Tokyo, Japan, 9-10 June, 2005, http://www.recwet.t.u-tokyo.ac.jp/furumailab/crest/workshop05/june10pm_1.pdf.

Heise J, Holtge S, Schrader S, and Kreuzig R. "Chemical and biological characterization of non-extractable sulfonamide residues in soil." *Chemosphere* **2006**, *65*(11):2352-2357; doi:10.1016/j.chemosphere.2006.04.084.

Heitman J. "Cell biology. A fungal Achilles' heel." *Science* **2005**, *309*(5744):2175-2176; doi:10.1126/science.1119321.

Heitz DC. "Some effects of testosterone on cichlid fish, Cichlosoma bimaculatum (Linnaeus)." Masters Dissertation, 1967. https://ir.library.oregonstate.edu/dspace/handle/1957/6742.

Hektoen H, Berge JA, Hormazabal V, and Yndestad M. "Persistence of antibacterial agents in marine sediments." *Aquaculture* **1995**, *133*(3-4):175-184; doi:10.1016/0044-8486(94)00310-K.

Heller DN and Nochetto CB. "Development of multiclass methods for drug residues in eggs: Silica SPE cleanup and LC-MS/MS analysis of ionophore and macrolide residues." *Journal of Agricultural and Food Chemistry* **2004**, *52*(23):6848-6856.

Helma C, Eckl P, Gottmann E, Kassie F, Rodinger W, Steinkellner H*, et al.* "Genotoxic and ecotoxic effects of groundwaters and their relation to routinely measured chemical parameters." *Environmental Science & Technology* **1998**, *32*(12):1799-1805; doi:10.1021/es971049g.

Helmig EG, Fettig JD, Cordone L, Schoenberg TH, DeMarco MJ, and Suri RPS. "Api removal from pharmaceutical manufacturing wastewater results of process development, pilot-testing, and scale-up." *Proceedings of the Water Environment Federation* **2005**, *2005*:207-226; doi:10.2175/193864705783867594.

Helmuth L. "One mouse's meat is another one's poison." *Science* **1999**, *285*(5431):1190-1191; doi:10.1126/science.285.5431.1190b.

Heltsley RM, Becker PR, Kucklick JR, Peck AM, Schantz MM, and Lippa KA. "An estimation of illicit drugs from chemical measurements in municipal wastewater." Chem. Sci. and Technol. Laboratory, National Institute of Standards and Technology, and Energy and Environmental Technologies, 2006, 2 pp; http://www.cstl.nist.gov/projects/proj06.htm, http://www.cstl.nist.gov/projects/fy06/ee0683903.pdf.

Hembrock-Heger A and Bergmann A. "Eintrag von Arzneimitteln und deren Verhalten und Verbleib in der Umwelt – Literaturstudie [Entry of drugs and their behavior and the whereabouts in the environment - literature study]." Landesamt für Natur, Umwelt und Verbraucherschutz Nordrhein-Westfalen, Recklinghausen, Germany, 2007, 357 pp; http://www.lanuv.nrw.de/veroeffentlichungen/fachberichte/fabe2/lanuvfabe2.pdf.

Hemmer D. "Wyoming officials considering Yellowstone pollution fines." Las Vegas Review Journal, 1998, 31 October B.

Hemming JM, Allen HJ, Thuesen KA, Turner PK, Waller WT, Lazorchak JM*, et al.* "Temporal and spatial variability in the estrogenicity of a municipal wastewater effluent." *Ecotoxicology and Environmental Safety* **2004**, *57*(3):303-310; doi:10.1016/S0147-6513(03)00025-3.

Hemming JM, Waller WT, Chow MC, Denslow ND, and Venables B. "Assessment of the estrogenicity and toxicity of a domestic wastewater effluent flowing through a constructed wetland system using biomarkers in male fathead minnows (Pimephales promelas Rafinesque, 1820)." *Environmental Toxicology and Chemistry* **2001**, *20*(10):2268-2275; doi:10.1897/1551-5028(2001)020<2268:AOTEAT>2.0.CO;2.

Hemminger P. "Damming the flow of drugs into drinking water." *Environmental Health Perspectives* **2005**, *113*(10):678-681.

Hemmings SNJ and Hartel PG. "Mineralization of hormones in breeder and broiler litters at different water potentials and temperatures." *Journal of Environmental Quality* **2006**, *35*(3):701-706; doi:10.2134/jeq2005.0303.

Hempel H, Scheffczyk A, Schallnab HJ, Lumaret JP, Alvinerie M, and Römbke J. "Toxicity of four veterinary parasiticides on larvae of the dung beetle Aphodius constans in the laboratory." *Environmental Toxicology and Chemistry* **2006**, *25*(12):3155-3163; doi:10.1897/06-022R2.1.

Henderson KL, Moorman TB, and Coats JR. "Mobility of Tylosin and Enteric Bacteria in Soil Columns." in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press; Boca Raton, FL, 2007, Chapter 7, pp 167-178; http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Treatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#PPR8,M1.

Henderson KLD. "Impact of veterinary antibiotics in the environment." Doctoral Dissertation, Iowa State University, Ames, Iowa, 2008. 142 pp.

Henderson RK, Jimenez-Gonzalez C, Preston C, Constable DJC, and Woodley JM. "EHS & LCA assessment for 7-ACA synthesis. A case study for comparing biocatalytic & chemical synthesis." *Industrial Biotechnology* **2008**, *4*(2):180-192; doi:10.1089/ind.2008.4.180.

Henderson S. "Hospital pharmacy: survey of unwanted medicines [This reference was found to be cited in the work of others but its accuracy could not be verified]." *The Pharmaceutical Journal* **1984**, *232*:603-605.

Hendriksen RS, Mevius DJ, Schroeter A, Teale C, Meunier D, Butaye P*, et al.* "Prevalence of antimicrobial resistance among bacterial pathogens isolated from cattle in different European countries: 2002-2004." *Acta Veterinaria Scandinavica* **2008**, *50*(1):28; doi:10.1186/1751-0147-50-28.

Heneweer M, Houtman R, Poortman J, Groot M, Maliepaard C, and Peijnenburg A. "Estrogenic Effects in the Immature Rat Uterus After Dietary Exposure to Ethinylestradiol and Zearalenone Using a Systems Biology Approach." *Toxicological Sciences* **2007**, *99*(1):303-314; doi:10.1093/toxsci/kfm151.

Heneweer M, Muusse M, Berg Mvd, and Sanderson JT. "Additive estrogenic effects of mixtures of frequently used UV filters on pS2-gene transcription in MCF-7 cells." *Toxicology and Applied Pharmacology* **2005**, *208*(2):170-177; doi:10.1016/j.taap.2005.02.006.

Hennebel T, De Corte S, Vanhaecke L, Vanherck K, Forrez I, De Gusseme B*, et al.* "Removal of diatrizoate with catalytically active membranes incorporating microbially produced palladium nanoparticles." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.10.041.

Hennebruder K, Wennrich R, Mattusch J, Stark H-J, and Engewald W. "Determination of gadolinium in river water by SPE preconcentration and ICP-MS." *Talanta* **2004**, *63*(2):309-316; doi:10.1016/j.talanta.2003.10.053.

Henning PG. "PURE Bioscience Granted US Patent on SDC for Food Treatment." PURE Biosience, 2008; http://sanfrancisco.bizjournals.com/sanfrancisco/prnewswire/press_releases/California/2008/10/30/LATH068.

Henriques IS, Fonseca F, Alves A, Saavedra MJ, and Correia A. "Occurrence and diversity of integrons and β-lactamase genes among ampicillin-resistant isolates from estuarine waters." *Research in Microbiology* **2006**, *157*(10):938-947; doi:10.1016/j.resmic.2006.09.003.

Henry CM. "Nutraceuticals: fad or trend?" *Chemical & Engineering News* **1999**, *77*(48):42-47.

Henry CM. "Antibiotic resistance." *Chemical & Engineering News* **2000**, *78*(10):41-58.

Henry CM. "Special delivery: Alternative methods for delivering drugs improve performance, convenience, and patient compliance." *Chemical & Engineering News* **2000**, *80*(38):49-65.

Henry CM. "Drug delivery." *Chemical & Engineering News* **2002**, *80*(34):39-47.

Henry CM. "Breaching barriers: Protein transduction and similar methods are promising techniques for delivering a wide variety of drugs directly into cells." *Chemical & Engineering News* **2003**, *81*(34):35-43, 55.

Henry CM. "Drawing with mass spec." *Chemical & Engineering News* **2004**, *82*(46):33-35.

Henry J. Kaiser Family Foundation "Total Number of Retail Prescription Drugs Filled at Pharmacies, 2007 (by State)." The Henry H. Kaiser Family Foundation 2009; http://www.statehealthfacts.org/comparemaptable.jsp?ind=265&cat=5.

Henry J. Kaiser Family Foundation "Total Retail Sales for Prescription Drugs Filled at Pharmacies, 2007 (by State)." The Henry H. Kaiser Family Foundation 2009; http://www.statehealthfacts.org/comparemaptable.jsp?ind=266&cat=5.

Henry J. Kaiser Family Foundation "Retail Prescription Drugs Filled at Pharmacies (Annual per Capita), 2007 (by State)." The Henry H. Kaiser Family Foundation 2009; http://www.statehealthfacts.org/comparemaptable.jsp?ind=267&cat=5.

Henry J. Kaiser Family Foundation "Retail Prescription Drugs Filled at Pharmacies (Annual per Capita by Age), 2007 (by State)." The Henry H. Kaiser Family Foundation 2009; http://www.statehealthfacts.org/comparetable.jsp?ind=268&cat=5.

Henry J. Kaiser Family Foundation "Retail Prescription Drugs Filled at Pharmacies (Annual per Capita by Gender), 2007 (by State)." The Henry H. Kaiser Family Foundation 2009; http://www.statehealthfacts.org/comparetable.jsp?ind=269&cat=5.

Henry J. Kaiser Family Foundation "Prescription Drug Trends Fact Sheet - September 2008 Update." The Henry H. Kaiser Family Foundation 2009; http://www.kff.org/rxdrugs/3057.cfm.

Henry J. Kaiser Family Foundation "State Medicaid Fact Sheets." The Henry H. Kaiser Family Foundation 2009; http://www.statehealthfacts.org/medicaid.jsp.

Henry MP, Donlon BA, Lens PN, and Colleran EM. "Use of anaerobic hybrid reactors for treatment of synthetic pharmaceutical wastewaters containing organic solvents." *Journal of Chemical Technology and Biotechnology* **1996**, *66*(3):251-264; doi:10.1002/(SICI)1097-4660(199607)66:3<251::AID-JCTB496>3.0.CO;2-S.

Henry T and Black M. "Acute and Chronic Toxicity of Fluoxetine (Selective Serotonin Reuptake Inhibitor) in Western Mosquitofish." *Archives of Environmental Contamination and Toxicology* **2008**, *54*(2):325-330; doi:10.1007/s00244-007-9018-0.

Henry TB and Black MC. "Mixture and single-substance acute toxicity of selective serotonin reuptake inhibitors in ceriodaphnia dubia." *Environmental Toxicology and Chemistry* **2007**, *26*(8):1751-1755; doi:10.1897/06-265R.1.

Henry TB, Kwon J-W, Armbrust KL, and Black MC. "Acute and chronic toxicity of five selective serotonin reuptake inhibitors in ceriodaphnia dubia." *Environmental Toxicology and Chemistry* **2004**, *23*(9):2229-2233.

Henry TB, McPherson JT, Rogers ED, Heah TP, Hawkins SA, Layton AC*, et al.* "Changes in the relative expression pattern of multiple vitellogenin genes in adult male and larval zebrafish exposed to exogenous estrogens." *Comparative Biochemistry and Physiology - Part A: Molecular & Integrative Physiology* **2009**, *154*(1):119-126; doi:10.1016/j.cbpa.2009.05.009.

Henschel KP, Wenzel A, Diedrich M, and Fliedner A. "Environmental Hazard Assessment of Pharmaceuticals." *Regulatory Toxicology and Pharmacology* **1997**, *25*(3):220-225; doi:10.1006/rtph.1997.1102.

Hense BA, Severin GF, Welzl G, and Schramm KW. "Effects of 17α-ethinylestradiol on zoo- and phytoplankton in lentic microcosms." *Analytical and Bioanalytical Chemistry* **2004**, *378*(3):716-724; doi:10.1007/s00216-003-2379-y.

Hensley S and Murray S. "Use of samples in drug industry raises concern." The Wall Street Journal, 2000.

Hepler C and Strand L. "Opportunities and responsibilities in pharmaceutical care." *American Journal of Health-System Pharmacy* **1990**, *47*(3):533-543.

HERC "Pharmaceutical Wastes in Health Care Facilities." Web Page maintained by Healthcare Environmental Resource Center 2008, http://www.hercenter.org/hazmat/pharma.cfm.

Hercegova A and Polonsky J. "Determination of non-steroidal anti-inflammatory drugs in biological fluids." *Pharmazie* **1999**, *54*(7):479-486.

Heringa MB, van der Linden SC, Schriks M, Van Der Burg B, and Van Wezel AP. "Use of effect-directed assays in assessing the quality of drinking water and its sources." in *TECHNEAU: Safe Drinking Water from Source to Tap*, van den Hoven T and Kazner C, Eds., IWA Publishing; London, UK, 2009, pp 173-185; http://www.iwapublishing.com/template.cfm?name=isbn9781843392750.

Herlocker H. "Antibiotics in the food chain." *Chemical Matters* **2000**, (October):14-15.

Herman JS and Mills AL. "Biological and hydrogeological interactions affect the persistence of 17β-estradiol in an agricultural

watershed." *Geobiology* **2003**, (141-151).

Herman RL and Bullock GL. "Antimicrobials and fish: a review of drugs used to treat bacterial diseases of channel catfish and rainbow trout." *Veterinary and Human Toxicology* **1986**, *28*(Suppl 1):11-17.

Hermening A, Grafe A-K, Baktir G, Mutschler E, and Spahn-Langguth H. "Gemfibrozil and its oxidative metabolites: quantification of aglycones, acyl glucuronides, and covalent adducts in samples from preclinical and clinical kinetic studies." *Journal of Chromatography B: Biomedical Sciences and Applications* **2000**, *741*(2):129-144; doi:10.1016/S0378-4347(00)00041-4.

Hermens JLM, Heringa MB, and Laak TLt. "Bioavailability in Dose and Exposure Assessment of Organic Contaminants in (Eco)toxicology." *Journal of Toxicology and Environmental Health, Part A Current Issues* **2007**, *70*(9):727 - 730; doi:10.1080/15287390701236157.

Hernández F, Sancho JV, and Ibáñez M. "Use of UPLC-(Q)TOF MS for Rapid Screening of Organic Micropollutants in Water." in *Liquid Chromatography Time-of-Flight Mass Spectrometry: Principles, tools, and applications for accurate mass analysis*, Winefordner JD, Ed., John Wiley & Sons, Inc.; Hoboken, NJ, 2009, Chapter 5, pp 71-87; doi:10.1002/9780470429969.ch5; http://www3.interscience.wiley.com/cgi-bin/bookhome/120756170?CRETRY=1&SRETRY=0, http://www.researchandmarkets.com/reportinfo.asp?report_id=888664&t=t&cat_id=.

Hernandez F, Sancho JV, Ibanez M, and Guerrero C. "Antibiotic residue determination in environmental waters by LC-MS." *Trends in Analytical Chemistry* **2007**, *26*(6):466-485; doi:10.1016/j.trac.2007.01.012.

Hernández-Díaz S, Mitchell AA, Kelley KE, Calafat AM, and Hauser R. "Medications as a Potential Source of Exposure to Phthalates in the U.S. Population." *Environmental Health Perspectives* **2009**, *117*(2):185-189; doi:10.1289/ehp.11766.

Hernando Guil MD, Petrović M, Radjenovic J, Fernandez-Alba AR, Fernandez-Alba AR, and Barceló D. "Removal of pharmaceuticals in wastewater and drinking water treatments – Removal of pharmaceuticals by advanced treatment technologies." *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle* **2007**, *Volume 50*:451-474.

Hernando M, Agüera A, and Fernández-Alba A. "LC-MS analysis and environmental risk of lipid regulators." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1269-1285; doi:10.1007/s00216-006-0781-y.

Hernando MD, De Vettori S, Martínez Bueno MJ, and Fernández-Alba AR. "Toxicity evaluation with Vibrio fischeri test of organic chemicals used in aquaculture." *Chemosphere* **2007**, *68*(4):724-730; doi:10.1016/j.chemosphere.2006.12.097.

Hernando MD, Fernandez-Alba AR, Tauler R, and Barcelo D. "Toxicity assays applied to wastewater treatment." *Talanta* **2005**, *65*(2):358-366; doi:10.1016/j.talanta.2004.07.012.

Hernando MD, Gómez MJ, Agüera A, and Fernández-Alba AR. "LC-MS analysis of basic pharmaceuticals (beta-blockers and anti-ulcer agents) in wastewater and surface water." *Trends in Analytical Chemistry* **2007**, *26*(6):581-594; doi:10.1016/j.trac.2007.03.005.

Hernando MD, Heath E, Petrovic M, and Barcelo D. "Trace-level determination of pharmaceutical residues by LC-MS/MS in natural and treated waters. A pilot-survey study." *Analytical and Bioanalytical Chemistry* **2006**, *385*(6):985-991; doi:10.1007/s00216-006-0394-5.

Hernando MD, Martinez-Bueno MJ, and Fernandez-Alba AR. "Seawater quality control of microcontaminants in fish farm cage systems: Application of passive sampling devices." *Boletin. Instituto Espanol de Oceanografia* **2005**, *21*(1-4):37-46.

Hernando MD, Mezcua M, Fernandez-Alba AR, and Barcelo D. "Environmental risk assessment of pharmaceutical residues in wastewater effluents, surface waters and sediments." *Talanta* **2006**, *69*(2):334-342; doi:10.1016/j.talanta.2005.09.037.

Hernando MD, Mezcua M, Gomez MJ, Malato O, Aguera A, and Fernandez-Alba AR. "Comparative study of analytical methods involving gas chromatography-mass spectrometry after derivatization and gas chromatography-tandem mass spectrometry for the determination of selected endocrine disrupting compounds in wastewaters." *Journal of Chromatography A* **2004**, *1047*(1):129-135; doi:10.1016/j.chroma.2004.06.123.

Hernando MD, Mezcua M, Suarez-Barcena JM, and Fernandez-Alba AR. "Liquid chromatography with time-of-flight mass spectrometry for simultaneous determination of chemotherapeutant residues in salmon." *Analytica Chimica Acta* **2006**, *562*(2):176-184; doi:10.1016/j.aca.2006.01.075.

Hernando MD, Petrovic M, Fernandez-Alba AR, and Barcelo D. "Analysis by liquid chromatography-electro spray ionization tandem mass spectrometry and acute toxicity evaluation for β-blockers and lipid-regulating agents in wastewater samples." *Journal of*

Chromatography A **2004**, *1046*(1-2):133-140.

Herren D and Berset JD. "Nitro musks, nitro musk amino metabolites and polycyclic musks in sewage sludges: Quantitative determination by HRGC-ion-trap-MS/MS and mass spectral characterization of the amino metabolites." *Chemosphere* **2000**, *40*(5):565-574; doi:10.1016/S0045-6535(99)00325-2.

Herrera-Herrera AV, Hernández-Borges J, and Rodríguez-Delgado MÁ. "Fluoroquinolone antibiotic determination in bovine, ovine and caprine milk using solid-phase extraction and high-performance liquid chromatography-fluorescence detection with ionic liquids as mobile phase additives." *Journal of Chromatography A* **2009**, *1216*(43):7281-7287; doi:10.1016/j.chroma.2009.02.025.

Herring ME, Shah SK, Shah SK, and Gupta AK. "Current Regulations and Modest Proposals Regarding Disposal of Unused Opioids and Other Controlled Substances." *Journal of the American Osteopathic Association* **2008**, *108*(7):338-343.

Herrmann K. "Teratogenic Effects of Retinoic Acid and Related Substances on the Early Development of the Zebrafish (Brachydanio rerio) as Assessed by a Novel Scoring System." *Toxicology In Vitro* **1995**, *9*(3):267-283; doi:10.1016/0887-2333(95)00012-W.

Herry G, Raulet C, and Beausse J. "Study of new emerging pollutants in the environment : Endocrine Disrupters - Analysis of steroid hormones in Waste Water Treatment Plant using LC/MS-MS." *J Européen d'Hydrologie [European journal of water quality]* **2006**, *37*(1).

Herwig RP and Gray JP. "Microbial response to antibacterial treatment in marine microcosms." *Aquaculture* **1997**, *152*(1-4):139-154; doi:10.1016/S0044-8486(96)01517-7.

Heuer H, Krogerrecklenfort E, Wellington EMH, Egan S, Van Elsas JD, Van Overbreek L*, et al.* "Gentamicin resistance genes in environmental bacteria: prevalence and transfer." *FEMS Microbiology Ecology* **2002**, *42*(2):163.

Heuer H and Smalla K. "Manure and sulfadiazine synergistically increased bacterial antibiotic resistance in soil over at least two months." *Environmental Microbiology* **2007**, *9*(3):657-666; doi:10.1111/j.1462-2920.2006.01185.x.

Hewitt M and Servos M. "An overview of substances present in Canadian aquatic environments associated with endocrine disruption." *Water Quality Research Journal of Canada* **2001**, *36*(3):191-213.

Hewitt SC, Deroo BJ, and Korach KS. "A new mediator for an old hormone?" *Science* **2005**, *307*(5726):1572-1573; doi:10.1126/science.1110345.

Heylin M. "Biotechnology steps in it again down on the farm." *Chemical & Engineering News* **2000**, *78*(50):42.

Hibberd A, Maskaoui K, Zhang Z, and Zhou JL. "An improved method for the simultaneous analysis of phenolic and steroidal estrogens in water and sediment." *Talanta* **2009**, *77*(4):1315-1321; doi:10.1016/j.talanta.2008.09.006.

Higgins CP, Paesani ZJ, Chalew TEA, and Halden RU. "Bioaccumulation of Triclocarban in Lumbriculus variegatus." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2580-2586; doi:10.1897/09-013.1.

Hignite C and Azarnoff DL. "Drug and drug metabolites as environmental contaminants: Chlorophenoxyisobutyrate and salicylic acid in sewage water effluent." *Life Sciences* **1977**, *20*(2):337-341.

Hijosa-Valsero M, Matamoros V, Martín-Villacorta J, Bécares E, and Bayona JM. "Assessment of full-scale natural systems for the removal of PPCPs from wastewater in small communities." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.10.032.

Hildebrand C, Londry KL, and Farenhorst A. "Sorption and desorption of three endocrine disrupters in soils." *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants and Agricultural Wastes* **2006**, *41*(6):907-921; doi:10.1080/03601230600806020.

Hildebrandt A, Lacorte S, lvia, Barcel, and Dami. "Assessment of priority pesticides, degradation products, and pesticide adjuvants in groundwaters and top soils from agricultural areas of the Ebro river basin." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1459-1468; doi:10.1007/s00216-006-1015-z.

Hileman B. "Chemical testing plan draws praise." *Chemical & Engineering News* **1998**, *76*(41):18.

Hileman B. "Livestock antibiotic debate heats up." *Chemical & Engineering News* **1999**, *77*(43):32-35.

Hileman B. "FDA examines its priorities." *Chemical & Engineering News* **2000**, *78*(10):35-36.

Hileman B. "Poultry antibiotics pose human threat." *Chemical & Engineering News* **2000**, *78*(45):11.

Hileman B. "Seeking control of internet drug sales." *Chemical & Engineering News* **2000**, *78*(3):42-43.

Hileman B. "Low-dose problem vexes endocrine testing plans." *Chemical & Engineering News* **2000**, *77*(19):27-31.

Hileman B. "Drugs online face scrutiny." *Chemical & Engineering News* **2001**, *79*(40):51-55.

Hileman B. "Resistance is on the rise." *Chemical & Engineering News* **2001**, *79*(8):47-52.

Hileman B. "Troubled waters." *Chemical & Engineering News* **2001**, *80*(40):31-33.

Hileman B. "Drugs from plants stir debate." *Chemical & Engineering News* **2002**, *80*(32):22-25.

Hill RL and Janz DM. "Developmental estrogenic exposure in zebrafish (Danio rerio): I. Effects on sex ratio and breeding success." *Aquatic Toxicology* **2003**, *63*(4):417-429; doi:10.1016/S0166-445X(02)00207-2.

Hillard SW and Stewart KK. "Bypass trapped flow analysis system (ByT-FAS) used in application: quantitative chemiluminescent detection of whole intact E. coli cell genetic transcription levels via induction of luciferase with tetracycline." *Talanta* **1998**, *45*(3):513-518; doi:10.1016/S0039-9140(97)00181-1.

Hillis DG. "Effects of selected pharmaceuticals on arbuscular mycorrhizal fungi." Doctoral Dissertation, University of Guelph, Guelph, Ontario, Canada, 2009. 268 pp.

Hillis DG, Antunes P, Sibley PK, Klironomos JN, and Solomon KR. "Structural responses of Daucus carota root-organ cultures and the arbuscular mycorrhizal fungus, Glomus intraradices, to 12 pharmaceuticals." *Chemosphere* **2008**, *73*(3):344-352; doi:10.1016/j.chemosphere.2008.05.063.

Hillis DG, Lissemore L, Sibley PK, and Solomon KR. "Effects of Monensin on Zooplankton Communities in Aquatic Microcosms." *Environmental Science & Technology* **2007**, *41*(18):6620-6626; doi:10.1021/es070799f.

Hilton MJ and Thomas KV. "Determination of selected human pharmaceutical compounds in effluent and surface water samples by high-performance liquid chromatography-electrospray tandem mass spectrometry." *Journal of Chromatography A* **2003**, *1015*(1-2):129-141; doi:10.1016/S0021-9673(03)01213-5.

Hilton MJ, Thomas KV, and Ashton D. "Targeted monitoring programme for pharmaceuticals in the aquatic environment." Environment Agency, R&D Technical Report P6-012/06/TR, Bristol, England, 2003, 62 pp; http://publications.environment-agency.gov.uk/pdf/SP6012-06-TR-e-p.pdf.

Hilvarsson A, Halldorsson HP, and Granmo A. "Medetomidine as a candidate antifoulant: Sublethal effects on juvenile turbot (Psetta maxima L.)." *Aquatic Toxicology* **2007**, *83*(3):238-246; doi:10.1016/j.aquatox.2007.04.008.

Himmelsbach M, Buchberger W, and Klampfl CW. "Determination of antidepressants in surface and waste water samples by capillary electrophoresis with electrospray ionization mass spectrometric detection after preconcentration using off-line solid-phase extraction." *Electrophoresis* **2006**, *27*(5-6):1220-1226; doi:10.1002/elps.200500693.

Himmelsbach M, Buchberger W, and Miesbauer H. "Determination of pharmaceutical drug residues on suspended particulate material in surface water." *International Journal of Environmental Analytical Chemistry* **2003**, *83*(6):481-486.

Himmelsbach M, Klampfl CW, and Buchberger W. "Development of an analytical method for the determination of antidepressants in water samples by capillary electrophoresis with electrospray ionization mass spectrometric detection." *Journal of Separation Science* **2005**, *28*(14):1735-1741; doi:10.1002/jssc.200500157.

Hinck JE, Blazer VS, Denslow ND, Echols KR, Gross TS, May TW*, et al.* "Chemical contaminants, health indicators, and reproductive biomarker responses in fish from the Colorado River and its tributaries." *Science of the Total Environment* **2007**, *378*(3):376-402; doi:10.1016/j.scitotenv.2007.02.032.

Hinck JE, Blazer VS, Schmitt CJ, Papoulias DM, and Tillitt DE. "Widespread occurrence of intersex in black basses (Micropterus spp.) from U.S. rivers, 1995-2004." *Aquatic Toxicology* **2009**, *95*(1):60-70; doi:10.1016/j.aquatox.2009.08.001.

Hinfray N, Porcher JM, and Brion F. "Inhibition of rainbow trout (Oncorhynchus mykiss) P450 aromatase activities in brain and

ovarian microsomes by various environmental substances." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2006**, *144*(3):252-262; doi:10.1016/j.cbpc.2006.09.002.

Hinkle SR, Weick RJ, Johnson JM, Cahill JD, Smith SG, and Rich BJ. "Orangic wastewater compounds, pharmaceuticals, and coliphage in ground water receiving discharge from onsite wastewater treatment systems near La Pine, Oregon: Occurrence and implications for transport." 2005-5055, US Geological Survey, 2005. 108 pp.

Hintemann T, Schneider C, Scholer HF, and Schneider RJ. "Field study using two immunoassays for the determination of estradiol and ethinylestradiol in the aquatic environment." *Water Research* **2006**, *40*(12):2287-2294; doi:10.1016/j.watres.2006.04.028.

Hinton DE, Kullman SW, Hardman RC, Volz DC, Chen P-J, Carney M*, et al.* "Resolving mechanisms of toxicity while pursuing ecotoxicological relevance?" *Marine Pollution Bulletin* **2005**, *51*(8-12):635-648; doi:10.1016/j.marpolbul.2005.07.020.

Hinton TG and Aizawa K. "A Layperson's Primer on Multiple Stressors." in *Multiple Stressors: A Challenge for the Future*, Mothersill C, Mosse I and Seymour C, Eds., Springer Netherlands; Minsk, Belarus, 2007, Chapter 5, pp 57-69; doi:10.1007/978-1-4020-6335-0_5; http://www.springerlink.com/content/c28015x465373x0h/.

Hirata-Koizumi M, Saito M, Miyake S, and Hasegawa R. "[Study on environmental risk assessment of drugs: excretion forms to environment]." *Kokuritsu Iyakuhin Shokuhin Eisei Kenkyusho Hokoku [Bulletin of National Institute of Health Sciences]* **2006**, *124*:83-86.

Hirons NL. "Estimating Chronic Exposure to Steroid Hormones in Water." Masters Dissertation, Raleigh, NC, 2009. 120 pp; http://www.lib.ncsu.edu/theses/available/etd-03192009-134503/.

Hirose J, Kondo F, Nakano T, Kobayashi T, Hiro N, Ando Y*, et al.* "Inactivation of antineoplastics in clinical wastewater by electrolysis." *Chemosphere* **2005**, *60*(8):1018-1024; doi:10.1016/j.chemosphere.2005.01.024.

Hirsch R, Ternes T, Haberer K, and Kratz K-L. "Occurrence of antibiotics in the aquatic environment." *Science of the Total Environment* **1999**, *225*(1-2):109-118; doi:10.1016/S0048-9697(98)00337-4.

Hirsch R, Ternes TA, Haberer K, Mehlich A, Ballwanz F, and Kratz K-L. "Determination of antibiotics in different water compartments via liquid chromatography-electrospray tandem mass spectrometry." *Journal of Chromatography A* **1998**, *815*(2):213-223; doi:10.1016/S0021-9673(98)00335-5.

Hirsch R, Ternes TA, Lindart A, Haberer K, and Wilken RD. "A sensitive method for the determination of iodine containing diagnostic agents in aqueous matrices using LC-electrospray-tandem-MS detection." *Fresenius Journal of Analytical Chemistry* **2000**, *366*(8):835-841.

Hirsch RM, Hamilton PA, and Miller TL. "U.S. geological survey perspective on water-quality monitoring and assessment." *Journal of Environmental Monitoring* **2006**, *8*(5):512-518; doi:10.1039/b603613a.

Hirsch RM, Ternes TA, Haberer K, and Kratz K-L. "Determination of Beta-blockers and B-sympathomimetics in the aquatic environment." *Vom Wasser* **1996**, *87*:263-274.

Hitchcock D. "Secret Potion Drugs in our waterways." Axis Performance Advisors, Inc, 2005, http://www.pacifier.com/~axis/S23Drugs.html.

Ho M. "Taiwan seeks to solve its resistance problems." *Science* **2001**, *291*(5513):2550-2551.

Ho S-P, Cheng C-F, and Wang W-S. "Pharmacokinetic and Depletion Studies of Sarafloxacin after Oral Administration to Eel (Anguilla anguilla)." *The Journal of Veterinary Medical Science* **1999**, *61*(5):459-463.

Hoa PTP, Nonaka L, Hung Viet P, and Suzuki S. "Detection of the sul1, sul2, and sul3 genes in sulfonamide-resistant bacteria from wastewater and shrimp ponds of north Vietnam." *Science of the Total Environment* **2008**, *405*(1-3):377-384; doi:10.1016/j.scitotenv.2008.06.023.

Hoang A. "Caspofungin acetate: An antifungal agent." *American Journal of Health-System Pharmacy* **2001**, *58*(13):1206-1214.

Hobson JF and Silberhorn EM. "Octamethylcyclotetrasiloxane (OMCTS), a case study – summary and aquatic risk assessment." *Environmental Toxicology and Chemistry* **1995**, *14*(10):1667-1673; doi:10.1897/1552-8618(1995)14[1667:OOACSS]2.0.CO;2.

Hoeger B, Dietrich DR, Schmid D, Hartmann A, and Hitzfeld B. "Distribution of intraperitoneally injected diclofenac in brown trout

(Salmo trutta f. fario)." *Ecotoxicology and Environmental Safety* **2008**, *71*(2):412-418; doi:10.1016/j.ecoenv.2007.10.020.

Hoeger B, Hitzfeld B, Kollner B, Dietrich DR, and van den Heuvel MR. "Sex and low-level sampling stress modify the impacts of sewage effluent on the rainbow trout (Oncorhynchus mykiss) immune system." *Aquatic Toxicology* **2005**, *73*(1):79-90; doi:10.1016/j.aquatox.2005.03.004.

Hoeger B, Koellner B, Kotterba G, van den Heuvel MR, Hitzfeld B, and Dietrich DR. "Influence of chronic exposure to treated sewage effluent on the distribution of white blood cell populations in rainbow trout (Oncorhynchus mykiss) spleen." *Toxicological Sciences* **2004**, *82*(1):97-105; doi:10.1093/**to**xsci/kfh250.

Hoeger B, Kollner B, Dietrich DR, and Hitzfeld B. "Water-borne diclofenac affects kidney and gill integrity and selected immune parameters in brown trout (Salmo trutta f. fario)." *Aquatic Toxicology* **2005**, *75*(1):53-64; doi:10.1016/j.aquatox.2005.07.006.

Hoeger B, van den Heuvel MR, Hitzfeld BC, and Dietrich DR. "Effects of treated sewage effluent on immune function in rainbow trout (Oncorhynchus mykiss)." *Aquatic Toxicology* **2004**, *70*(4):345-355; doi:10.1016/j.aquatox.2004.10.010.

Hoekstra AY and Chapagain AK. "Water footprints of nations: Water use by people as a function of their consumption pattern." *Water Resources Management* **2007**, *21*:35-48; doi:10.1007/s11269-006-9039-x.

Hoenicke R, Oros DR, Oram JJ, and Taberski KM. "Adapting an ambient monitoring program to the challenge of managing emerging pollutants in the San Francisco Estuary." *Environmental Research* **2007**, *105*(1):132-144; doi:10.1016/j.envres.2007.01.005.

Hoerauf A, Buttner DW, Adjei O, and Pearlman E. "Science, medicine, and the future - Onchocerciasis." *British Medical Journal* **2003**, *326*(7382):207-210B.

Hoerger C, Dörr B, Schlienger C, and Straub JO. "Environmental Risk Assessment for the Galenical Formulation of Solid Medicinal Products at Roche Basle, Switzerland." *Integrated Environmental Assessment and Management* **2009**, *5*(2):331-337; doi:10.1897/IEAM_2008-049.1.

Hoerger CC, Wettstein FE, HungerbuÌˆhler K, and Bucheli TD. "Occurrence and Origin of Estrogenic Isoflavones in Swiss River Waters." *Environmental Science & Technology* **2009**, *43*(16):6151-6157; doi:10.1021/es901034u.

Hoes OAC, Schilperoort RPS, Luxemburg WMJ, Clemens FHLR, and van de Giesen NC. "Locating illicit connections in storm water sewers using fiber-optic distributed temperature sensing." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.08.020.

Hoet P, Legiest B, Geys J, and Nemery B. "Do Nanomedicines Require Novel Safety Assessments to Ensure their Safety for Long-Term Human Use? ." *Drug Safety* **2009**, *32*(8):625-636.

Hoffbuhr J. "The Truth About Pharmaceuticals & Personal Care Products in Your Water." American Water Works Association, 2009, 32 pp; http://www.awwa.org/bookstore/productDetail.cfm?ItemNumber=42101.

Hoffmann JL, Torontali SP, Thomason RG, Lee DM, Brill JL, Price BB*, et al.* "Hepatic gene expression profiling using Genechips in zebrafish exposed to 17α-ethynylestradiol." *Aquatic Toxicology* **2006**, *79*(3):233-246; doi:10.1016/j.aquatox.2006.06.009.

Hofkamp L, Bradley S, Tresguerres J, Lichtensteiger W, Schlumpf M, and Timms B. "Region-specific growth effects in the developing rat prostate following fetal exposure to estrogenic ultraviolet filters." *Environmental Health Perspectives* **2008**, *116*(7):867-872; doi:10.1289/ehp.10983.

Hofmann J, Freier U, Wecks M, and Hohmann S. "Degradation of diclofenac in water by heterogeneous catalytic oxidation with H_2O_2." *Applied Catalysis B: Environmental* **2007**, *70*(1-4):447-451; doi:10.1016/j.apcatb.2005.11.023.

Hofmeister S and Kümmerer K. "Sustainability, substance-flow management, and time, Part II: Temporal impact assessment (TIA) for substance-flow management." *Journal of Environmental Management* **2009**, *90*(3):1377-1384; doi:10.1016/j.jenvman.2008.08.004.

Hoftberger M and Lutz-Meindl U. "Septum formation in the desmid Xanthidium (Chlorophyta): Effects of cytochalasin D and latrunculin B suggest the involvement of actin microfilaments." *Journal of Phycology* **1999**, *35*(4):768-777; doi:10.1046/j.1529-8817.1999.3540768.x.

Hogan D and Hogan M. 2008, "New Methamphetamine Test: Industrial Hygienists Create Instant Test To Identify Traces Of Crystal Methamphetamine." ScienceDaily, http://www.sciencedaily.com/videos/2008/0310-new_methamphetamine_test.htm.

Hogan D and Hogan M. 2009, "Nanoparticles in cosmetics, personal care products may have adverse environment effects."

ScienceDaily, http://www.sciencedaily.com/releases/2009/03/090326162747.htm.

Hogan NS, Duarte P, Wade MG, Lean DRS, and Trudeau VL. "Estrogenic exposure affects metamorphosis and alters sex ratios in the northern leopard frog (Rana pipiens): Identifying critically vulnerable periods of development." *General and Comparative Endocrinology* **2008**, *156*(3):515-523; doi:10.1016/j.ygcen.2008.03.011.

Hogan NS, Lean DRS, and Trudeau VL. "Exposures to estradiol, ethinylestradiol and octylphenol affect survival and growth of Rana pipiens and Rana sylvatica tadpoles." *Journal of Toxicology and Environmental Health, Part A: Current Issues* **2006**, *69*(16):1555-1569; doi:10.1080/15287390500470759.

Hogenboom AC, van Leerdam JA, and de Voogt P. "Accurate mass screening and identification of emerging contaminants in environmental samples by liquid chromatography-hybrid linear ion trap Orbitrap mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(3):510-519; doi:10.1016/j.chroma.2008.08.053.

Höger B. "Effects of Sewage Treatment Plant Effluent on the Immune System of Rainbow Trout (Oncorhynchus mykiss)." Doctoral Dissertation, Universität Konstanz, 2003. 129 pp; http://www.ub.uni-konstanz.de/kops/volltexte/2004/1192/pdf/Doktorarbeit_Birgit_Hoeger.pdf.

Hoger B, Taylor S, Hitzfeld B, Dietrich DR, and van den Heuvel MR. "Stimulation of reproductive growth in rainbow trout (Oncorhynchus mykiss) following exposure to treated sewage effluent." *Environmental Toxicology and Chemistry* **2006**, *25*(10):2753-2759; doi:10.1897/06-051R.1.

Hogue C. "EPA policy targets persistent chemicals." *Chemical & Engineering News* **1999**, *77*(46):10-11.

Hogue C. "Toxics pact down to the wire." *Chemical & Engineering News* **2000**, *78*(48):15-17.

Hogue C. "Toxicogenomics uses genes as a toxic screen." *Chemical & Engineering News* **2001**, *79*(12):33-34.

Hogue C. "New policy rules: NRC probes use of toxicogenomics data for control of drugs, pollutants, workplace chemicals." *Chemical & Engineering News* **2002**, *80*(46):55-57.

Hogue C. "Methamphetamine pollution: congress considers funding research to help guide the cleanup of illicit labs." *Chemical & Engineering News* **2005**, *83*(13):25-27.

Hoharitanon S, Chaichalotornkul J, and Sindhupak W. "A comparison of the efficacy between two itraconazole generic products and the innovative itraconazole in the treatment of tinea pedis." *Journal of the Medical Association of Thailand* **2005**, *88*(Suppl 4):S167-172.

Hohenblum P, Gans O, Moche W, Scharf S, and Lorbeer G. "Monitoring of selected estrogenic hormones and industrial chemicals in groundwaters and surface waters in Austria." *Science of the Total Environment* **2004**, *333*(1-3):185-193; doi:10.1016/j.scitotenv.2004.05.009.

Höhfeld J, Cyr DM, and Patterson C. "From the cradle to the grave: molecular chaperones that may choose between folding and degradation." *EMBO Reports* **2001**, *2*(10):885-890; doi:10.1093/embo-reports/kve206.

Høiby N, Jarløv JO, Kemp M, Tvede M, Bangsborg JM, Kjerulf A*, et al.* "Excretion of ciprofloxacin in sweat and multiresistant Staphylococcus epidermidis." *The Lancet* **1997**, *349*(9046):167-169; doi:10.1016/S0140-6736(96)09229-X.

Høiby N, Pers C, Johansen HK, Hansen H, and The Copenhagen Study Group on Antibiotics in Sweat. "Excretion of β-Lactam Antibiotics in Sweat—a Neglected Mechanism for Development of Antibiotic Resistance?" *Antimicrobial Agents and Chemotherapy* **2000**, *44*(10):2855-2857.

Holbech H, Kinnberg K, Petersen GI, Jackson P, Hylland K, Norrgren L*, et al.* "Detection of endoctrine disrupters: evaluation of a fish sexual development test (FSDT)." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2006**, *144*(1):57-66; doi:10.1016/j.cbpc.2006.05.006.

Holbrook Jr. RD. "Fate and Transport of Endocrine Disrupting Compounds during Wastewater Treatment: The Role of Colloidal and Particulate Material." Doctoral Dissertation, 2003. http://scholar.lib.vt.edu/theses/available/etd-09022003-181914/.

Holbrook RD, Love NG, and Novak JT. "Sorption of 17β-estradiol and 17α-ethinylestradiol by colloidal organic carbon derived from biological wastewater treatment systems." *Environmental Science & Technology* **2004**, *38*(12):3322-3329.

Holbrook RD, Novak JT, Grizzard TJ, and Love NG. "Estrogen receptor agonist fate during wastewater and biosolids treatment processes: A mass balance analysis." *Environmental Science & Technology* **2002**, *36*(21):4533-4539; doi:10.1021/es020577b.

Holbrook RD, Novak JT, Grizzard TJ, and Love NG. "Response to Comment on "Estrogen Receptor Agonist Fate during Wastewater and Biosolids Treatment Processes: A Mass Balance Analysis"." *Environmental Science & Technology* **2003**, *37*(20):4821-4822.

Holland PT. "Analysis of endocrine active substances in food and the environment." *Pure and Applied Chemistry* **2003**, *75*(11-12):1843-1857; doi:10.1351/pac200375111843.

Hollender J, Zimmermann SG, Koepke S, Krauss M, McArdell CS, Ort C*, et al.* "Elimination of Organic Micropollutants in a Municipal Wastewater Treatment Plant Upgraded with a Full-Scale Post-Ozonation Followed by Sand Filtration." *Environmental Science & Technology* **2009**, *43*(20):7862-7869; doi:10.1021/es9014629.

Hollert H, Durr M, Holtey-Weber R, Islinger M, Brack W, Farber H*, et al.* "Endocrine disruption of water and sediment extracts in. a non-radioactive dot blot/RNAse protection-assay using isolated hepatocytes of rainbow trout - Deficiencies between bioanalytical effectiveness and chemically determined concentrations and how to explain them." *Environmental Science and Pollution Research* **2005**, *12*(6):347-360; doi:10.1065/espr2005.07.273.

Holling CS. "The resilience of terrestrial ecosystems; local surprise and global change." in *Sustainable Development of the Biosphere*, Clark WC and Munn RE, Eds., Cambridge University Press; Cambridge, U.K., 1986, 10, pp 292-317.

Hollingsworth RG, Armstrong JW, and Campbell E. "Caffeine as a repellent for slugs and snails: At high concentrations this stimulant becomes a lethal neurotoxin to garden pests." *Nature* **2002**, *417*:915-916; doi:10.1038/417915a.

Holm G. "Experiences with the Swedish environmental classification system of pharmaceuticals on www.fass.se." *Toxicology Letters* **2009**, *189*(Supplement 1):S34-S34; doi:10.1016/j.toxlet.2009.06.068.

Holm JV, Rügge K, Bjerg PL, and Christensen TH. "Occurrence and distribution of pharmaceutical organic compounds in the groundwater downgradient of a landfill (Grindsted, Denmark)." *Environmental Science & Technology* **1995**, *29*(5):1415-1420; doi:10.1021/es00005a039.

Holmes M, Bonner M, and Wristen KG. "The National Sewage Report Card (Number Two): Rating the Treatment Methods and Discharges of 21 Canadian Cities." 0-9698351-2-4, Vancouver, BC, Canada, August, 1999, 66 pp; http://www.georgiastrait.org/files/share/PDF/sewage_report_card_2.pdf.

Holmstrom K, Graslund S, Wahlstrom A, Poungshompoo S, Bengtsson BE, and Kautsky N. "Antibiotic use in shrimp farming and implications for environmental impacts and human health." *International Journal of Food Science & Technology* **2003**, *38*(3):255-266; doi:10.1046/j.1365-2621.2003.00671.x.

Holt LM, Laursen AE, McCarthy LH, Bostan IV, and Spongberg AL. "Changes to microbial nitrogen-fixation, respiration, and community structure following land-application of municipal biosolids." presented at Moving Forward: Wastewater Biosolids Sustainability: Technical, Managerial, and Public Synergy Conference, 24-27 June, at Moncton, New Brunswick, Canada, 2007; http://bvsde.per.paho.org/bvsaar/cdlodos/pdf/changestomicrobial819.pdf.

Holten Lützhöft H-C. "Environmental risk assessment of antimicrobials." Doctoral Dissertation, Royal Danish School of Pharmacy, Department of Analytical and Pharmaceutical Chemistry, Copenhagen, Denmark, 2000. 133 pp.

Holten Lützhøft HC, Halling-Sørensen B, and Jørgensen SE. "Algal Toxicity of Antibacterial Agents Applied in Danish Fish Farming." *Archives of Environmental Contamination and Toxicology* **1999**, *36*(1):1-6; doi:10.1007/s002449900435.

Holten Lützhoft H-C, Vaes WHJ, Freidig AP, Halling-Sørensen B, and Hermens JLM. "1-Octanol/water distribution coefficient of oxolinic acid: influence of pH and its relation to the interaction with dissolved organic carbon." *Chemosphere* **2000**, *40*(7):711-714; doi:10.1016/S0045-6535(99)00441-5.

Holten Lützhøft H-C, Vaes WHJ, Freidig AP, Halling-Sørensen B, and Hermens JLM. "The influence of pH and other modifying factors on the distribution behavior of 4-quinolones to solid phases and humic acids studied by 'negligible-depletion' SPME-HPLC." *Environmental Science & Technology* **2000**, *34*(23):4989-4994; doi:10.1021/es000917y.

Höltge S and Kreuzig R. "Laboratory testing of sulfamethoxazole and its metabolite acetyl-sulfamethoxazole in soil." *CLEAN - Soil, Air, Water* **2007**, *35*(1):104-110; doi:10.1002/clen.200600019.

Holthaus KIE, Johnson AC, Jurgens MD, Williams RJ, Smith JJL, and Carter JE. "The potential for estradiol and ethinylestradiol to

sorb to suspended and bed sediments in some English rivers." *Environmental Toxicology and Chemistry* **2002**, *21*(12):2526-2535; doi:10.1897/1551-5028(2002)021<2526:TPFEAE>2.0.CO;2.

Holtz S. "There Is No “Away”: Pharmaceuticals, Personal Care Products, and Endocrine-disrupting Substances: Emerging Contaminants Detected in Water." Canadian Institute for Environmental Law and Policy, 1-896588-54-9, Toronto, Ontario, Canada, January, 2006, 82 pp; http://www.ec.gc.ca/cppic/En/refView.cfm?refId=2062
http://www.cielap.org/pdf/NoAway.pdf.

Hong HN, Kim HN, Park KS, Lee S-K, and Gu MB. "Analysis of the effects diclofenac has on Japanese medaka (Oryzias latipes) using real-time PCR." *Chemosphere* **2007**, *67*(11):2115-2121; doi:10.1016/j.chemosphere.2006.12.090.

Honkoop PJC, Luttikhuizen PC, and Piersma T. "Experimentally extending the spawning season of a marine bivalve using temperature change and fluoxetine as synergistic triggers." *Marine Ecology Progress Series* **1999**, *180*:297-300.

Hontela A. "Corticosteroidogenesis and StAR protein of rainbow trout disrupted by human-use pharmaceuticals: data for use in risk assessment." *Toxicological Sciences* **2006**, *93*(1):1-2; doi:10.1093/toxsci/kfl054.

Hood HL, Wickett RR, and Bronaugh RL. "In vitro percutaneous absorption of the fragrance ingredient musk xylol." *Food and Chemical Toxicology* **1996**, *34*(5):483-488.

Hook SE and Fisher NS. "Sublethal effects of silver in zooplankton: Importance of exposure pathways and implications for toxicity testing." *Environmental Toxicology and Chemistry* **2001**, *20*(3):568-574; doi:10.1897/1551-5028(2001)020<0568:SEOSIZ>2.0.CO;2.

Hook SE, Skillman AD, Small JA, and Schultz IR. "Gene expression patterns in rainbow trout, Oncorhynchus mykiss, exposed to a suite of model toxicants." *Aquatic Toxicology* **2006**, *77*(4):372-385; doi:10.1016/j.aquatox.2006.01.007.

Hook SE, Skillman AD, Small JA, and Schultz IR. "Temporal changes in gene expression in rainbow trout exposed to ethynyl estradiol." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2007**, *145*(1):73-85; doi:10.1016/j.cbpc.2006.10.011.

Hoover RN. "Cancer -- nature, nurture, or both." *New England Journal of Medicine* **2000**, *343*(2):135-136.

Hopkins AL. "Network pharmacology." *Nature Biotechnology* **2007**, *25*(10):1110-1111; doi:10.1038/nbt1007-1110.

Horii Y, Reiner JL, Loganathan BG, Senthil Kumar K, Sajwan K, and Kannan K. "Occurrence and fate of polycyclic musks in wastewater treatment plants in Kentucky and Georgia, USA." *Chemosphere* **2007**, *68*(11):2011-2020; doi:10.1016/j.chemosphere.2007.04.054.

Hornish RE and Katarski SF. "Cephalosporins in Veterinary Medicine - Ceftiofur Use in Food Animals." *Current Topics in Medicinal Chemistry* **2002**, *2*(7):717-731; doi:10.2174/1568026023393679.

Horowitz R, Mazor SS, Aks SE, and Leikin JB. "Accidental clonidine patch ingestion in a child." *American Journal of Therapeutics* **2005**, *12*(3):272-274.

Horsberg TE, Martinsen B, Sandersen K, and Zernichow L. "Potentiated Sulfonamides: In Vitro Inhibitory Effect and Pharmacokinetic Properties in Atlantic Salmon in Seawater." *Journal of Aquatic Animal Health* **1997**, *9*:203-210.

Horwitz DF. "Diagnosis and treatment of canine separation anxiety and the use of clomipramine hydrochloride (Clomicalm)." *Journal of the American Animal Hospital Association* **2000**, *36*(2):107-109.

Horwitz P and Wilcox BA. "Parasites, ecosystems and sustainability: an ecological and complex systems perspective." *International Journal for Parasitology* **2005**, *35*(7):725-732; doi:10.1016/j.ijpara.2005.03.002.

Hoshina K, Horiyama S, Matsunaga H, and Haginaka J. "Molecularly imprinted polymers for simultaneous determination of antiepileptics in river water samples by liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(25):4957-4962; doi:10.1016/j.chroma.2009.04.071.

Höss S and Weltje L. "Endocrine disruption in nematodes: effects and mechanisms." *Ecotoxicology* **2007**, *16*(1):15-28; doi:10.1007/s10646-006-0108-y.

Hotchkiss AK, Furr J, Makynen EA, Ankley GT, and Gray LEJ. "In utero exposure to the environmental androgen trenbolone masculinizes female Sprague–Dawley rats." *Toxicology Letters* **2007**, *174*(1-3):31-41; doi:10.1016/j.toxlet.2007.08.008.

Hotchkiss AK and Nelson RJ. "An Environmental Androgen, 17β-Trenbolone, Affects Delayed-Type Hypersensitivity and Reproductive Tissues in Male Mice." *Journal of Toxicology and Environmental Health, Part A Current Issues* **2007**, *70*(2):138 - 140; doi:10.1080/15287390600755091.

Hotchkiss AK, Rider CV, Blystone CR, Wilson VS, Hartig PC, Ankley GT*, et al.* "Fifteen Years after "Wingspread"--Environmental Endocrine Disrupters and Human and Wildlife Health: Where We are Today and Where We Need to Go." *Toxicological Sciences* **2008**, *105*(2):235-259; doi:10.1093/toxsci/kfn030.

Hotz RL. "What You Don't Know About a Drug Can Hurt You." The Wall Street Journal, 2008, 12 December http://online.wsj.com/article/SB122903390105599607.html.

Hou X, Shen J, Zhang S, Jiang H, and Coats JR. "Bioconcentration and elimination of sulfamethazine and its main metabolite in sturgeon (Acipenser schrenkii)." *Journal of Agricultural and Food Chemistry* **2003**, *51*(26):7725-7729; doi:10.1021/jf030492+.

Houdebine L-M. "Production of pharmaceutical proteins by transgenic animals." *Comparative Immunology, Microbiology and Infectious Diseases* **2009**, *32*(2):107-121; doi:10.1016/j.cimid.2007.11.005.

Houlihan J and Wiles R. "Beauty Secrets: Does a Common Chemical in Nail Polish Pose Risks to Human Health?" Environmental Working Group, Washington, DC, 9 November, 2000, 34 pp; http://www.ewg.org/book/export/html/8160.

Houskeeper B. "Drug Take-Back Programs: What Will They Solve? Policymakers advocate regulation despite absence of science." Washington Policy Center, January, 2009, http://www.washingtonpolicy.org/Centers/environment/policynote/DrugTakeBack.pdf.

Houtman CJ, Booij P, Jover E, Pascual del Rio D, Swart K, van Velzen M*, et al.* "Estrogenic and dioxin-like compounds in sediment from Zierikzee harbour identified with CALUX assay-directed fractionation combined with one and two dimensional gas chromatography analyses." *Chemosphere* **2006**, *65*(11):2244-2252; doi:10.1016/j.chemosphere.2006.05.043.

Houtman CJ, Booij P, van der Valk KM, van Bodegom PM, van den Ende F, Gerritsen AAM*, et al.* "Biomonitoring of estrogenic exposure and identification of responsible compounds in bream from Dutch surface waters." *Environmental Toxicology and Chemistry* **2007**, *26*(5):898-907; doi:10.1897/06-326R.1.

Houtman CJ, Van Oostveen AM, Brouwer A, Lamoree MH, and Legler J. "Identification of estrogenic compounds in fish bile using bioassay-directed fractionation." *Environmental Science & Technology* **2004**, *38*(23):6415-6423; doi:10.1021/es049750p.

Howard V. "Synergistic effects of chemical mixtures: can we rely on traditional toxicology?" *The Ecologist* **1997**, *27*(5):192-195.

Howd RA and Fan AM. "Risk Assessment for Chemicals in Drinking Water." 2007; http://www.wiley.com/WileyCDA/WileyTitle/productCd-0471723444.html.

Hsieh MH, Grantham EC, Liu B, Macapagal R, Willingham E, and Baskin LS. "In Utero Exposure to Benzophenone-2 Causes Hypospadias Through an Estrogen Receptor Dependent Mechanism." *The Journal of Urology* **2007**, *178*(4, Supplement 1):1637-1642; doi:10.1016/j.juro.2007.03.190.

Hsieh S-H, Huang H-Y, and Lee S. "Determination of eight penicillin antibiotics in pharmaceuticals, milk and porcine tissues by nano-liquid chromatography." *Journal of Chromatography A* **2009**, *1216*(43):7186-7194; doi:10.1016/j.chroma.2009.05.080.

Hsu LC, Constable DJC, Orvos DR, and Hannah RE. "Comparison of high-performance liquid chromatography and capillary zone electrophoresis in penciclovir biodegradation kinetic studies." *Journal of Chromatography B: Biomedical Sciences and Applications* **1995**, *669*(1):85-92; doi:10.1016/0378-4347(95)00022-B.

Hu D and Coats JR. "Aerobic degradation and photolysis of tylosin in water and soil." *Environmental Toxicology and Chemistry* **2007**, *26*(5):884-889; doi:10.1897/06-197R.1.

Hu D and Coats JR. "Laboratory evaluation of mobility and sorption for the veterinary antibiotic, tylosin, in agricultural soils." *Journal of Environmental Monitoring* **2009**, *11*(0):1634-1638; doi:10.1039/b900973f.

Hu D, Fulton B, Henderson K, and Coats J. "Identification of Tylosin Photoreaction Products and Comparison of ELISA and HPLC Methods for Their Detection in Water." *Environmental Science & Technology* **2008**, *42*(8):2982-2987.

Hu J, Chang H, Wang L, Wu S, Shao B, Zhou J*, et al.* "Detection, Occurrence and Fate of Indirubin in Municipal Sewage Treatment Plants." *Environmental Science & Technology* **2008**, *42*(22):8339-8344.

Hu J, Shi J, Chang H, Li D, Yang M, and Kamagata Y. "Phenotyping and Genotyping of Antibiotic-Resistant Escherichia coli Isolated from a Natural River Basin." *Environmental Science & Technology* **2008**, *42*(9):3415-3420; doi:10.1021/es7026746.

Hu J, Wang W, Zhu Z, Chang H, Pan F, and Lin B. "Quantitative Structure-Activity Relationship Model for Prediction of Genotoxic Potential for Quinolone Antibacterials." *Environmental Science & Technology* **2007**, *41*(13):4806-4812.

Hu J, Zhang H, and Chang H. "Improved method for analyzing estrogens in water by liquid chromatography-electrospray mass spectrometry." *Journal of Chromatography A* **2005**, *1070*(1-2):221-224; doi:10.1016/j.chroma.2005.02.069.

Hu JY, Chen X, Tao G, and Kekred K. "Fate of endocrine disrupting compounds in membrane bioreactor systems." *Environmental Science & Technology* **2007**, *41*(11):4097-4102; doi:10.1021/es062695v.

Hu JY, Jin X, and Ong SL. "Rejection of estrone by nanofiltration: Influence of solution chemistry." *Journal of Membrane Science* **2007**, *302*(1-2):188-196; doi:10.1016/j.memsci.2007.06.043.

Hu L, Flanders PM, Miller PL, and Strathmann TJ. "Oxidation of sulfamethoxazole and related antimicrobial agents by TiO2 photocatalysis." *Water Research* **2007**, *41*(12):2612-2626; doi:10.1016/j.watres.2007.02.026.

Hu R, Zhang L, and Yang Z. "Picogram determination of estrogens in water using large volume injection gas chromatography–mass spectrometry." *Analytical and Bioanalytical Chemistry* **2008**, *390*(1):349-359; doi:10.1007/s00216-007-1683-3.

Hu X-G, Yi L, Zhou Q-X, and Xu L. "Determination of Thirteen Antibiotics Residues in Manure by Solid Phase Extraction and High Performance Liquid Chromatography." *Chinese Journal of Analytical Chemistry* **2008**, *36*(9):1162-1166; doi:10.1016/S1872-2040(08)60063-8.

Hu XL, Liu SP, and Liu ZF. "Determination of kanamycin using flow injection analysis coupled with resonance Rayleigh scattering detection." *Bulletin of the Chemical Society of Japan* **2006**, *79*(2):247-251.

Hua J, An P, Winter J, and Gallert C. "Elimination of COD, microorganisms and pharmaceuticals from sewage by trickling through sandy soil below leaking sewers." *Water Research* **2003**, *37*(18):4395-4404; doi:10.1016/S0043-1354(03)00334-8.

Hua W, Bennett ER, and Letcher RJ. "Triclosan in waste and surface waters from the upper Detroit River by liquid chromatography-electrospray-tandem quadrupole mass spectrometry." *Environment International* **2005**, *31*(5):621-630; doi:10.1016/j.envint.2004.10.019.

Hua W, Bennett ER, and Letcher RJ. "Ozone treatment and the depletion of detectable pharmaceuticals and atrazine herbicide in drinking water sourced from the upper Detroit River, Ontario, Canada." *Water Research* **2006**, *40*(12):2259-2266; doi:10.1016/j.watres.2006.04.033.

Hua WY, Bennett ER, Maio XS, Metcalfe CD, and Letcher RJ. "Seasonality effects on pharmaceuticals and s-triazine herbicides in wastewater effluent and surface water from the Canadian side of the upper Detroit River." *Environmental Toxicology and Chemistry* **2006**, *25*(9):2356-2365; doi:10.1897/05-571R.1.

Huang CH and Sedlak DL. "Analysis of estrogenic hormones in municipal wastewater effluent and surface water using enzyme-linked immunosorbent assay and gas chromatography/tandem mass spectrometry." *Environmental Toxicology and Chemistry* **2001**, *20*(1):133-139.

Huang C-H, Dodd MC, and Shah AD. "Reaction and Transformation of Antibacterial Agents with Aqueous Chlorine under Relevant Water Treatment Conditions." in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press; Boca Raton, FL, 2007, Chapter 12, pp 261-290; http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Treatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#PPR8,M1.

Huang C-H, Renew JE, Pinkston K, and Sedlak DL. "Occurrence and Fate of Antibiotic Compounds in Municipal Wastewater and Animal Waste." in The Water Environment Federation 74th Annual Conference (WEFTEC), Atlanta, GA, 2001, 13 pp; http://people.ce.gatech.edu/~chuang/Huang%20et%20al_WEFTEC%20proceedeings%202001.pdf.

Huang C-H, Renew JE, Smeby K, Pinkston K, and Sedlak DL. "Assessment of potential antibiotic ontaminants in water and preliminary occurrence analysis." presented at 2nd International Conference on Pharmaceuticals and Endocrine Disrupting Chemicals in Water, 9-11 October, at Minneapolis, MN, 2001; http://www.ucowr.siu.edu/updates/pdfn/V120_A4.pdf.

Huang H and Sorial GA. "Perchlorate Remediation in Aquatic Systems by Zero Valent Iron." *Environmental Engineering Science* **2007**, *24*(7):917-926; doi:10.1089/ees.2006.0198.

Huang J, Huang K, and Yan C. "Application of an easily water-compatible hypercrosslinked polymeric adsorbent for efficient removal of catechol and resorcinol in aqueous solution." *Journal of Hazardous Materials* **2009**, *167*(1-3):69-74; doi:10.1016/j.jhazmat.2008.12.120.

Huang R, Wen B, Pei Z, Shan X-Q, Zhang S, and Williams PN. "Accumulation, Subcellular Distribution and Toxicity of Copper in Earthworm (Eisenia fetida) in the Presence of Ciprofloxacin." *Environmental Science & Technology* **2009**, *43*(10):3688-3693; doi:10.1021/es900061t.

Huang u-w, Twidwell DL, and Elrod JC. "Occurrence and Effects of Endocrine Disrupting Chemicals in the Environment." *Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management* **2003**, *7*(4):241-252.

Huang X, Lin J, Yuan D, and Hu R. "Determination of steroid sex hormones in wastewater by stir bar sorptive extraction based on poly(vinylpyridine-ethylene dimethacrylate) monolithic material, liquid chromatographic analysis." *Journal of Chromatography A* **2009**, *1216*(16):3508-3511; doi:10.1016/j.chroma.2008.10.083.

Huang X, Qiu N, Yuan D, and Lin Q. "Preparation of a mixed stir bar for sorptive extraction based on monolithic material for the extraction of quinolones from wastewater." *Journal of Chromatography A* **2009**, *In Press*; doi:10.1016/j.chroma.2009.09.072.

Huang YW, Matthews JB, Fertuck KC, and Zacharewski TR. "Use of Xenopus laevis as a model for investigating in vitro and in vivo endocrine disruption in amphibians." *Environmental Toxicology and Chemistry* **2005**, *24*(8):2002-2009; doi:10.1897/04-378R1.1.

Huang Y-W, Phillips JR, and Hunter LD. "Human exposure to medicinal, dietary, and environmental estrogens." *Toxicological and Environmental Chemistry* **2007**, *89*(1):141-160; doi:10.1080/02772240600952141.

Hubbard ML. "Analysis of the Oregon Stakeholder Drug Take Back Public Policy Process to Reduce Pharmaceutical Pollution in Oregon's Water Resources." Masters Dissertation, Oregon State University, Oceanic and Atmospheric Sciences, Corvallis, OR, 2007. 64 pp; http://hdl.handle.net/1957/6192.

Huber C, Bartha B, Harpaintner R, and Schröder P. "Metabolism of acetaminophen (paracetamol) in plants—two independent pathways result in the formation of a glutathione and a glucose conjugate." *Environmental Science and Pollution Research* **2009**, *16*(2):206-213; doi:10.1007/s11356-008-0095-z.

Huber MM. "Elimination of pharmaceuticals during oxidative treatment of drinking water and wastewater: application of ozone and chlorine dioxide." Doctoral Dissertation, Swiss Federal Institute of Technology Zurich, Zurich, Switzerland, 2004. 187 pp; http://e-collection.ethbib.ethz.ch/eserv/eth:27680/eth-27680-02.pdf.

Huber MM, Canonica S, Park GY, and von Gunten U. "Oxidation of Pharmaceuticals during Ozonation and Advanced Oxidation Processes." *Environmental Science & Technology* **2003**, *37*(5):1016-1024; doi:10.1021/es025896h.

Huber MM, Gobel A, Joss A, Hermann N, Loffler D, McArdell CS*, et al.* "Oxidation of pharmaceuticals during ozonation of municipal wastewater effluents: A pilot study." *Environmental Science & Technology* **2005**, *39*(11):4290-4299; doi:10.1021/es048396s.

Huber MM, Korhonen S, Ternes TA, and von Gunten U. "Oxidation of pharmaceuticals during water treatment with chlorine dioxide." *Water Research* **2005**, *39*(15):3607-3617; doi:10.1016/j.watres.2005.05.040.

Huber MM, Ternes TA, and von Gunten U. "Removal of estrogenic activity and formation of oxidation products during ozonation of 17α-ethinylestradiol." *Environmental Science & Technology* **2004**, *38*(19):5177-5186; doi:10.1021/es035205x.

Huber R, Smith K, Delago A, Isaksson K, and Kravitz EA. "Serotonin and aggressive motivation in crustaceans: altering the decision to retreat." *Proceedings of the National Academy of Sciences of the United States of America* **1997**, *94*(11):5939-5942.

Huber S. "Einfluss der prozessfuhrung auf menge und zusammensetzung von proteinen und polysacchariden im ablauf von sequencing-batch-reaktoren." *Berichte aus der Wasserggute und Abfallwirtschaft, Technische Universitat Munchen* **1999**, *152*.

Huber WG. "Antibacterial drugs as environmental contaminants [This reference was found to be cited in the work of others but its accuracy could not be verified]." in *Advances in Environmental Science and Technology*, Pitts JN and Metcalf RL, Eds., John Wiley and Sons; New York, 1971, pp 540; http://www.amazon.com/Advances-Environmental-Science-Technology/dp/0471064807.

Huckins JN, Tubergen MW, and Manuweera GK. "Semipermeable membrane devices containing model lipid: a new approach to monitoring the bioavailability of lipophilic contaminants and estimating their bioconcentration potential." *Chemosphere* **1990**, *20*(5):533-552.

Hudson KL, Holohan MK, and Collins FS. "Keeping Pace with the Times -- The Genetic Information Nondiscrimination Act of 2008." *New England Journal of Medicine* **2008**, *358*(25):2661-2663; doi:10.1056/NEJMp0803964.

Huerta-Fontela M, Galceran MT, Martin-Alonso J, and Ventura F. "Occurrence of psychoactive stimulatory drugs in wastewaters in north-eastern Spain." *Science of the Total Environment* **2008**, *397*(1-3):31-40; doi:10.1016/j.scitotenv.2008.02.057.

Huerta-Fontela M, Galceran MT, and Ventura F. "Ultraperformance liquid chromatography-tandem mass spectrometry analysis of stimulatory drugs of abuse in wastewater and surface waters." *Analytical Chemistry* **2007**, *79*(10):3821-3829; doi:10.1021/ac062370x.

Huerta-Fontela M, Galceran MT, and Ventura F. "Stimulatory Drugs of Abuse in Surface Waters and Their Removal in a Conventional Drinking Water Treatment Plant." *Environmental Science & Technology* **2008**, *42*(18):6809-6816; doi:10.1021/es800768h.

Huerta-Fontela M, Galceran MT, and Ventura F. "Fast Liquid Chromatography-Quadrupole-Linear Ion Trap Mass Spectrometry for the Analysis of Pharmaceuticals and Hormones in Water Resources." *Journal of Chromatography A* **2009**, *In Press*; doi:10.1016/j.chroma.2009.11.007.

Huerta-Fontela M and Ventura F. "Traceability of Emerging Contaminants from Wastewater to Drinking Water." *The Handbook of Environmental Chemistry* **2008**, *5, Part S1*:143-168; doi:10.1007/698_5_101.

Huestis MA, Cone EJ, Wong CJ, Umbricht A, and Preston KL. "Monitoring opiate use in substance abuse treatment patients with sweat and urine drug testing." *Journal of Analytical Toxicology* **2000**, *24*(7):509-521.

Huestis MA, Oyler JM, Cone EJ, Wstadik AT, Schoendorfer D, and Joseph RE. "Sweat testing for cocaine, codeine and metabolites by gas chromatography-mass spectrometry." *Journal of Chromatography B: Biomedical Sciences and Applications* **1999**, *733*(1-2):247-264.

Huestis MA, Scheidweiler KB, Saito T, Fortner N, Abraham T, Gustafson RA*, et al.* "Excretion of Δ9-tetrahydrocannabinol in sweat." *Forensic Science International* **2008**, *174*(2-3):173-177.

Huggett DB, Benson WH, Chipman K, Cook JC, Gray LE, Kinter LB*, et al.* "Role of mammalian data in determining pharmaceutical responses in aquatic species." in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Williams BG, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 5, pp 149-182.

Huggett DB, Brooks BW, Peterson B, Foran CM, and Schlenk D. "Toxicity of Select Beta Adrenergic Receptor-Blocking Pharmaceuticals (β-Blockers) on Aquatic Organisms." *Archives of Environmental Contamination and Toxicology* **2002**, *43*(2):229-235; doi:10.1007/s00244-002-1182-7.

Huggett DB, Cook JC, Ericson JF, and Williams RT. "A Theoretical Model for Utilizing Mammalian Pharmacology and Safety Data to Prioritize Potential Impacts of Human Pharmaceuticals to Fish." *Human and Ecological Risk Assessment* **2003**, *9*(7):1789-1799.

Huggett DB, Ericson JF, Cook JC, and Williams RT. "Plasma concentrations of human pharmaceuticals as predictors of pharmacological responses in fish." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 27, pp 373-386.

Huggett DB, Foran CM, Brooks BW, Weston J, Peterson B, Marsh KE*, et al.* "Comparison of in Vitro and in Vivo Bioassays for Estrogenicity in Effluent from North American Municipal Wastewater Facilities." *Toxicological Sciences* **2003**, *72*(1):77-83; doi:10.1093/toxsci/kfg017.

Huggett DB, Khan IA, Foran CM, and Schlenk D. "Determination of beta-adrenergic receptor blocking pharmaceuticals in United States wastewater effluent." *Environmental Pollution* **2003**, *121*(2):199-205; doi:10.1016/S0269-7491(02)00226-9.

Huggett R, Kimerle R, Mehrle P, and Bergman H, Eds., "Biomarkers: biochemical, physiological, and histological markers of anthropogenic stress." Lewis Publishers, Boca Raton (FL), 1992, 347 pp; http://bases.bireme.br/cgi-bin/wxislind.exe/iah/online/?IsisScript=iah/iah.xis&src=google&base=REPIDISCA&lang=p&nextAction=lnk&exprSearch=70601&indexSearch=ID.

Hughes EM and Gallagher EP. "Effects of 17-β estradiol and 4-nonylphenol on phase II electrophilic detoxification pathways in largemouth bass (Micropterus salmoides) liver." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2004**, *137*(3):237-247; doi:10.1016/j.cca.2004.01.006.

Hugo ER, Brandebourg TD, Woo JG, Loftus J, Alexander JW, and Ben-Jonathan N. "Bisphenol A at Environmentally Relevant Doses Inhibits Adiponectin Release from Human Adipose Tissue Explants and Adipocytes." *Environmental Health Perspectives* **2008**, *116*(12):1642-1647; doi:10.1289/ehp.11537.

Hühnerfuss H "Complete list of publications." http://www.chemie.uni-hamburg.de/oc/hfuss/publications.html.

Hűhnerfuss H, Biselli S, and Gatermann R. "Enantioselective analysis of polycyclic musks as a versatile tool for the understanding of environmental processes." in *Synthetic Musk Fragrances in the Environment*, Rimkus GG, Ed., Springer-Verlag; Heidelberg, 2004, pp 213-231.

Hühnerfuss H and Shah MR. "Enantioselective chromatography--A powerful tool for the discrimination of biotic and abiotic transformation processes of chiral environmental pollutants." *Journal of Chromatography A* **2009**, *1216*(3):481-502; doi:10.1016/j.chroma.2008.09.043.

Huizar J. "Unintended Consequences: The Effects of Pharmaceuticals in the Water Supplies - Part I." *California Water Law & Policy Reporter* **2000**, *11*(3):72-73.

Huizar J. "Pharmaceuticals in the Water Supplies: Regulations and Works-in-Progress - Part II." *California Water Law & Policy Reporter* **2001**, *11*(4):95-97.

Huizar J. "Pharmaceuticals in the Water Supplies - Part III." *California Water Law & Policy Reporter* **2001**, *11*(5):129-130.

Human Health Research Program "Risk Assessment for Chemical Mixtures." Web Page maintained by USEPA 2009, http://www.epa.gov/hhrp/quick_finder/chemical.html.

Hummel D, Loffler D, Fink G, and Ternes TA. "Simultaneous Determination of Psychoactive Drugs and Their Metabolites in Aqueous Matrices by Liquid Chromatography Mass Spectrometry." *Environmental Science & Technology* **2006**, *40*(23):7321-7328.

Hummel T, Mohammadian P, Marchl R, Kobal G, and Lotsch J. "Pain in the trigeminal system: irritation of the nasal mucosa using short- and long-lasting stimuli." *International Journal of Psychophysiology* **2003**, *47*:147-158.

Humphreys EH, Janssen S, Heil A, Hiatt P, Solomon G, and Miller MD. "Outcomes of the California ban on pharmaceutical lindane: clinical and ecologic impacts." *Environmental Health Perspectives* **2008**, *116*(3):297-302; doi:10.1289/ehp.10668.

Humphreys WG and Unger SE. "Safety Assessment of Drug Metabolites: Characterization of Chemically Stable Metabolites." *Chemical Research in Toxicology* **2006**, *19*(12):1564-1569; doi:10.1021/tx6002547.

Hun T. "Studies indicate drugs in water may come from effluent discharges." *Water Environment & Technology* **1998**, *10*(7):20-22.

Hundt K, Martin D, Hammer E, Jonas U, Kindermann MK, and Schauer F. "Transformation of triclosan by Trametes versicolor and Pycnoporus cinnabarinus." *Applied and Environmental Microbiology* **2000**, *66*(9):4157-4160.

Hung C-Y, Huang Y-T, Huang H-H, and Hwang C-C. "Sulfamethazine and Sulfadimethoxine Separation Strategies Based on Molecularly Imprinted Adsorbents." *Analytical Letters* **2007**, *40*(17):3232-3244; doi:10.1080/00032710701672707.

Hunot S and Flavell RA. "Death of a monopoly?" *Science* **2001**, *292*(5518):865-866; doi:10.1126/science.1060885.

Huo CX and Hickey P. "EDC demonstration programme in the UK--Anglian Water's approach." *Environmental Technology* **2007**, *28*(7):731-741.

Huo S-M, Yang H, and Deng A-P. "Development and validation of a highly sensitive ELISA for the determination of pharmaceutical indomethacin in water samples." *Talanta* **2007**, *73*(2):380-386; doi:10.1016/j.talanta.2007.03.055.

Huppert N, Wurtele M, and Hahn HH. "Determination of the plasticizer N-butylbenzenesulfonamide and the pharmaceutical Ibuprofen in wastewater using solid phase microextraction (SPME)." *Fresenius Journal of Analytical Chemistry* **1998**, *362*(6):529-536.

Hurle MA. "Changes in the expression of G protein-coupled receptor kinases and β-arrestin 2 in rat brain during opioid tolerance and

supersensitivity." *Journal of Neurochemistry* **2001**, *77*:486-492; doi:10.1046/j.1471-4159.2001.00268.x.

Husain S. "Literature overview: Emerging organic contaminants in water and their remediation." *Remediation Journal* **2008**, *18*(4):91-105; doi:10.1002/rem.20186.

Huschek G, Hanse PD, Maurer H-H, Drengel D, and Kayser A. "Environmental risk assessment of medicinal products for human use according to European commission recommendations." *Environmental Toxicology* **2004**, *19*(3):226-240.

Huschek G and Hansen PD. "Ecotoxicological classification of the Berlin river system using bioassays in respect to the European Water Framework Directive." *Environmental Monitoring and Assessment* **2006**, *121*(1-3):15-31; doi:10.1007/s10661-005-9061-0.

Hussain I, Zargham Khan M, Khan A, Javed I, and Kashif Saleemi M. "Toxicological effects of diclofenac in four avian species." *Avian Pathology* **2008**, *37*(3):315 - 321; doi:10.1080/03079450802056439.

Hutchins SR, White MV, Hudson FM, and Fine DD. "Addition/Correction: Analysis of lagoon samples from different concentrated animal feeding operations for estrogens and estrogen conjugates." *Environmental Science & Technology* **2007**, *41*(20):7192-7192; doi:10.1021/es071982b.

Hutchins SR, White MV, Hudson FM, and Fine DD. "Analysis of lagoon samples from different concentrated animal feeding operations for estrogens and estrogen conjugates." *Environmental Science & Technology* **2007**, *41*(3):738-744; doi:10.1021/es062234+.

Hutchinson T. "Small is useful in endocrine disrupter assessment—four key recommendations for aquatic invertebrate research." *Ecotoxicology* **2007**, *16*(1):231-238; doi:10.1007/s10646-006-0107-z.

Hutchinson T. "Assessing the environmental effects of human pharmaceuticals: current practice & opportunities for improved approaches." Tamiflu Workshop, AstraZeneca, Oxford, England, 3 October 2007.

Hutchinson T. "Realizing the potential benefits of small animal models for the aquatic hazard assessment of human pharmaceuticals: A conceptual approach." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 15, pp 245-255; doi:10.1007/978-3-540-74664-5_15; http://www.springerlink.com/content/w6104651231349p1/?p=97dfb90332264725bf4ef8a85570afc6&pi=14.

Hutchinson T, Kümmerer K, Servos M, and Williams RT. "Overview of research needs to improve the science supporting environmental stewardship of human pharmaceuticals." in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Willams RT, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 9, pp 303-312.

Hutchinson TH. "Reproductive and developmental effects of endocrine disrupters in invertebrates: in vitro and in vivo approaches." *Toxicology Letters* **2002**, *131*(1-2):75-81; doi:10.1016/S0378-4274(02)00046-2.

Hutchinson TH. "Impacts of endocrine disrupters on fish development: opportunities for adapting OECD Test Guideline 210." *Environmental Sciences (Tokyo)* **2002**, *9*(6):439-450.

Hutchinson TH. "Integrated in Vivo and in Vitro Assessment of Reproductive and Developmental Effects of Endocrine Disrupters in Invertebrates." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp 131-142; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Hutchinson TH, Ankley GT, Segner H, and Tyler CR. "Screening and testing for endocrine disruption in fish - Biomarkers as "signposts," not "traffic lights," in risk assessment." *Environmental Health Perspectives* **2006**, *114*(S-1):106-114.

Hutchinson TH, Barrett S, Buzby M, Constable D, Hartmann A, Hayes E*, et al.* "A strategy to reduce the numbers of fish used in acute ecotoxicity testing of pharmaceuticals." *Environmental Toxicology and Chemistry* **2003**, *22*(12):3031-3036; doi:10.1897/02-558.

Hutchinson TH, Beesley A, Frickers PE, Readman JW, Shaw JP, and Straub JO. "Extending the environmental risk assessment for oseltamivir (Tamiflu®) under pandemic use conditions to the coastal marine compartment." *Environment International* **2009**, *35*(6):931-936; doi:10.1016/j.envint.2009.04.001.

Hutchinson TH, Brown R, Brugger KE, Campbell P, M., Holt M, Lange R*, et al.* "Ecological risk assessment of endocrine disruptors." *Environmental Health Perspectives* **2002**, *108*(11):1007-1014.

Hutchinson TH and Pickford DB. "Ecological risk assessment and testing for endocrine disruption in the aquatic environment." *Toxicology* **2002**, *181-182*:383-387; doi:10.1016/S0300-483X(02)00471-7.

Hutchinson TH, Pounds NA, Hampel M, and Williams TD. "Life-cycle studies with marine copepods (tisbs battagliai) exposed to 20-hydroxyecdysone and diethylstilbestrol." *Environmental Toxicology and Chemistry* **1999**, *18*(12):2914-2920; doi:10.1897/1551-5028(1999)018<2914:LCSWMC>2.3.CO;2.

Hutchinson TH, Pounds NA, Hampel M, and Williams TD. "Impact of natural and synthetic steroids on the survival, development and reproduction of marine copepods (Tisbe battagliai)." *Science of the Total Environment* **1999**, *233*(1-3):167-179; doi:10.1016/S0048-9697(99)00223-5.

Hutchinson TH, Yokota H, Hagino S, and Ozato K. "Development of fish tests for endocrine disruptors." *Pure and Applied Chemistry* **2003**, *75*(11-12):2343-2353.

Hutter HP, Wallner P, Moshammer H, Hartl W, Sattelberger R, Lorbeer G*, et al.* "Synthetic musks in blood of healthy young adults: Relationship to cosmetics use." *Science of the Total Environment* **2009**, *407*(17):4821-4825; doi:10.1016/j.scitotenv.2009.05.026.

Huys G, Gevers D, Temmerman R, Cnockaert M, Denys R, Rhodes G*, et al.* "Comparison of the Antimicrobial Tolerance of Oxytetracycline-Resistant Heterotrophic Bacteria Isolated from Hospital Sewage and Freshwater Fishfarm Water in Belgium." *Systematic and Applied Microbiology* **2001**, *24*(1):122-130; doi:10.1078/0723-2020-00008.

Huys G, Rhodes G, McGann P, Denys R, Pickup R, Hiney M*, et al.* "Characterization of oxytetracycline-resistant heterotrophic bacteria originating from hospital and freshwater fishfarm environments in England and Ireland." *Systematic and Applied Microbiology* **2000**, *23*(4):599-606.

Hwang S, Lee D, Lee C, and Ahn I. "Oxidation of 17α-ethinylestradiol with Mn(III) and product identification." *Journal of Hazardous Materials* **2008**, *155*(1-2):334-341; doi:10.1016/j.jhazmat.2007.11.115.

Hydromantis Inc., Minnow Environmental Inc., and University of Waterloo Dept. of Civil Engineering. "Review of the State of Knowledge of Municipal Effluent Science and Research: Review of Effluent Substances." June, 2005, http://www.ccme.ca/assets/pdf/csr_rev_effluent_substances.pdf.

Hyma BA, Vega RS, Judd GC, Krauss RJ, Purdy JS, Thomas JC*, et al.* "Drugs Identified in Deceased Persons by Florida Medical Examiners - 2008 Interim Report." Medical Examiners Commission, Florida Department of Law Enforcement, November, 2008, 39 pp; http://www.fdle.state.fl.us/content/getdoc/036671bc-4148-4749-a891-7e3932e0a483/Publications.aspx.

Hyttel J. "Comparative pharmacology of selective serotonin re-uptake inhibitors (SSRIs)." *Nordic Journal of Psychiatry* **1996**, *47*(S30):5-12; doi:10.3109/08039489309104119.

Ibáñez M, Guerrero C, Sancho JV, and Hernández F. "Screening of antibiotics in surface and wastewater samples by ultra-high-pressure liquid chromatography coupled to hybrid quadrupole time-of-flight mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(12):2529-2539; doi:10.1016/j.chroma.2009.01.073.

ICON Consultants LTD. "Pollutants in urban waste water and sewage sludge." European Commission D-GE, London (for United Kingdom, Luxembourg: Office for Official Publications of the European Communities), 2001. 1-273 pp; http://www.environmental-center.com/articles/article1031/article1031.htm.

IES. "Emerging Contaminants." Institute for Environmental Solutions, 2008, http://www.i4es.org/emerging.html.

IFC. "Environmental, Health, and Safety Guidelines - PHARMACEUTICALS AND BIOTECHNOLOGY MANUFACTURING: Environmental, Health, and Safety Guidelines for Pharmaceuticals and Biotechnology Manufacturing." International Finance Corporation, 30 April, 2007, 21 pp; http://www.ifc.org/ifcext/sustainability.nsf/AttachmentsByTitle/gui_EHSGuidelines2007_Pharmaceuticals/$FILE/Final+-+Pharmaceuticals+and+Biotechnology+Mnfg.pdf.

Ifelebuegu AO, Lester JN, Churchley J, and Cartmell E. "Removal of an endocrine disrupting chemical (17α-ethinyloestradiol) from wastewater effluent by activated carbon adsorption: Effects of activated carbon type and competitive adsorption." *Environmental Technology* **2006**, *27*(12):1343-1349.

IFT Foundation. "Antimicrobial resistance: Implications for the food system. An expert report." *Comp Rev Food Sci Food Safety* **2006**, *5*(3):71-137; doi:10.1111/j.1541-4337.2006.00004.x.

Iglesias L, Saumell C, Fernández A, Fusé L, Lifschitz A, Rodríguez E*, et al.* "Environmental impact of ivermectin excreted by cattle treated in autumn on dung fauna and degradation of faeces on pasture." *Parasitology Research* **2006**, *100*(1):93-102; doi:10.1007/s00436-006-0240-x.

Iguchi T, Katsu Y, Urushitani H, Lange A, and Tyler CR. "Developmental reproductive effects of exposure to pharmaceutical steroids in the aquatic environment: Studies on mosquitofish (Gambusia affinis affinis), roach (Rutilus rutilus) and medaka (Oryzias latipes)." *Journal of Marine Science and Technology* **2007**, *15*:29-36.

Ihara I, Toyoda K, Beneragama N, and Umetsu K. "Magnetic separation of antibiotics by electrochemical magnetic seeding." *Journal of Physics: Conference Series* **2009**, *156*:012034; doi:10.1088/1742-6596/156/1/012034.

Ikeda M. "Multiple exposure to chemicals." *Regulatory Toxicology and Pharmacology* **1988**, *8*(4):414-421.

Ikeda SR. "Calcium channels—Link locally, act globally." *Science* **2001**, *294*(5541):318-319; doi:10.1126/science.1066160.

Ikehata K, El-Din MG, and Gochenour LN. "Health effects associated with wastewater treatment, disposal, and reuse." *Water Environment Research* **2006**, *78*(10):2086-2096; doi:10.2175/106143006X119512.

Ikehata K, El-Din MG, and Snyder SA. "Ozonation and Advanced Oxidation Treatment of Emerging Organic Pollutants in Water and Wastewater." *Ozone: Science & Engineering* **2008**, *30*(1):21 - 26; doi:10.1080/01919510701728970.

Ikehata K, Liu Y, and Sun R. "Health Effects Associated with Wastewater Treatment, Reuse, and Disposal." *Water Environment Research* **2009**, *81*(10):2126-2146; doi:10.2175/106143009X12445568400773.

Ikehata K, Naghashkar NJ, and Ei-Din MG. "Degradation of aqueous pharmaceuticals by ozonation and advanced oxidation processes: A review." *Ozone: Science & Engineering* **2006**, *28*(6):353-414; doi:10.1080/01919510600985937.

Ikunaka M. "A process in need is a process indeed: Scalable enantioselective synthesis of chiral compounds for the pharmaceutical industry." *ChemInform* **2003**, *9*(2):379-388; doi:10.1002/chin.200317245.

Ileri R, Sengil IA, Kulac S, and Damar Y. "Treatment of mixed pharmaceutical industry and domestic wastewater by sequencing batch reactor." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2003**, *38*(10):2101-2111; doi:10.1081/ESE-120023336.

Illinois EPA. "Report on Pharmaceuticals and Personal Care Products in Illinois Drinking Water Bureau of Water, Illinois EPA, June 2008." Bureau of Water, Illinois, June, 2008, http://www.epa.state.il.us/water/pharmaceuticals-in-drinking-water.pdf.

Illinois EPA "Disposal of unwanted or unused pharmaceuticals fact sheet." 2009, http://www.epa.state.il.us/land/hazardous-waste/household-haz-waste/pharmaceuticals-disposal.html.

Illinois General Assembly, Garrett S, Althoff PJ, Steans H, Bivins T, Hunter M*, et al.* 2009, "EPA-Household waste drop-off." Illinois General Assembly, http://www.ilga.gov/legislation/BillStatus.asp?DocNum=178&GAID=10&DocTypeID=SB&SessionID=76&GA=96.

Illinois General Assembly, Garrett S, Bivins T, Cronin D, and Rutherfort D. 2009, "Bill Status of SB1919: AN ACT concerning safety." Illinois General Assembly, http://www.ilga.gov/legislation/BillStatus.asp?DocNum=1919&GAID=10&DocTypeID=SB&SessionID=76&GA=96, http://www.ilga.gov/legislation/BillStatus.asp?DocNum=1919&GAID=10&DocTy.

Illinois-Indiana Sea Grant "Habitats and Ecosystems, Disposal of Unwanted Medicines: A Resource for Action in Your Community, unwantedmeds/updated Toolkit Materials." 2008, http://www.iisgcp.org/unwantedmeds/.

Imai S, Koyama J, and Fujii K. "Effects of 17β-estradiol on the reproduction of Java-medaka (Oryzias javanicus), a new test fish species." *Marine Pollution Bulletin* **2005**, *51*(8-12):708-714; doi:10.1016/j.marpolbul.2005.02.018.

Imperial Valley News. 2008, "Edmonds Pharmacy Manager of the Year Pleads Guilty - Oxycodone, Hydrocodone." http://www.imperialvalleynews.com/index.php?option=com_content&task=view&id=3222&Itemid=1.

IMS. "IMS Health Predicts 5 to 6 Percent Growth for Global Pharmaceutical Market in 2008, According to Annual Forecast." IMS Health Incorporated, 2008, http://www.imshealth.com/ims/portal/front/articleC/0,2777,6599_3665_82713022,00.html; http://imshealth.com/vgn/images/portal/CIT_40000873/56/41/83743752Global%20Pharmaceutical%20Sales%202000-2007.pdf.

Imus D. "The essential green you!" New York, NY, Simon & Schuster, 2009, 289 pp.

Inamori Y, Sugiura N, and Nakazawa M. "Developing the simulated aquatic microcosm for aquatic ecosystem and the impact assessment method for introducing microbial pharmaceuticals on the ecosystem using the model system." *Kasumigaura Suishitsu Joka Purojekuto Fezu 1 Kenkyu Seikashu Ibarakiken Chiiki Kesshugata Kyodo Kenkyu Jigyo Heisei 14nen* **2002**:41-45.

Inanc B, Calli B, Alp K, Ciner F, Mertoglu B, and Ozturk I. "Toxicity assessment on combined biological treatment of pharmaceutical industry effluents." *Water Science and Technology* **2002**, *45*(12):135-142.

Inciardi JA, Surratt HL, Kurtz SP, and Cicero TJ. "Mechanisms of prescription drug diversion among drug-involved club- and street-based populations." *Pain Medicine* **2007**, *8*(2):171-183; doi:10.1111/j.1526-4637.2006.00255.x.

INERIS, JRC-IES, and EA. "Workshop on Emerging Environmental Pollutants: Key Issues and Challenges." in Stresa, Italy, European Commission NORMAN Project, Institut National de l'Environnement Industriel et des Risques (France), Joint Research Centre – Institute for Environment and Sustainability (EC), Environment Agency for England and Wales (UK), 19-20 June, 2006, 124 pp; http://www.norman-network.net/public_docs/slides_stresa/norman-proceedings_web_.pdf.

Ingerslev F and Halling-Sørensen B. "Biodegradability properties of sulphonamides in activated sludge." *Environmental Toxicology and Chemistry* **2000**, *19*(10):2467-2473; doi:10.1897/1551-5028(2000)019<2467:BPOSIA>2.3.CO;2.

Ingerslev F and Halling-Sørensen B. "Biodegradability of metronidazole, olaqiondox, and tylosin, and formation of tylosin degradation products in aerobic soil/manure slurries." *Ecotoxicology and Environmental Safety* **2001**, *48*(3):311-320; doi:10.1006/eesa.2000.2026.

Ingerslev F, Torang L, Loke M-L, Halling-Sorensen B, and Nyholm N. "Primary biodegradation of veterinary antibiotics in aerobic and anaerobic surface water simulation systems." *Chemosphere* **2001**, *44*(4):865-872; doi:10.1016/S0045-6535(00)00479-3.

Ingerslev F, Vaclavik E, and Halling-Sorensen B. "Pharmaceuticals and personal care products: A source of endocrine disruption in the environment?" *Pure and Applied Chemistry* **2003**, *75*(11-12):1881-1893.

Ingrand V, Herry G, Beausse J, and de Roubin M-R. "Analysis of steroid hormones in effluents of wastewater treatment plants by liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2003**, *1020*(1):99-104; doi:10.1016/S0021-9673(03)00770-2.

Injac R, Kac J, Kreft S, and Strukelj B. "Determination of doxycycline in pharmaceuticals and human urine by micellar electrokinetic capillary chromatography." *Analytical and Bioanalytical Chemistry* **2007**, *387*(2):695-701; doi:10.1007/s00216-006-0900-9.

Innovations Report. "Selbstentsorger verfehlen gesetzliche Quoten für Arzneimittelverpackungen [This reference was found to be cited in the work of others but its accuracy could not be verified]." 26.09.2002, 26 September, 2002, http://www.innovationsreport.de/html/berichte/studien/bericht-13195.html.

Inoue K, Kawaguchi M, Okada F, Yoshimura Y, and Nakazawa H. "Column-switching high-performance liquid chromatography electrospray mass spectrometry coupled with on-line of extraction for the determination of mono- and di-(2-ethylhexyl) phthalate in blood samples." *Analytical and Bioanalytical Chemistry* **2003**, *375*(4):527-533; doi:10.1007/s00216-002-1709-9.

InsideEPA. "Wastewater, Health Groups Urge EPA To Limit Antibacterial Chemical's Uses." InsideEPA, 2008, 1 pp; http://insideepa.com/secure/docnum.asp?f=epa_2001.ask&docnum=7182008_wastewater.

InSideEPA. "Industry urges EPA to align pharmaceutical waste rules with DEA." InsideEPA, Washington, DC, 12 February, 2009, http://insideepa.com/secure/docnum.asp?f=epa_2001.ask&docnum=INSIDEEPA-30-6-11.

Inslee J and Moran J. 2009, "H.R. 1191: Safe Drug Disposal Act of 2009." Senate and House of Representatives of the United States of America in Congress, 7 pp; http://www.govtrack.us/congress/bill.xpd?bill=h111-1191.

Institut Umwelt-Sicherheits-Energietechnik UMSICHT, Tuerk J, Ploeger J, Kiffmeyer TK, Schmidt KG, Schoeppe G*, et al.* "Removal of pharmaceuticals by oxidative treatment of toilet effluents from hospital wards." Poster Presentation, 2008; http://www.veu.de/13147-Dateien/Poster/Poster_WWI_040330.pdf.

International Water Association, SAC, and SEPA Scottish Environment Protection Agency. "Agriculture and the environment VI Managing rural diffuse pollution." in SAC and SEPA Biennial Conference, Edinburgh, 5-6 April, 2006, 288 pp; http://www.sac.ac.uk/mainrep/pdfs/sacsepaproceedings.pdf#page=62.

Intorre L, Cecchini S, Bertini S, Cognetti Varriale AM, Soldani G, and Mengozzi G. "Pharmacokinetics of enrofloxacin in the seabass (Dicentrarchus labrax)." *Aquaculture* **2000**, *182*(1-2):49-59; doi:10.1016/S0044-8486(99)00253-7.

Inui M, Adachi T, Takenaka S, Inui H, Nakazawa M, Ueda M*, et al.* "Effect of UV screens and preservatives on vitellogenin and choriogenin production in male medaka (Oryzias latipes)." *Toxicology* **2003**, *194*(1-2):43-50; doi:10.1016/S0300-483X(03)00340-8.

Ioannou PC, Rusakova NV, Andrikopoulou DA, Glynou KM, and Tzompanaki GM. "Spectrofluorimetric determination of anthranilic acid derivatives based on terbium sensitized fluorescence." *Analyst* **1998**, *123*:2839-2843; doi:10.1039/a806093b.

IPA "TakeAway Environmental Return System." Web Page maintained by Iowa Pharmacy Association 2009, http://www.iarx.org/takeaway/.

IPCS "INCHEM: Chemical Safety Information from Intergovernmental Organizations." International Programme on Chemical Safety (IPCS) and the Canadian Centre for Occupational Health and Safety (CCOHS) 2009; http://www.inchem.org/.

IPCS "INCHEM: Poisons Information Monographs." International Programme on Chemical Safety (IPCS) 2009; http://www.inchem.org/pages/pims.html.

Ippen H. "Nitro musk." *International Archives of Occupational and Environmental Health* **1994**, *66*(4):283-285; doi:10.1007/BF00454368.

Irmak S, Erbatur O, and Akgerman A. "Degradation of 17β-estradiol and bisphenol A in aqueous medium by using ozone and ozone/UV techniques." *Journal of Hazardous Materials* **2005**, *126*(1-3):54-62; doi:10.1016/j.jhazmat.2005.05.045.

Irvine GD and Chin L. "The Environmental Impact and Adverse Health Effects of the Clandestine Manufacture of Methamphetamine." *Substance Use and Misuse* **1997**, *32*(12-13):1811-1816; doi:10.3109/10826089709035586.

Isacson D and Olofsson C. "Drugs up in smoke: a study of caseated drugs in Sweden." *Pharmacy World and Science* **1999**, *21*(2):96-99; doi:10.1023/A:1008626306770.

Isariebel Q-P, Carine J-L, Ulises-Javier J-H, Anne-Marie W, and Henri D. "Sonolysis of levodopa and paracetamol in aqueous solutions." *Ultrasonics Sonochemistry* **2009**, *16*(5):610-616; doi:10.1016/j.ultsonch.2008.11.008.

Ishibashi H, Hirano M, Matsumura N, Watanabe N, Takao Y, and Arizono K. "Reproductive effects and bioconcentration of 4-nonylphenol in medaka fish (Oryzias latipes)." *Chemosphere* **2006**, *65*(6):1019-1026; doi:10.1016/j.chemosphere.2006.03.034.

Ishibashi H, Matsumura N, Hirano M, Matsuoka M, Shiratsuchi H, Ishibashi Y*, et al.* "Effects of triclosan on the early life stages and reproduction of medaka Oryzias latipes and induction of hepatic vitellogenin." *Aquatic Toxicology* **2004**, *67*(2):167-179; doi:10.1016/j.aquatox.2003.12.005.

Ishikawa F, Shigeoka S, Nagashima M, Takahashi M, and Kamimura H. "Simultaneous determination of eleven dyes and their aluminum lakes in drugs." *Journal of AOAC International* **2003**, *86*(2):215-221.

Ishiyama I, Nagai T, Nagai T, Komuro E, Momose T, and Akimori N. "The significance of drug analysis of sweat in respect to rapid screening for drug abuse." *International Journal of Legal Medicine* **1979**, *82*(4):251-256; doi:10.1007/BF02092036.

Ishiyama T, Shimadu T, Nudeshima C, Hoshi J, and Sasaki Y. "Simple and rapid determination of estrogens and bisphenol A in water samples by high-performance liquid chromatography with electrochemical detection." *Bunseki Kagaku* **2004**, *53*(5):411-417.

Isidori M, Bellotta M, Cangiano M, and Parrella A. "Estrogenic activity of pharmaceuticals in the aquatic environment." *Environment International* **2009**, *35*(5):826-829; doi:10.1016/j.envint.2008.11.006.

Isidori M, Lavorgna M, Nardelli A, and Parrella A. "Toxicity on crustaceans and endocrine disrupting activity on Saccharomyces cerevisiae of eight alkylphenols." *Chemosphere* **2006**, *64*(1):135-143; doi:10.1016/j.chemosphere.2005.10.047.

Isidori M, Lavorgna M, Nardelli A, Parrella A, Previtera L, and Rubino M. "Ecotoxicity of naproxen and its phototransformation products." *Science of the Total Environment* **2005**, *348*(1-3):93-101; doi:10.1016/j.scitotenv.2004.12.068.

Isidori M, Lavorgna M, Nardelli A, Pascarella L, and Parrella A. "Toxic and genotoxic evaluation of six antibiotics on non-target organisms." *Science of the Total Environment* **2005**, *346*(1-3):87-98; doi:10.1016/j.scitotenv.2004.11.017.

Isidori M, Nardelli A, Parrella A, Pascarella L, and Previtera L. "A multispecies study to assess the toxic and genotoxic effect of

pharmaceuticals: Furosemide and its photoproduct." *Chemosphere* **2006**, *63*(5):785-793; doi:10.1016/j.chemosphere.2005.07.078.

Isidori M, Nardelli A, Pascarella L, Rubino M, and Parrella A. "Toxic and genotoxic impact of fibrates and their photoproducts on non-target organisms." *Environment International* **2007**, *33*(5):635-641; doi:10.1016/j.envint.2007.01.006.

Isidori M, Parrella A, Pistillo P, and Temussi F. "Effects of ranitidine and its photoderivatives in the aquatic environment." *Environment International* **2009**, *35*(5):821-825; doi:10.1016/j.envint.2008.12.002.

Islinger M, Willimski D, Volkl A, and Braunbeck T. "Effects of 17α-ethinylestradiol on the expression of three estrogen-responsive genes and cellular ultrastructure of liver and testes in male zebrafish." *Aquatic Toxicology* **2003**, *62*(2):85-103; doi:10.1016/S0166-445X(02)00049-8.

Islinger M, Yuan H, Voelkl A, and Braunbeck T. "Measurement of vitellogenin gene expression by RT-PCR as a tool to identify endocrine disruption in Japanese medaka (Oryzias latipes)." *Biomarkers* **2002**, *7*(1):80-93.

ISMP. "New fentanyl warnings: more needed to protect patients." *Institute of Safe Medicine Practice* **2005**, *11*(6):68.

Isobe T, Serizawa S, Horiguchi T, Shibata Y, Managaki S, Takada H*, et al.* "Horizontal distribution of steroid estrogens in surface sediments in Tokyo Bay." *Environmental Pollution* **2006**, *144*(2):632-638; doi:10.1016/j.envpol.2006.01.030.

Isobe T, Shiraishi H, Yasuda M, Shinoda A, Suzuki H, and Morita M. "Determination of estrogens and their conjugates in water using solid-phase extraction followed by liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2003**, *984*(2):195-202; doi:10.1016/S0021-9673(02)01851-4.

Isomaa B and Lilius H. "The urgent need for in vitro tests in ecotoxicology." *Toxicology In Vitro* **1995**, *9*(6):821-825; doi:10.1016/0887-2333(95)00085-2.

Iversen A, Kuhn I, Franklin A, and Mollby R. "High prevalence of vancomycin-resistant enterococci in Swedish sewage." *Applied and Environmental Microbiology* **2002**, *68*(6):2838-2842; doi:10.1128/AEM.68.6.2838-2842.2002.

Iversen ML. 2009, "Kloakken avslører kokainbruk: Oslo vest har brukt dobbelt så mye kokain som Oslo øst i år. Det viser nye prøver fra kloakken i hovedstaden [Sewage reveals cocaine use: Oslo West has spent twice as much cocaine as Oslo east this year. It shows the new samples from the sewage in the capital]." NRK, http://www.nrk.no/programmer/tv/schrodingers_katt/1.6849608.

Ivey M. "McFarland company has an answer for drug-polluted water." The Capital Times, 2008, 29 October http://www.madison.com/tct/business/311731.

Iwane T, Urase T, and Yamamoto K. "Possible impact of treated wastewater discharge on incidence of antibiotic resistant bacteria in river water." *Water Science and Technology* **2001**, *43*(2):91-99.

Iwanowicz LR, Blazer VS, Guy CP, Pinkney AE, Mullican JE, and Alvarez DA. "Reproductive health of bass in the potomac, usa, drainage: part 1. Exploring the effects of proximity to wastewater treatment plant discharge." *Environmental Toxicology and Chemistry* **2009**, *28*(5):1072-1083; doi:10.1897/08-433.1.

Iwasa M, Nakamura T, Fukaki K, and Yamashita N. "Nontarget Effects of Ivermectin on Coprophagous Insects in Japan." *Environmental Entomology* **2005**, *34*(6):1485-1492; doi:10.1603/0046-225X(2005)034[1485:NEOIOC]2.0.CO;2.

J.T. "Birth control for breakfast, anyone? - Brief Article." *Science News* **1999**, *156*(23):365.

Jackson J, Gillaspie J, and Jackson S. "Pharmaceutical Take-Back Programs: Moving from Local to National." *Proceedings of the Water Environment Federation* **2008**, *2008*:8339-8350.

Jackson J and Sutton R. "Sources of endocrine-disrupting chemicals in urban wastewater, Oakland, CA." *Science of the Total Environment* **2008**, *405*(1-3):153-160; doi:10.1016/j.scitotenv.2008.06.033.

Jackson WC, Kuckuck F, Edwards BS, Mammoli A, Gallegos CM, Lopez GP*, et al.* "Mixing small volumes for continuous high-throughput flow cytometry: Performance of a mixing Y and peristaltic sample delivery." *Cytometry* **2002**, *47*(3):183-191; doi:10.1002/cyto.10067.

Jacobi U, Waibler E, Schulze P, Sehouli J, Oskay-Ozcelik G, Schmook T*, et al.* "Release of doxorubicin in sweat: first step to induce the palmar-plantar erythrodysesthesia syndrome?" *Annals of Oncology* **2005**, *16*(7):1210-1211; doi:10.1093/annonc/mdi204.

Jacobs HE and Haarhoff J. "Prioritisation of parameters influencing residential water use and wastewater flow." *Journal of Water Supply: Research and Technology* **2007**, *56*(8):594-514.

Jacobs LE. "Photochemical transformation of three polycyclic aromatic hydrocarbons, ibuprofen, and caffeine in natural waters." Doctoral Dissertation, The Ohio State University, Columbus, Ohio, 2008. 137 pp.

Jacobs MN, Nolan GT, and Hood SR. "Lignans, bacteriocides and organochlorine compounds activate the human pregnane X receptor (PXR)." *Toxicology and Applied Pharmacology* **2005**, *209*(2):123-133; doi:10.1016/j.taap.2005.03.015.

Jacobsen AM and Halling-Sørensen B. "Multi-component analysis of tetracyclines, sulfonamides and tylosin in swine manure by liquid chromatography-tandem mass spectrometry." *Analytical and Bioanalytical Chemistry* **2006**, *384*(5):1164-1174; doi:10.1007/s00216-005-0261-9.

Jacobsen AM, Halling-Sorensen B, Ingerslev F, and Honore Hansen S. "Simultaneous extraction of tetracycline, macrolide and sulfonamide antibiotics from agricultural soils using pressurised liquid extraction, followed by solid-phase extraction and liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2004**, *1038*(1-2):157-170; doi:10.1016/j.chroma.2004.03.034.

Jacobsen A-M, Lorenzen A, Chapman R, and Topp E. "Persistence of testosterone and 17β-estradiol in soils receiving swine manure or municipal biosolids." *Journal of Environmental Quality* **2005**, *34*(3):861-871; doi:10.2134/jeq2004.0331.

Jacobsen BN, Kjersgaard D, Winther-Nielsen M, and Gustavson K. "Combined chemical analyses and biomonitoring at Avedoere wastewater treatment plant in 2002." *Water Science and Technology* **2004**, *50*(5):37-43.

Jacobsen CS, Sørensen SR, Juhler RK, Brüsch W, and Aamand J. "Emerging contaminants in Danish groundwater." Geological Survey of Denmark and Greenland Ministry of the Environment, 2005/49, August, 2005, 43 pp; http://www.geus.dk/geuspage-dk.htm?http://www.geus.dk/program-areas/water/denmark/rapporter/geus_rap_2005_49_1-dk.htm.

Jacobsen P and Berglind L. "Persistence of oxytetracycline in sediments from fish farms." *Aquaculture* **1988**, *70*(4):365-370; doi:10.1016/0044-8486(88)90120-2.

Jacobson BJ, Rock AR, Cohn MS, and Litovitz T. "Accidental ingestions of oral prescription drugs: a multicenter survey." *American Journal of Public Health* **1989**, *79*(7):853-856.

Jacoby M. "Fast separations for chiral drugs - New methods based solely on mass spec offer rapid analysis of enantiomeric mixtures." *Chemical & Engineering News* **2001**, *79*(21):68-69.

Jacobziner H and Raybin HW. "Improper disposal of drugs and household products." *New York State Journal of Medicine* **1959**, *59*:3631 3634.

Jaeger HM, Shinbrot T, and Umbanhowar PB. "Does the granular matter?" *Proceedings of the National Academy of Sciences of the United States of America* **2000**, *97*(24):12959-12960; doi:10.1073/pnas.230395897.

Jafari MT, Rezaei B, and Zaker B. "Ion Mobility Spectrometry as a Detector for Molecular Imprinted Polymer Separation and Metronidazole Determination in Pharmaceutical and Human Serum Samples." *Analytical Chemistry* **2009**, *81*(9):3585-3591; doi:10.1021/ac802557t.

Jain R, Bhargava M, and Sharma N. "Electrochemical studies on a pharmaceutical azo dye: Tartrazine." *Industrial and Engineering Chemistry Research* **2003**, *42*(2):243-247; doi:10.1021/ie020228q.

Jakobsen L, Sandvang D, Hansen LH, Bagger-Skjøt L, Westh H, Jørgensen C*, et al.* "Characterisation, dissemination and persistence of gentamicin [sic] resistant Escherichia coli from a Danish university hospital to the waste water environment." *Environment International* **2008**, *34*(1):108-115; doi:10.1016/j.envint.2007.07.011.

James MO. "Overview of in vitro metabolism of drugs by aquatic species." *Veterinary and Human Toxicology* **1986**, *28*(Supplement 1):2-8.

James MO. "Conjugation of organic pollutants in aquatic species." *Environmental Health Perspectives* **1987**, *71*:97-103.

James MO and Boyle SM. "Cytochromes P450 in crustacea." *Comparative Biochemistry and Physiology C: Pharmacology Toxicology and Endocrinology* **1998**, *121*:157-172; doi:10.1016/S0742-8413(98)10036-1.

James TH, Helms ML, and Braund R. "Analysis of Medications Returned to Community Pharmacies." *Annals of Pharmacotherapy* **2009**, *43*(10):1631-1635; doi:10.1345/aph.1M209.

Janer G and Porte C. "Sex steroids and potential mechanisms of non-genomic endocrine disruption in invertebrates." *Ecotoxicology* **2007**, *16*(1):145-160; doi:10.1007/s10646-006-0110-4.

Janex ML, Bruchet A, Levi Y, and Ternes TA. "Pharmaceutical Compounds: Occurrence in the Environment and Fate in Drinking Water Treatment." in AWWA WQTC57144 - 2002 Water Quality Technology Conference, Seattle, WA, American Water Works Association (AWWA), 9-13 November, 2002, 1625-1634 pp; http://www.techstreet.com/cgi-bin/detail?product_id=1040981, http://www.techstreet.com/cgi-bin/results.

Janex-Habibi M-L, Huyard A, Esperanza M, and Bruchet A. "Reduction of endocrine disruptor emissions in the environment: the benefit of wastewater treatment." *Water Research* **2009**, *43*(6):1565-1576; doi:10.1016/j.watres.2008.12.051.

Jang Y-C, Lee C, Yoon O-S, and Kim H. "Medical waste management in Korea." *Journal of Environment Management* **2006**, *80*(2):107-115; doi:10.1016/j.jenvman.2005.08.018.

Jank M, Koser H, Lucking F, Martienssen M, and Wittchen S. "Decolorization and degradation of Erioglaucine (acid blue 9) dye in wastewater." *Environmental Technology* **1998**, *19*(7):741-747; doi:10.1080/09593331908616730.

Jansen JlC and Ledin A. "Sustainable Wastewater Treatment." in *A Healthy Future- Pharmaceuticals in a Sustainable Society*, collaborative publication of Apoteket AB, MistraPharma, and Stockholm County Council; Sweden, 2009, Chapter 9, pp 166-179; http://www.epa.gov/nerlesd1/bios/daughton/Pharmaceuticals-Sustainability-2009.pdf.

Janssen Ortho. "ORTHO EVRA (norelgestromin / ethinyl estradiol TRANSDERMAL SYSTEM)." Ortho-McNeil-Janssen-Pharmaceuticals, Inc., 10154403, October, 2008, 65 pp; http://www.orthoevra.com/orthoevra/shared/shared/pi/OrthoEvraPI.pdf.

Janusz A, Kirkbride KP, Scott TL, Naidu R, Perkins MV, and Megharaj M. "Microbial degradation of illicit drugs, their precursors, and manufacturing by-products: implications for clandestine drug laboratory investigation and environmental assessment." *Forensic Science International* **2003**, *134*(1):62-71; doi:10.1016/S0379-0738(03)00110-5.

Janzen N, Banzhaf S, Scheytt T, and Bester K. "Vertical flow soil filter for the elimination of micro pollutants from storm and waste water." *Chemosphere* **2009**, *77*(10):1358-1365; doi:10.1016/j.chemosphere.2009.09.024.

Jardé E, Gruau G, and Jaffrezic A. "Tracing and Quantifying Sources of Fatty Acids and Steroids in Amended Cultivated Soils." *Journal of Agricultural and Food Chemistry* **2009**, *57*(15):6950-6956; doi:10.1021/jf901238g.

Jarnheimer PA, Ottoson J, Lindberg R, Stenstrom TA, Johansson M, Tysklind M*, et al.* "Fluoroquinolone antibiotics in a hospital sewage line; Occurrence, distribution and impact on bacterial resistance." *Scandinavian Journal of Infectious Diseases* **2004**, *36*(10):752-755; doi:10.1080/00365540410021027.

Jarosz F. 2009, "Scores of Indiana homes contaminated by meth labs sit abandoned: Contaminated by meth production, scores of Indiana homes abandoned After labs are busted, no one enforces cleanup." indystar.com, Community Star Network, http://www.indy.com/posts/scores-of-indiana-homes-contaminated-by-meth-labs-sit-abandoned.

Jarvie ME and Hand DW. "Predicting Influent Estradiol and Estrone Concentrations for Wastewater Treatment Facilities." *Water Environment Research* **2009**, *81*(2):131-139; doi:10.2175/106143008X274257.

Jarvis CI, Seed SM, Silva M, and Sullivan KM. "Educational campaign for proper medication disposal." *Journal of the American Pharmacists Association* **2009**, *49*(1):65-68.

Jaser W, Severin GF, Jutting U, Juttner I, Schramm KW, and Kettrup A. "Effects of 17α-ethinylestradiol on the reproduction of the cladoceran species Ceriodaphnia reticulata and Sida crystalline." *Environment International* **2003**, *28*(7):633-638; doi:10.1016/S0160-4120(02)00101-0.

Jasim SY, Hua W, Letcher R, Schwietzer L, Lemieux F, Mazloum S*, et al.* "Endocrine disrupters chemicals (EDCs) presence in water supplies and effect of treatment process on removal – A Great Lakes Region Concern." in 2004 WQTC-AWWA, Philadelphia, PA, 2-6 November, 2003.

Jasim SY, Irabelli A, Yang P, Ahmed S, and Schweitzer L. "Presence of pharmaceuticals and pesticides in Detroit River water and the effect of ozone on removal." *Ozone: Science & Engineering* **2006**, *28*(6):415-423; doi:10.1080/01919510600985945.

Jasim SY, Mazloum S, Grimm D, and Boyd GR. "Evaluation of the presence of endocrine disrupters chemicals (EDCs) in Detroit River and the effect of water treatment processes on their removal." in 16th World Congress-International Ozone Association, Las Vegas, NV, 31 August-5 September, 2003.

Javier Benitez F, Acero JL, Real FJ, and Roldán G. "Ozonation of pharmaceutical compounds: Rate constants and elimination in various water matrices." *Chemosphere* **2009**, *77*(1):53-59; doi:10.1016/j.chemosphere.2009.05.035.

Jaworek A, Balachandran W, Krupa A, Kulon J, and Lackowski M. "Wet Electroscrubbers for State of the Art Gas Cleaning." *Environmental Science & Technology* **2006**, *40*(20):6197-6207.

Jeannot R, Sabik H, Sauvard E, Dagnac T, and Dohrendorf K. "Determination of endocrine-disrupting compounds in environmental samples using gas and liquid chromatography with mass spectrometry." *Journal of Chromatography A* **2002**, *974*(1-2):143-159; doi:10.1016/S0021-9673(02)01240-2.

JECFA. "Toxicological evaluation of certain veterinary drug residues in food." in *WHO Food Additives Series: 51*, Joint FAO/WHO Expert Committee on Food Additives; Geneva, Switzerland, 2003, pp 77 pp.

Jedd G and Chua NH. "Visualization of peroxisomes in living plant cells reveals acto-myosin-dependent cytoplasmic streaming and peroxisome budding." *Plant & Cell Physiology* **2002**, *43*(4):384-392.

Jeffries KM, Nelson ER, Jackson LJ, and Habibi HR. "Basin-wide impacts of compounds with estrogen-like activity on longnose dace (rhinichthys cataractae) in two prairie rivers of Alberta, Canada." *Environmental Toxicology and Chemistry* **2008**, *27*(10):2042-2052; doi:10.1897/07-529.1.

Jelić A, Petrović M, and Barceló D. "Multi-residue method for trace level determination of pharmaceuticals in solid samples using pressurized liquid extraction followed by Liquid Chromatography/Quadrupole-Linear Ion Trap Mass Spectrometry." *Talanta* **2009**, *80*(1):363-371; doi:10.1016/j.talanta.2009.06.077.

Jelicic I and Ahel M. "Occurrence of phenazone analgesics and caffeine in Croatian municipal wastewaters." *Fresenius Environmental Bulletin* **2003**, *12*(1):46-50.

Jenčič V, Černe M, Eržen N, Kobal S, and Cerkvenik-Flajs V. "Abamectin effects on rainbow trout (Oncorhynchus mykiss)." *Ecotoxicology* **2006**, *15*(3):249-257; doi:10.1007/s10646-006-0056-6.

Jenkins MB, Endale DM, Schomberg HH, Hartel PG, and Cabrera ML. "17β-estradiol and testosterone in drainage and runoff from poultry litter applications to tilled and no-till crop land under irrigation." *Journal of Environmental Management* **2009**, *90*(8):2659-2664; doi:10.1016/j.jenvman.2009.02.003.

Jenkins MB, Endale DM, Schomberg HH, and Sharpe RR. "Fecal bacteria and sex hormones in soil and runoff from cropped watersheds amended with poultry litter." *Science of the Total Environment* **2006**, *358*(1-3):164-177; doi:10.1016/j.scitotenv.2005.04.015.

Jenkins RL, Wilson EM, Angus RA, Howell WM, and Kirk M. "Androstenedione and progesterone in the sediment of a river receiving paper mill effluent." *Toxicological Sciences* **2003**, *73*(1):53-59.

Jensen J. "Veterinary medicines and soil quality: the Danish situation as an example." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 16, pp 282-302; doi:10.1021/bk-2001-0791.ch016; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Jensen J, Diao X, and Hansen AD. "Single- and two-species tests to study effects of the anthelmintics ivermectin and morantel and the coccidiostatic monensin on soil invertebrates." *Environmental Toxicology and Chemistry* **2009**, *28*(2):316-323; doi:10.1897%2F08-069.1.

Jensen J, Krogh PH, and Sverdrup LE. "Effects of the antibacterial agents tiamulin, olanquindox and metronidazole and the anthelmintic ivermectin on the soil invertebrate species Folsomia fimetaria (Collembola) and Enchytraeus crypticus (Enchytraeidae)." *Chemosphere* **2003**, *50*(3):437-443; doi:10.1016/S0045-6535(02)00336-3.

Jensen KM, Makynen EA, Kahl MD, and Ankley GT. "Effects of the feedlot contaminant 17α-trenbolone on reproductive endocrinology of the fathead minnow." *Environmental Science & Technology* **2006**, *40*(9):3112-3117; doi:10.1021/es052174s.

Jensen LB, Baloda S, Boye M, and Aarestrup FM. "Antimicrobial resistance among Pseudomonas spp. and the Bacillus cereus group

isolated from Danish agricultural soil." *Environment International* **2001**, *26*(7-8):581-587; doi:10.1016/S0160-4120(01)00045-9.

Jeon H-K, Chung Y, and Ryu J-C. "Simultaneous determination of benzophenone-type UV filters in water and soil by gas chromatography-mass spectrometry." *Journal of Chromatography A* **2006**, *1131*(1-2):192-202; doi:10.1016/j.chroma.2006.07.036.

Jermann D, Pronk W, Boller M, and Schäfer AI. "The role of NOM fouling for the retention of estradiol and ibuprofen during ultrafiltration." *Journal of Membrane Science* **2009**, *329*(1-2):75-84; doi:10.1016/j.memsci.2008.12.016.

Jessica D, Robert M, Frédéric S, Arnaud B, Delphine L, Jean-Pierre T*, et al.* "Do sewage treatment plant discharges substantially impair fish reproduction in polluted rivers?" *Science of the Total Environment* **2007**, *372*(2-3):497-514; doi:10.1016/j.scitotenv.2006.08.020.

Jessing KK, Cedergreen N, Jensen J, and Hansen HCB. "Degradation and Ecotoxicity of the Biomedical Drug Artemisinin in Soil." *Environmental Toxicology and Chemistry* **2009**, *In Press*; doi:10.1897/08-153.1.

Jesson J, Pocock R, and Wilson K. "Reducing medicines waste in the community." *Primary Health Care Research & Development* **2005**, *6*(2):117-124.

Ji L, Chen W, Duan L, and Zhu D. "Mechanisms for strong adsorption of tetracycline to carbon nanotubes: A comparative study using activated carbon and graphite as adsorbents." *Environmental Science & Technology* **2009**, *43*(7):2322-2327; doi:10.1021/es803268b.

Jia A, Xiao Y, Hu J, Asami M, and Kunikane S. "Simultaneous determination of tetracyclines and their degradation products in environmental waters by liquid chromatography-electrospray tandem mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(22):4655-4662; doi:10.1016/j.chroma.2009.03.073.

Jia X, Shao B, Wu Y, Yang Y, and Zhang J. "Simultaneous determination of tetracylines [sic] and quinolones antibiotics in egg by ultra-performance liquid chromatography-electrospray tandem mass spectrometry." *Journal of AOAC International* **2008**, *91*(2):461-468.

Jiang GQ and Zhang BB. "PI 3-kinase and its up- and down-stream modulators as potential targets for the treatment of type II diabetes." *Frontiers in Bioscience* **2002**, *7*:D903-D917.

Jiang J, Pang S-Y, and Ma J. "Oxidation of Triclosan by Permanganate (Mn(VII)): Importance of Ligands and In Situ Formed Manganese Oxides." *Environmental Science & Technology* **2009**, *43*(21):8326-8331; doi:10.1021/es901663d.

Jiang JQ, Yin Q, Pearce P, and Zhou JL. "A survey of endocrine disrupting chemicals in sewage and a preliminary treatment trial." *Water Science and Technology* **2005**, *52*(8):1-7.

Jiang JQ, Yin Q, Zhou JL, and Pearce P. "Occurrence and treatment trials of endocrine disrupting chemicals (EDCs) in wastewaters." *Chemosphere* **2005**, *61*(4):544-550; doi:10.1016/j.chemosphere.2005.02.029.

Jiang S, Chen Y, and Zhou Q. "Influence of alkyl sulfates on waste activated sludge fermentation at ambient temperature." *Journal of Hazardous Materials* **2007**, *148*(1-2):110-115; doi:10.1016/j.jhazmat.2007.02.016.

Jiao S, Zheng S, Yin D, Wang L, and Chen L. "Aqueous photolysis of tetracycline and toxicity of photolytic products to luminescent bacteria." *Chemosphere* **2008**, *73*(3):377-382; doi:10.1016/j.chemosphere.2008.05.042.

Jiao S, Zheng S, Yin D, Wang L, and Chen L. "Aqueous oxytetracycline degradation and the toxicity change of degradation compounds in photoirradiation process." *Journal of Environmental Sciences (China)* **2008**, *20*(7):806-813; doi:10.1016/S1001-0742(08)62130-0.

Jiménez-Gonzales C, Curzons AD, Constable DJC, and Cunningham VL. "Cradle-to-Gate Life Cycle Inventory and Assessment of Pharmaceutical Compounds." *International Journal of Life Cycle Assessment* **2004**, *9*(2):114; doi:10.1065/lca2003.11.141.

Jiménez-González C. "Life Cycle Assessment in Pharmaceutical Applications." Doctoral Dissertation, North Carolina State University, Raleigh, NC, 2000. 278 pp; http://www.lib.ncsu.edu/theses/available/etd-20020207-155355/.

Jiménez-González C, Constable D, Curzons A, and Cunningham V. "Developing GSK's green technology guidance: methodology for case-scenario comparison of technologies." *Clean Technologies and Environmental Policy* **2002**, *4*(1):44-53; doi:10.1007/s10098-001-0134-7.

Jiménez-González C, Curzons AD, Constable DJC, Overcash MR, and Cunningham VL. "How do you select the “greenest”

technology? Development of guidance for the pharmaceutical industry." *Clean Technologies and Environmental Policy* **2001**, *3*(1):35-41; doi:10.1007/PL00011310.

Jin H, Kumar AP, Paik D-H, Ha K-C, Yoo Y-J, and Lee Y-I. "Trace analysis of tetracycline antibiotics in human urine using UPLC-QToF mass spectrometry." *Microchemical Journal* **2009**, *In Press*; doi:10.1016/j.microc.2009.10.010.

Jin S, Yang F, Liao T, Hui Y, and Xu Y. "Seasonal variations of estrogenic compounds and their estrogenicities in influent and effluent from a municipal sewage treatment plant in China." *Environmental Toxicology and Chemistry* **2008**, *27*(1):146-153; doi:10.1897/07-072.1.

Jin X, Hu J, and Ong SL. "Removal of Natural Hormone Estrone from Secondary Effluents using Nanofiltration and Reverse Osmosis." *Water Research* **2009**, *In press*; doi:10.1016/j.watres.2009.09.057.

Jin X, Hu JY, Tint ML, Ong SL, Biryulin Y, and Polotskaya G. "Estrogenic compounds removal by fullerene-containing membranes." *Desalination* **2007**, *214*(1-3):83-90.

Jin Y, Chen R, Sun L, Qian H, Liu W, and Fu Z. "Induction of estrogen-responsive gene transcription in the embryo, larval, juvenile and adult life stages of zebrafish as biomarkers of short-term exposure to endocrine disrupting chemicals." *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* **2009**, *150*(3):414-420; doi:10.1016/j.cbpc.2009.06.006.

Jindal A, Kocherginskaya S, Mehboob A, Robert M, Mackie RI, Rasking L*, et al.* "Antimicrobial use and resistance in swine waste treatment systems." *Applied and Environmental Microbiology* **2006**, *72*(12):7813-7820; doi:10.1128/AEM.01087-06.

Jiskra M. "Fate of the pharmaceutical diclofenac in the aquatic environment." 2007, 16 pp; http://www.up.ethz.ch/education/term_paper/termpaper_hs07/JISKRA_rev_termpaper_hs07.pdf.

Jjemba PK. "The effect of chloroquine, quinacrine, and metronidazole on both soybean plants and soil microbiota." *Chemosphere* **2002**, *46*(7):1019-1025; doi:10.1016/S0045-6535(01)00139-4.

Jjemba PK. "The potential impact of veterinary and human therapeutic agents in manure and biosolids on plants grown on arable land: a review." *Agriculture, Ecosystems & Environment* **2002**, *93*(1-3):267-278; doi:10.1016/S0167-8809(01)00350-4.

Jjemba PK. "Excretion and ecotoxicity of pharmaceutical and personal care products in the environment." *Ecotoxicology and Environmental Safety* **2006**, *63*(1):113-130; doi:10.1016/j.ecoenv.2004.11.011.

Jjemba PK. "Pharma-ecology: the occurrence and fate of pharmaceuticals and personal care products in the environment." John Wiley & Sons, Inc., 2008, 314 pp; http://www.wiley.com/WileyCDA/WileyTitle/productCd-0470046309,descCd-description.html.

Jjemba PK and Robertson BK. "Antimicrobial Agents with Improved Clinical Efficacy versus Their Persistence in the Environment: Synthetic 4-Quinolone As an Example." *EcoHealth Journal* **2005**, *2*(3):171-182; doi:10.1007/s10393-005-6328-4.

Jobling S, Beresford N, Nolan M, Rodgers-Gray T, Brighty GC, Sumpter JP*, et al.* "Altered Sexual Maturation and Gamete Production in Wild Roach (Rutilus rutilus) Living in Rivers That Receive Treated Sewage Effluents." *Biology of Reproduction* **2002**, *66*(2):272-281; doi:10.1095/biolreprod66.2.272.

Jobling S, Burn RW, Thorpe K, Williams R, and Tyler C. "Statistical Modelling Suggests That Anti-Androgens in Wastewater Treatment Works Effluents are Contributing Causes of Widespread Sexual Disruption in Fish Living in English Rivers." *Environmental Health Perspectives* **2009**, *117*(5):797-802; doi:10.1289/ehp.0800197.

Jobling S, Casey D, Rodgers-Gray T, Oehlmann J, Schulte-Oehlmann U, Pawlowski S*, et al.* "Comparative responses of molluscs and fish to environmental estrogens and an estrogenic effluent." *Aquatic Toxicology* **2004**, *66*(2):207-222; doi:10.1016/j.aquatox.2004.01.002.

Jobling S, Casey D, Rodgers-Gray T, Oehlmann J, Schulte-Oehlmann U, Pawlowski S*, et al.* "Erratum to "Comparative responses of molluscs and fish to environmental estrogens and an estrogenic effluent": [Aquatic Toxicology 65 (2003) 205-220]." *Aquatic Toxicology* **2004**, *66*(2):205; doi:10.1016/S0166-445X(03)00134-6.

Jobling S, Nolan M, Tyler CR, Brighty G, and Sumpter JP. "Widespread Sexual Disruption in Wild Fish." *Environmental Science & Technology* **1998**, *32*(17):2498-2506.

Jobling S, Sheahan D, Osborne JA, Matthiessen P, and Sumpter JP. "Inhibition of testicular growth in rainbow trout (oncorhynchus mykiss) exposed to estrogenic alkylphenolic chemicals." *Environmental Toxicology and Chemistry* **1996**, *15*(2):194-202;

doi:10.1897/1551-5028(1996)015<0194:IOTGIR>2.3.CO;2.

Jobling S and Tyler CR. "Endocrine disruption in wild freshwater fish." *Pure and Applied Chemistry* **2003**, *75*(11-12):2219-2234.

Jobling S and Tyler CR. "Introduction: The ecological relevance of chemically induced endocrine disruption in wildlife." *Environmental Health Perspectives* **2006**, *114*(S-1):7-8; doi:10.1289/ehp.8046.

Jobling S, Williams R, Johnson A, Taylor A, Gross-Sorokin M, Nolan M*, et al.* "Predicted exposures to steroid estrogens in U.K. rivers correlate with widespread sexual disruption in wild fish populations." *Environmental Health Perspectives* **2006**, *114 Suppl 1*:32-39.

Joenks K. "Improper pharmaceutical disposal and effecting change in environmental health." *Iowa Nurses Reporter* **2007**, (March):4.

Johansson N and Mollby R. "Antibiotics in the environment." in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 5, pp 72-82; http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Johnson A and Carey B. "Quality Assurance Project Plan: Screening for Pharmaceuticals in Wastewater Treatment Plant Effluents, Groundwater, and Surface Water in the Sequim-Dungeness Area." Washington State Department of Ecology Environmental Assessment Program, 04-03-104, Olympia, Washington, February 2004. 24 pp; http://www.ecy.wa.gov/biblio/0403104.html.

Johnson A, Carey B, and Golding S. "Results of a screening analysis for pharmaceuticals in wastewater treatment plant effluents, wells, and creeks in the Sequium-Dungeness area." Washington State Department of Ecology Environmental Assessment Program, 04-03-051, Olympia, WA, November 2004. 34 pp; http://www.ecy.wa.gov/biblio/0403051.html.

Johnson AC, Aerni HR, Gerritsen A, Gibert M, Giger W, Hylland K*, et al.* "Comparing steroid estrogen, and nonylphenol content across a range of European sewage plants with different treatment and management practices." *Water Research* **2005**, *39*(1):47-58; doi:10.1016/j.watres.2004.07.025.

Johnson AC, Belfroid A, and Di Corcia A. "Estimating steroid oestrogen inputs into activated sludge treatment works and observations on their removal from the effluent." *Science of the Total Environment* **2000**, *256*(2-3):163-173; doi:10.1016/S0048-9697(00)00481-2.

Johnson AC, Jurgens MD, Williams RJ, Kümmerer K, Kortenkamp A, and Sumpter JP. "Do cytotoxic chemotherapy drugs discharged into rivers pose a risk to the environment and human health? An overview and UK case study." *Journal of Hydrology* **2008**, *348*(1-2):167-175; doi:10.1016/j.jhydrol.2007.09.054.

Johnson AC, Keller V, Williams RJ, and Young A. "A practical demonstration in modelling diclofenac and propranolol river water concentrations using a GIS hydrology model in a rural UK catchment." *Environmental Pollution* **2007**, *146*(1):155-165; doi:10.1016/j.envpol.2006.05.037.

Johnson AC and Sumpter JP. "Removal of endocrine-disrupting chemicals in activated sludge treatment works." *Environmental Science & Technology* **2001**, *35*(24):4697-4703.

Johnson AC, Ternes T, Williams RJ, and Sumpter JP. "Assessing the Concentrations of Polar Organic Microcontaminants from Point Sources in the Aquatic Environment: Measure or Model?" *Environmental Science & Technology* **2008**, *42*(15):5390-5399.

Johnson AC and Williams RJ. "A model to estimate influent and effluent concentrations of estradiol, estrone, and ethinylestradiol at sewage treatment works." *Environmental Science & Technology* **2004**, *38*(13):3649-3658; doi:10.1021/es035342u.

Johnson AC, Williams RJ, and Matthiessen P. "The potential steroid hormone contribution of farm animals to freshwaters, the United Kingdom as a case study." *Science of the Total Environment* **2006**, *362*(1-3):166-178; doi:10.1016/j.scitotenv.2005.06.014.

Johnson AC, Williams RJ, Simpson P, and Kanda R. "What difference might sewage treatment performance make to endocrine disruption in rivers?" *Environmental Pollution* **2007**, *147*(1):194-202; doi:10.1016/j.envpol.2006.08.032.

Johnson AC, Williams RJ, and Ulahannan T. "Comment on 'Identification of estrogenic chemicals in STW effluent. 1. Chemical Fractionation and in vitro biological screening." *Environmental Science & Technology* **1999**, *33*(2):369-370; doi:10.1021/es9809197.

Johnson DJ. "Risk assessment of selective serotonin reuptake inhibitors: comparing methods in tiered environmental risk assessment." Masters Dissertation, University of Guelph, Guelph, Ontario, Canada, 2004. 112 pp.

Johnson DJ, Sanderson H, Brain RA, Wilson CJ, Bestari KT, and Solomon KR. "Exposure assessment and microcosm fate of selected selective serotonin reuptake inhibitors." *Regulatory Toxicology and Pharmacology* **2005**, *42*(3):313-323; doi:10.1016/j.yrtph.2005.05.010.

Johnson DJ, Sanderson H, Brain RA, Wilson CJ, and Solomon KR. "Toxicity and hazard of selective serotonin reuptake inhibitor antidepressants fluoxetine, fluvoxamine, and sertraline to algae." *Ecotoxicology and Environmental Safety* **2007**, *67*(1):128-139; doi:10.1016/j.ecoenv.2006.03.016.

Johnson DR, Czechowska K, Chèvre N, and van der Meer JR. "Toxicity of triclosan, penconazole and metalaxyl on Caulobacter crescentus and a freshwater microbial community as assessed by flow cytometry." *Environmental Microbiology* **2009**, *11*(7):1682-1691; doi:10.1111/j.1462-2920.2009.01893.x.

Johnson E. "Disposal of medications from residential consumers - Issues, barriers, and opportunities." Washington State Department of Ecology, Washington State, November, 2007, 35 pp; http://www.govlink.org/hazwaste/publications/Unwanted%20Medications%20Primer12-14-07.pdf.

Johnson HL and Maibach HI. "Drug excretion in human eccrine sweat." *Journal of Investigative Dermatology* **1971**, *56*(3):182-188.

Johnson K. "Drug labs poisoning forests." USA Today, 2001, 30 January.

Johnson MB and Mehrvar M. "Aqueous Metronidazole Degradation by UV/H_2O_2 Process in Single-and Multi-Lamp Tubular Photoreactors: Kinetics and Reactor Design." *Industrial and Engineering Chemistry Research* **2008**, *47*(17):6525-6537; doi:10.1021/ie071637v.

Johnson N, Revenga C, and Echeverria J. "Managing water for people and nature." *Science* **2001**, *292*(5519):1071-1072; doi:10.1126/science.1058821.

Johnson R, Nusbaum BP, Horwitz SN, and Frost P. "Transfer of topically applied tetracycline in various vehicles." *Archives of Dermatology* **1983**, *119*(8):660-663; doi:10.1001/archderm.119.8.660.

Johnston JJ, Savarie PJ, Primus TM, Eisemann JC, Hurley JC, and Kohler KJ. "Risk assessment of an acetaminophen baiting program for chemical control of brown tree snakes on Guam: Evaluation of baits, snake residues, and potential primary and secondary hazards." *Environmental Science & Technology* **2002**, *36*(17):3827-3833; doi:10.1021/es015873n.

Johnstone RW, Ruefli AA, and Smyth MJ. "Multiple physiological functions for multidrug transporter P-glycoprotein?" *Trends in Biochemical Sciences* **2000**, *25*(1):1-6; doi:10.1016/S0968-0004(99)01493-0.

Jolibois B and Guerbet M. "Evaluation of industrial, hospital and domestic wastewater genotoxicity with the Salmonella fluctuation test and the SOS chromotest." *Mutation Research/Genetic Toxicology and Environmental Mutagenesis* **2005**, *565*(2):151-162; doi:10.1016/j.mrgentox.2004.10.006.

Jolibois B and Guerbet M. "Hospital wastewater genotoxicity." *Annals of Occupational Hygiene* **2006**, *50*(2):189-196; doi:10.1093/annhyg/mei051.

Jolibois B and Guerbet M. "Simplified protocol for evaluating the genotoxic risk of hospital wastewater." *Environmental Toxicology* **2006**, *21*(2):141-146; doi:10.1002/tox.20166.

Jolibois B, Guerbet M, and Vassal S. "Glutaraldehyde in hospital wastewater." *Archives of Environmental Contamination and Toxicology* **2002**, *42*(2):137-144; doi:10.1007/s00244-001-0011-8.

Jolibois B, Guerbet M, and Vassal S. "Detection of hospital wastewater genotoxicity with the SOS chromotest and Ames fluctuation test." *Chemosphere* **2003**, *51*(6):539-543; doi:10.1016/S0045-6535(02)00867-6.

Jolly C, Katsiadaki I, Morris S, Le Belle N, Dufour S, Mayer I*, et al.* "Detection of the anti-androgenic effect of endocrine disrupting environmental contaminants using in vivo and in vitro assays in the three-spined stickleback." *Aquatic Toxicology* **2009**, *92*(4):228-239; doi:10.1016/j.aquatox.2009.02.006.

Jonas W, Lin Y, and Tortella F. "Neuroprotection from glutamate toxicity with ultra-low dose glutamate." *Neuropharmacology and Neurotoxicology* **2001**, *12*(2):335-339.

Jonas WB. "The future of hormesis: what is the clinical relevance to hormesis?" *Critical Reviews in Toxicology* **2001**, *31*(4-5):655-

658.

Jonas WB. "A critique of "the scientific foundations of hormesis"." *Critical Reviews in Toxicology* **2001**, *31*(4-5):625-629.

Jones AD, Bruland GL, Agrawal SG, and Vasudevan D. "Factors influencing the sorption of oxytetracycline to soils." *Environmental Toxicology and Chemistry* **2005**, *24*(4):761-770; doi:10.1897/04-037R.1.

Jones JG, Gardener S, Simon BM, and Pickup RW. "Antibiotic resistant bacteria in Windermere and two remote upland tarns in the English Lake District." *Journal of Applied Microbiology* **1986**, *60*(5):443-453; doi:10.1111/j.1365-2672.1986.tb05090.x.

Jones KC and de Voogt P. "Persistent organic pollutants (POPs): state of the science." *Environmental Pollution* **1999**, *100*(1-3):209-221; doi:10.1016/S0269-7491(99)00098-6.

Jones KG. "Applications of Radiation Chemistry to Understand the Fate and Transport of Emerging Pollutants of Concern in Coastal Waters." Doctoral Dissertation, North Carolina State University, Raleigh, North Carolina, 2007. 137 pp; http://www.lib.ncsu.edu/theses/available/etd-03272007-124844/.

Jones OA, Lester JN, and Voulvoulis N. "Pharmaceuticals: a threat to drinking water?" *Trends in Biotechnology* **2005**, *23*(4):163-167; doi:10.1016/j.tibtech.2005.02.001.

Jones OA, Voulvoulis N, and Lester JN. "Potential ecological and human health risks associated with the presence of pharmaceutically active compounds in the aquatic environment." *Critical Reviews in Toxicology* **2004**, *34*(4):335-350.

Jones OAH, Green PG, Voulvoulis N, and Lester JN. "Questioning the Excessive Use of Advanced Treatment to Remove Organic Micropollutants from Wastewater." *Environmental Science & Technology* **2007**, *41*(14):5085-5089.

Jones OAH, Voulvoulis N, and Lester JN. "Human pharmaceuticals in the aquatic environment - A review." *Environmental Technology* **2001**, *22*(12):1383-1394.

Jones OAH, Voulvoulis N, and Lester JN. "Aquatic environmental assessment of the top 25 English prescription pharmaceuticals." *Water Research* **2002**, *36*(20):5013-5022; doi:10.1016/S0043-1354(02)00227-0.

Jones OAH, Voulvoulis N, and Lester JN. "Analytical method development for the simultaneous determination of five human pharmaceuticals in water and wastewater samples by gas chromatography-mass spectrometry." *Chromatographia* **2003**, *58*(7-8):471-477; doi:10.1365/s10337-003-0087-6.

Jones OAH, Voulvoulis N, and Lester JN. "Potential impact of pharmaceuticals on environmental health." *Bulletin of The World Health Organization* **2003**, *81*(10):768-769; doi:10.1590/S0042-96862003001000015.

Jones OAH, Voulvoulis N, and Lester JN. "Human pharmaceuticals in wastewater treatment processes." *Critical Reviews in Environmental Science and Technology* **2005**, *35*(4):401-427; doi:10.1080/10643380590956966.

Jones OAH, Voulvoulis N, and Lester JN. "Partitioning behavior of five pharmaceutical compounds to activated sludge and river sediment." *Archives of Environmental Contamination and Toxicology* **2006**, *50*(3):297-305; doi:10.1007/s00244-005-1095-3.

Jones OAH, Voulvoulis N, and Lester JN. "The occurrence and removal of selected pharmaceutical compounds in a sewage treatment works utilising activated sludge treatment." *Environmental Pollution* **2007**, *145*(3):738-744; doi:10.1016/j.envpol.2005.08.077.

Jones OAH, Voulvoulis N, and Lester JN. "Fate and occurrence of pharmaceuticals in the water cycle – Ecotoxicity of pharmaceuticals." *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle* **2007**, *Volume 50*:387-424; doi:10.1016/S0166-526X(07)50012-7.

Jones OAH, Voulvoulis N, and Lester JN. "Ecotoxicity of pharmaceuticals." in *Comprehensive Analytical Chemistry*, Barcelo D, Ed., Elsevier; 2007, Series Vol 48, Chapter 3.3, pp 387-424; http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B7P66-4P6SMJY-K&_user=10&_coverDate=12%2F31%2F2007&_alid=1056242068&_rdoc=13&_fmt=high&_orig=search&_cdi=24622&_sort=r&_docanchor=&view=c&_ct=15&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=ce41a0fe0aa4e8675acd846b56648320.

Jones RN, Pfaller MA, Marshall SA, Hollis RJ, and Wilke WW. "Antimicrobial activity of 12 broad-spectrum agents tested against 270 nosocomial blood stream infection isolates caused by non-Enteric Gram-negative bacilli: Occurrence of resistance, molecular epidemiology, and screening for metallo-enzymes." *Diagnostic Microbiology and Infectious Disease* **1997**, *29*(3):187-192;

doi:10.1016/S0732-8893(97)81808-1.

Jones S. "Assessing the effectiveness of one-stop dispensing." *Hospital Pharmacist* **2002**, *9*:237-239.

Jones-Lepp T, Sanchez CA, and Wilson D. "Tracing the sources of macrolide antibiotics and illicit drugs into the Colorado River Basin." 42nd American Chemical Society Western Regional Meeting, American Chemical Society, Las Vegas, NV, 23-27 September 2008.

Jones-Lepp TL. "Chemical markers of human waste contamination: analysis of urobilin and pharmaceuticals in source waters." *Journal of Environmental Monitoring* **2006**, *8*(4):472–478; doi:10.1039/b512858g.

Jones-Lepp TL, Alvarez DA, Englert B, and Batt AL. "Pharmaceuticals and Hormones in the Environment." in *Encyclopedia of Analytical Chemistry*, Meyers RA, Ed., John Wiley and Sons; 2009, pp 59; doi:10.1002/9780470027318.a9059; http://www.mrw.interscience.wiley.com/emrw/9780470027318/eac/article/a9059/current/abstract.

Jones-Lepp TL, Alvarez DA, Petty JD, and Huckins JN. "Polar Organic Chemical Integrative Sampling and Liquid Chromatography–Electrospray/Ion-Trap Mass Spectrometry for Assessing Selected Prescription and Illicit Drugs in Treated Sewage Effluents." *Archives of Environmental Contamination and Toxicology* **2004**, *47*(4):427-439; doi:10.1007/s00244-004-3146-6.

Jones-Lepp TL, Alvarez DA, Petty JD, Osemwengie LI, and Daughton CG. "Analytical Chemistry for Mapping Trends of Pharmaceutical and Personal Care Product Pollution from Personal Use: Some Current Research and Future Needs." in 10th Annual Symposium on Handling of Environmental and Biological Samples, Wiesbaden, Germany, 2001, 10 September.

Jones-Lepp TL, Gerlach CL, and Cooter EJ. "The power of analytical methods for measuring suspected endocrine disrupting compounds: a pilot field study." *Trends in Analytical Chemistry* **2000**, *19*(5):286-291; doi:10.1016/S0165-9936(99)00218-6.

Jones-Lepp TL and Stevens R. "Pharmaceuticals and personal care products in biosolids/sewage sludge: the interface between analytical chemistry and regulation." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1173-1183; doi:10.1007/s00216-006-0942-z.

Jonkers N, Kohler H-PE, Dammshäuser A, and Giger W. "Mass flows of endocrine disruptors in the Glatt River during varying weather conditions." *Environmental Pollution* **2009**, *157*(3):714-723; doi:10.1016/j.envpol.2008.11.029.

Jönsson AK, Spigset O, Tjäderborn M, Druid H, and Hägg S. "Fatal drug poisonings in a Swedish general population." *BMC Clinical Pharmacology* **2009**, *9*(1):7; doi:10.1186/1472-6904-9-7.

Jordan A and Frank H. "Trifluoroacetate in the environment. Evidence for sources other than HFC/HCFCs." *Environmental Science & Technology* **1999**, *33*(4):522-527; doi:10.1021/es980674y.

Jørgensen SE and Halling-Sørensen B. "Drugs in the environment." *Chemosphere* **2000**, *40*(7):691-699; doi:10.1016/S0045-6535(99)00438-5.

Jørgensen SE, Lützhøft HC, and Halling-Sørensen B. "Development of a model for environmental risk assessment of growth promoters." *Ecological Modelling* **1998**, *107*(1):63-72; doi:10.1016/S0304-3800(97)00211-1.

Jos A, Repetto G, Rios JC, Hazen MJ, Molero ML, del Peso A*, et al.* "Ecotoxicological evaluation of carbamazepine using six different model systems with eighteen endpoints." *Toxicology In Vitro* **2003**, *17*(5-6):525-532; doi:10.1016/S0887-2333(03)00119-X.

Josephson J. "The Microbial "Resistome"." *Environmental Science & Technology* **2006**, *40*(21):6531-6534; doi:10.1021/es063006i.

Joss A. "Erratum to "Removal of pharmaceuticals and fragrances in biological wastewater treatment" [Water Res. 39, 3139-3152]." *Water Research* **2005**, *39*(18):4585; doi:10.1016/j.watres.2005.09.011.

Joss A, Andersen H, Ternes T, Richle PR, and Siegrist H. "Removal of estrogens in municipal wastewater treatment under aerobic and anaerobic conditions: Consequences for plant optimization." *Environmental Science & Technology* **2004**, *38*(11):3047-3055; doi:10.1021/es0351488.

Joss A, Carballa M, Kreuzinger N, Aiegrist H, and Zabczynski S. "Wastewater treatment." in *Human pharmaceuticals, hormones and fragrances: The challenge of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, UK, 2007, Chapter 6, pp 243-292; http://books.google.com/books?id=X9Sb4mVGF-oC&dq=Human+pharmaceuticals,+hormones+and+fragrances:++The+challenge+of+micropollutants+in+urban+water+management&printsec=frontcover&source=bn&hl=en&ei=DzGcSuP5NqWEmQeYscjABA&sa=X&oi=book_result&ct=result&resnum=4#v=one

page&q=&f=false.

Joss A, Carballa M, Kreuzinger N, Siegrist H, and Zabczynski S. "Wastewater treatment." in *Human Pharmaceuticals, Hormones and Fragrances: The challenge of micropollutants in urban water management*, Ternes T and Joss A, Eds., IWA Publishing; London, UK, 2006, 6, pp 243-292; http://www.iwapublishing.com/template.cfm?name=isbn1843390930.

Joss A, Keller E, Alder AC, Göbel A, McArdell CS, Ternes T*, et al.* "Removal of pharmaceuticals and fragrances in biological wastewater treatment." *Water Research* **2005**, *39*(14):3139-3152; doi:10.1016/j.watres.2005.05.031.

Joss A, Klaschka U, Knacker T, Liebig M, Lienert J, Ternes TA*, et al.* "Source control, source separation." in *Human pharmaceuticals, hormones and fragrances: The challenge of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, UK, 2007, Chapter 9, pp 353-384; http://books.google.com/books?id=X9Sb4mVGF-oC&dq=Human+pharmaceuticals,+hormones+and+fragrances:++The+challenge+of+micropollutants+in+urban+water+management&printsec=frontcover&source=bn&hl=en&ei=DzGcSuP5NqWEmQeYscjABA&sa=X&oi=book_result&ct=result&resnum=4#v=onepage&q=&f=false.

Joss A, Siegrist H, and Ternes T. "Indirect potable water reuse is taking place. Micropollutants require integrating water management at the source, of wastewater and drinking water." in Priority compounds and water reuse, Workshop 2, 6th IWA Conference on Wastewater Reclamation and Reuse for Sustainability (WRRS 2007), Antwerp, Belgium, 9-12 October, 2007, 8 pp; http://www.wrrs2007.org/content/user/File/Workshop%202%20PRIORITY%20POLLUTANTS%20extended%20Abstract.pdf.

Joss A, Siegrist H, and Ternes TA. "Are we about to upgrade wastewater treatment for removing organic micropollutants?" *Water Science and Technology* **2008**, *57*(2):251-255; doi:10.2166/wst.2008.825.

Joss A, Zabczynski S, Gobel A, Hoffmann B, Loffler D, McArdell CS*, et al.* "Biological degradation of pharmaceuticals in municipal wastewater treatment: Proposing a classification scheme." *Water Research* **2006**, *40*(8):1686-1696; doi:10.1016/j.watres.2006.02.014.

Joukhadar C, Derendorf H, and Muller M. "Microdialysis - A novel tool for clinical studies of anti-infective agents." *European Journal of Clinical Pharmacology* **2001**, *57*(211-219).

Jover E, Matamoros V, and Bayona JM. "Characterization of benzothiazoles, benzotriazoles and benzosulfonamides in aqueous matrixes by solid-phase extraction followed by comprehensive two-dimensional gas chromatography coupled to time-of-flight mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(18):4013-4019; doi:10.1016/j.chroma.2009.02.052.

Joyeux M. "Drug residues and health risks from water [Résidus médicamenteux et risques sanitaires d'origine hydrique]." *Environment, Risques & Sante* **2006**, *5*(4):301-306.

Juan-García A, Font G, and Picó Y. "Simultaneous determination of different classes of antibiotics in fish and livestock by CE-MS." *Electrophoresis* **2007**, *28*(22):4180-4191; doi:10.1002/elps.200700383.

Juhna T, Birzniece D, Larsson S, Zulenkovs D, Sharipo A, Azevedo NF*, et al.* "Detection of Escherichia coli in Biofilms from Pipe Samples and Coupons in Drinking Water Distribution Networks." *Applied and Environmental Microbiology* **2007**, *73*(22):7456-7464; doi:10.1128/aem.00845-07.

Jukosky J, Watzin M, and Leiter J. "Elevated Concentrations of Ethinylestradiol, 17β-Estradiol, and Medroxyprogesterone have Little Effect on Reproduction and Survival of Ceriodaphnia dubia." *Bulletin of Environmental Contamination and Toxicology* **2008**, *81*(3):230-235; doi:10.1007/s00128-008-9462-1.

Jukosky JA, Watzin MC, and Leiter JC. "The effects of environmentally relevant mixtures of estrogens on Japanese medaka (Oryzias latipes) reproduction." *Aquatic Toxicology* **2008**, *86*(2):323-331; doi:10.1016/j.aquatox.2007.11.012.

Jun LJ, Jeong JB, Huh M-D, Chung J-K, Choi D-L, Lee C-H*, et al.* "Detection of tetracycline-resistance determinants by multiplex polymerase chain reaction in Edwardsiella tarda isolated from fish farms in Korea." *Aquaculture* **2004**, *240*(1-4):89-100; doi:10.1016/j.aquaculture.2004.07.025.

Jung CM, Heinze TM, Deck J, Strakosha R, and Sutherland JB. "Transformation of N-Phenylpiperazine by Mixed Cultures from a Municipal Wastewater Treatment Plant." *Applied and Environmental Microbiology* **2008**, *74*(19):6147-6150; doi:10.1128/aem.00516-08.

Jung J, Kim Y, Kim J, Jeong D-H, and Choi K. "Environmental levels of ultraviolet light potentiate the toxicity of sulfonamide antibiotics in Daphnia magna." *Ecotoxicology* **2008**, *17*(1):37-45.

Juni RL and McElveen JC, Jr. "Environmental law applications of hormesis concepts: risk assessment and cost-benefit implications." *Journal of Applied Toxicology* **2000**, *20*(2):149-155; doi:10.1002/(SICI)1099-1263(200003/04)20:2<149::AID-JAT647>3.0.CO;2-7.

Junker LM and Hay AG. "Effects of triclosan incorporation into ABS plastic on biofilm communities." *Journal of Antimicrobial Chemotherapy* **2004**, *53*(6):989-996.

Junker T, Alexy R, Knacker T, and Kümmerer K. "Biodegradability of ^{14}C-Labeled Antibiotics in a Modified Laboratory Scale Sewage Treatment Plant at Environmentally Relevant Concentrations." *Environmental Science & Technology* **2006**, *40*(1):318-324.

Jurgens MD, Holthaus KIE, Johnson AC, Smith JJL, Hetheridge M, and Williams RJ. "The potential for estradiol and ethinylestradiol degradation in English rivers." *Environmental Toxicology and Chemistry* **2002**, *21*(3):480-488; doi:10.1897/1551-5028(2002)021<0480:TPFEAE>2.0.CO;2.

Jurgens MD, Johnson AC, and Williams RJ. "Fate and behavior of steroid oestrogens in rivers: a scoping study." Environment Agency, R&D Technical Report P161, London, United Kingdom, 1999.

Juszkiewicz T. "Residues of chemical compounds in animal food products under conditions of intensification of agriculture and chemization of environment." *Zeszyty problemowe postepow nauk rolnichzych [In Polish]* **1981**, *233*:97-125.

Juvancz Z, Barna S, Gyarmathy D, and Konorót F. "Study of Endocrine Disrupting Chemicals in Environment." *Acta Polytechnica Hungarica* **2008**, *5*(3):49-58.

Jux U, Baginski RM, Arnold HG, Kronke M, and Seng PN. "Detection of pharmaceutical contaminations of river, pond, and tap water from Cologne (Germany) and surroundings." *International Journal of Hygiene and Environmental Health* **2002**, *205*(5):393-398; doi:10.1078/1438-4639-00166.

Kaatz GW, Moudgal VV, Seo SM, Hansen JB, and Kristiansen JE. "Phenylpiperidine selective serotonin reuptake inhibitors interfere with multidrug efflux pump activity in Staphylococcus aureus." *International Journal of Antimicrobial Agents* **2003**, *22*(3):254-261; doi:10.1016/S0924-8579(03)00220-6.

Kabdaşh I, Keleş A, Ölmez-Hanci T, Tünay O, and Arslan-Alaton I. "Treatment of Phthalic Acid Esters by Electrocoagulation with Stainless Steel Electrodes Using Dimethyl Phthalate as a Model Compound." *Journal of Hazardous Materials* **2009**, *171*(1-3):932-940; doi:10.1016/j.jhazmat.2009.06.093.

Kadowaki T, Wheelock CE, Adachi T, Kudo T, Okamoto S, Tanaka N*, et al.* "Identification of Endocrine Disruptor Biodegradation by Integration of Structure–activity Relationship with Pathway Analysis." *Environmental Science & Technology* **2007**, *41*(23):7997-8003.

Käfferlein HU and Angerer J. "Trends in the musk xylene concentrations in plasma samples from the general population from 1992/1993 to 1998 and the relevance of dermal uptake." *International Archives of Occupational and Environmental Health* **2001**, *74*(7):470-476; doi:10.1007/s004200100257.

Kafferlein HU, Goen T, and Angerer J. "Musk xylene: analysis, occurrence, kinetics, and toxicology." *Critical Reviews in Toxicology* **1998**, *28*(5):431-476.

Kagle J, Porter AW, Murdoch RW, Rivera-Cancel G, Hay AG, Allen I. Laskin SS*, et al.* "Chapter 3 Biodegradation of Pharmaceutical and Personal Care Products." in *Advances in Applied Microbiology*, Academic Press; 2009, Chapter 3, pp 65-108; doi:10.1016/S0065-2164(08)01003-4; http://www.sciencedirect.com/science/article/B7CSY-4VP5V40-5/2/2bb743dddbe027c2a2c51a94e5258a75.

Kah M and Brown CD. "Log D: Lipophilicity for ionisable compounds." *Chemosphere* **2008**, *72*(10):1401-1408; doi:10.1016/j.chemosphere.2008.04.074.

Kah O and Chambolle P. "Serotonin in the brain of the goldfish, Carassius auratus." *Cell and Tissue Research* **1983**, *234*(2):319-333; doi:10.1007/BF00213771.

Kahle M, Buerge IJ, Hauser A, Muller MD, and Poiger T. "Azole Fungicides: Occurrence and Fate in Wastewater and Surface Waters." *Environmental Science & Technology* **2008**, *42*(19):7193-7200; doi:10.1021/es8009309.

Kahle M, Buerge IJ, Müller MD, and Poiger T. "Hydrophilic Anthropogenic Markers for Quantification of Wastewater Contamination in Ground- and Surface Waters." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2528-2636; doi:10.1897/08-606.1.

Kahle M and Stamm C. "Sorption of the veterinary antimicrobial sulfathiazole to organic materials of different origin." *Environmental*

Science & Technology **2007**, *41*(1):132-138; doi:10.1021/es061198b.

Kahle M and Stamm C. "Time and pH-dependent sorption of the veterinary antimicrobial sulfathiazole to clay minerals and ferrihydrite." *Chemosphere* **2007**, *68*(7):1224-1231; doi:10.1016/j.chemosphere.2007.01.061.

Kaiser AE, Gottwald AM, Wiersch CS, Maier WA, and Seitz HM. "Spermidine metabolism in parasitic protozoa - a comparison to the situation in prokaryotes, viruses, plants and fungi." *Folia Parasitologica* **2003**, *50*(1):3-18.

Kaiser B, Eagan PD, and Shaner H. "Solutions to health care waste: Life-cycle thinking and "green" purchasing." *Environmental Health Perspectives* **2001**, *109*(3):205-207.

Kaiser J. "Endocrine disrupters: Panel Cautiously Confirms Low-Dose Effects." *Science* **2000**, *290*(5492):695-697; doi:10.1126/science.290.5492.695.

Kaiser J. "Panel Cautiously Confirms Low-Dose Effects." *Science* **2000**, *290*(5492):695-697; doi:10.1126/science.290.5492.695.

Kaiser J. "Sipping From a Poisoned Chalice." *Science* **2003**, *302*(5644):376-379; doi:10.1126/science.302.5644.376.

Kaiser KL. "Correlations of Vibrio fischeri bacteria test data with bioassay data for other organisms." *Environmental Health Perspectives* **1998**, *106*(Suppl 2):583-591.

Kaj L, Schlabach M, Andersson J, Cousins AP, Schmidbauer N, and Brorström-Lundén E. "Siloxanes in the Nordic Environment." 2005, 93 pp; http://www.ust.is/ness/docs/Siloxane-publication2005.pdf.

Kajitvichyanukul P and Suntronvipart N. "Evaluation of biodegradability and oxidation degree of hospital wastewater using photo-Fenton process as the pretreatment method." *Journal of Hazardous Materials* **2006**, *138*(2):384-391; doi:10.1016/j.jhazmat.2006.05.064.

Kaklamanos G, Theodoridis G, and Dabalis T. "Determination of anabolic steroids in bovine urine by liquid chromatography-tandem mass spectrometry." *Journal of Chromatography B* **2009**, *877*(23):2330-2336; doi:10.1016/j.jchromb.2009.03.033.

Kalavrouziotis IK, Koukoulakis PH, Sakellariou-Makrantonaki M, and Papanikolaou C. "Effects of treated municipal wastewater on the essential nutrient interactions in the plant of Brassica oleracea var. Italica." *Desalination* **2009**, *242*(1-3):297-312; doi:10.1016/j.desal.2008.05.009.

Kalbfus W and Kopf W. "Erste Ansätze zur ökotoxikologischen Bewertung von Pharmaka in Oberflächengewässern (First attempts for the ecotoxicological assessment of drugs in surface waters)(Ger.)." *Fachtagung Bayerisches Landesamt für Wasserwirtschaft* **1997**, *55*.

Kalbfus W and Kopf W. "First attempts for the ecotoxicological assessment of drugs in surface waters (Erste Ansätze zur ökotoxikologischen Bewertung von Pharmaka in Oberflächengewässern)." in Proceedings of the 51st Meeting of the Bavarian Ministry of Water Economy, 51st Fachtagung Bayerisches Landesamt für Wasserwirtschaft, Munich, Germany, 1997.

Kaleta A, Ferdig M, and Buchberger WS. "Semiquantitative determination of residues of amphetamine in sewage sludge samples." *Journal of Separation Science* **2006**, *29*(11):1662-1666; doi:10.1002/jssc.200500465.

Kallaos J, Wheeler K, Wong C, and Zahller M. "Pharmaceuticals in Wastewater Streams: Disposal Practices and Policy Options in Santa Barbara." Masters Dissertation, Donald Bren School of Environmental Science & Management, Santa Barbara, CA, 2007. 129 pp; http://www.bren.ucsb.edu/research/documents/PharmaceuticalsFinalReport.pdf.

Kallenborn R and Gatermann R. "Synthetic musks in ambient and indoor air." in *Synthetic Musk Fragrances in the Environment*, Rimkus GG, Ed., Springer-Verlag; Heidelberg, 2004, pp 85-104.

Kallenborn R, Gatermann R, Nygard T, Knutzen J, and Schlabach M. "Synthetic musks in Norwegian marine fish samples collected in the vicinity of densely populated areas." *Fresenius Environmental Bulletin* **2001**, *10*(11):832-842.

Kallenborn R, Gatermann R, Planting S, Rimkus GG, Lund M, Schlabach M*, et al.* "Gas chromatographic determination of synthetic musk compounds in Norwegian air samples." *Journal of Chromatography A* **1999**, *846*(1-2):295-306; doi:10.1016/S0021-9673(99)00259-9.

Kallenborn R, Gatermann R, and Rimkus GG. "Synthetic musks in environmental samples: indicator compounds with relevant properties for environmental monitoring." *Journal of Environmental Monitoring* **1999**, *1*(4):70N-74N.

Kallenborn R, Moe M, Vasskog T, Lindberg R, Tysklind M, and Fick J. "Pharmaceutical Residues in Northern European Environments: Consequences and Perspectives." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 5, pp 61-74; doi:10.1007/978-3-540-74664-5_5; http://www.springerlink.com/content/u581n471g0370501/?p=4e15fd3faa1a452fb14dba831099b558&pi=4.

Kallivretaki E, Eggen R, Neuhauss S, Alberti M, Kausch U, and Segner H. "Aromatase in zebrafish: A potential target for endocrine disrupting chemicals." *Marine Environmental Research* **2006**, *62*(Supplement 1):S187-S190; doi:10.1016/j.marenvres.2006.04.003.

Kalsch W. "Biodegradation of the iodinated X-ray contrast media diatrizoate and iopromide." *Science of the Total Environment* **1999**, *225*(1-2):143-153; doi:10.1016/S0048-9697(98)00340-4.

Kalter H. "Teratology in the 20th century: Environmental causes of congenital malformations in humans and how they were established." *Neurotoxicology and Teratology* **2003**, *25*(2):131-282; doi:10.1016/S0892-0362(03)00010-2.

Kameda T, Goto T, Toriba A, Tang N, and Hayakawa K. "Determination of airborne particle-associated benz[a]anthracene-7,12-quinone using high-performance liquid chromatography with in-line reduction and fluorescence detection." *Journal of Chromatography A* **2009**, *1216*(39):6758-6761; doi:10.1016/j.chroma.2009.08.009.

Kamiya T, Yamauchi T, Hirotsuji J, and Fujita M. "Ozone-based decomposition of main endocrine disruption chemicals in sewage effluent." *Ozone: Science & Engineering* **2005**, *27*(5):389-395; doi:10.1080/01919510500250945.

Kampa E. "Proceedings of the expert workshop on the design of instruments to limit pollution from PPs." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 44 pp.

Kampa E and Vidaurre R. "Identification of options for the design of future instruments to limit pollution from PPs into water." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 37 pp.

Kampa E, Vidaurre R, and Laaser C. "State-of-art review of policy instruments to limit the discharge of pharmaceutical products into European waters." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 46 pp; http://www.knappe-eu.org/fichiers/54-D3.1%20State%20of%20Art%20Policy%20instrument.pdf.

Kan CA and Meijer GAL. "The risk of contamination of food with toxic substances present in animal feed." *Animal Feed Science and Technology* **2007**, *133*(1-2):84-108; doi:10.1016/j.anifeedsci.2006.08.005.

Kanda R and Churchley J. "Removal of endocrine disrupting compounds during conventional wastewater treatment." *Environmental Technology* **2008**, *29*(3):315-323; doi:10.1080/09593330802099874.

Kanda R, Griffin P, James HA, and Fothergill J. "Pharmaceutical and personal care products in sewage treatment works." *Journal of Environmental Monitoring* **2003**, *5*(5):823-830; doi:10.1039/b306355k.

Kane M and Erickson JD. "Urban Metabolism and Payment for Ecosystem Services: History and Policy Analysis of the New York City Water Supply." in *Advances in the Economics of Environmental Resources*, Emerald Group Publishing Limited; 2007, pp 307-328; doi:10.1016/S1569-3740(07)07013-7; http://www.emeraldinsight.com/Insight/viewContentItem.do;jsessionid=1D3CE98DA2E5C94B7121A5F62B426B79?contentType=Book&contentId=1757396.

Kang IJ, Yokota H, Oshima Y, Tsuruda Y, Yamaguchi T, Maeda M*, et al.* "Effect of 17β-estradiol on the Reproduction of Japanese Medaka (Oryzias latipes)." *Chemosphere* **2002**, *47*(1):71-80.

Kang S-I, Kang S-Y, and Hur H-G. "Identification of fungal metabolites of anticonvulsant drug carbamazepine." *Applied Microbiology and Biotechnology* **2008**, *79*(4):663-669; doi:10.1007/s00253-008-1459-5.

Kaniou S, Pitarakis K, Barlagianni I, and Poulios I. "Photocatalytic oxidation of sulfamethazine." *Chemosphere* **2005**, *60*(3):372-380; doi:10.1016/j.chemosphere.2004.11.069.

Kannan K, Reiner JL, Yun SH, Perrotta EE, Tao L, Johnson-Restrepo B*, et al.* "Polycyclic musk compounds in higher trophic level aquatic organisms and humans from the United States." *Chemosphere* **2005**, *61*(5):693-700; doi:10.1016/j.chemosphere.2005.03.041.

Kantiani L, Farré M, Asperger D, Rubio F, González S, de Alda M-JL*, et al.* "Triclosan and methyl-triclosan monitoring study in the northeast of Spain using a magnetic particle enzyme immunoassay and confirmatory analysis by gas-chromatography-mass spectrometry." *Journal of Hydrology* **2008**, *361*(1-2):1-9; doi:10.1016/j.jhydrol.2008.07.016.

Kantiani L, Farré M, and Barceló D. "Analytical methodologies for the detection of β-lactam antibiotics in milk and feed samples." *TRAC Trends in Analytical Chemistry* **2009**, *28*(6):729-744; doi:10.1016/j.trac.2009.04.005.

Kaplan LA, Newbold JD, Van Horn DJ, Dow CL, Aufdenkampe AK, and Jackson JK. "Organic matter transport in New York City drinking-water-supply watersheds." *Journal of the North American Benthological Society* **2006**, *25*(4):912-927; doi:10.1899/0887-3593(2006)025[0912:OMTINY]2.0.CO;2.

Karch AM and Karch FE. "When It's Time to Clean Out the Medicine Cabinet: Tell your patients that leftover drugs are rarely safe." *American Journal of Nursing* **2002**, *102*(2):23.

Karcı A and Balcıoğlu IA. "Investigation of the tetracycline, sulfonamide, and fluoroquinolone antimicrobial compounds in animal manure and agricultural soils in Turkey." *Science of the Total Environment* **2009**, *407*(16):4652-4664; doi:10.1016/j.scitotenv.2009.04.047.

Karim MM, Jeon CW, Lee HS, Alam SM, Lee SH, Choi JH*, et al.* "Simultaneous determination of acetylsalicylic acid and caffeine in pharmaceutical formulation by first derivative synchronous fluorimetric method." *Journal of Fluorescence* **2006**, *16*(5):713-721; doi:10.1007/s10895-006-0115-7.

Karlsson I, Hillerström L, Stenfeldt A-L, Mårtensson J, and Börje A. "Photodegradation of Dibenzoylmethanes: Potential Cause of Photocontact Allergy to Sunscreens." *Chemical Research in Toxicology* **2009**, *In press*; doi:10.1021/tx900284e.

Karpouzas DG and Singh BK. "Microbial Degradation of Organophosphorus Xenobiotics: Metabolic Pathways and Molecular Basis." *Advances in Microbial Physiology* **2006**, *51*:119-225.

Karpova T. "Aqueous photocatalytic oxidation of steroid estrogens." Doctoral Dissertation, Lappeenranta University of Technology, Lappeenranta, Finland, 2007. 136 pp; https://oa.doria.fi/bitstream/handle/10024/29756/isbn9789522144621.pdf?sequence=1.

Karpova T, Preis S, and Kallas J. "Selective Photocatalytic Oxidation of Steroid Estrogens in the Presence of Copollutants in the Sanitary Fraction of Domestic Sewage." *International Journal of Photoenergy* **2007**, *2007*.

Karthikeyan KG and Meyer MT. "Occurrence of antibiotics in wastewater treatment facilities in Wisconsin, USA." *Science of the Total Environment* **2006**, *361*(1-3):196-207; doi:10.1016/j.scitotenv.2005.06.030.

Kashiwada S, Ishikawa H, Miyamoto N, Ohnishi Y, and Magara Y. "Fish test for endocrine-disruption and estimation of water quality of Japanese rivers." *Water Research* **2002**, *36*(8):2161-2166; doi:10.1016/S0043-1354(01)00406-7.

Kashiwada S, Kameshiro M, Tatsuta H, Sugaya Y, Kullman SW, Hinton DE*, et al.* "Estrogenic modulation of CYP3A38, CYP3A40, and CYP19 in mature male medaka (Oryzias latipes)." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2007**, *145*(3):370-378; doi:10.1016/j.cbpc.2007.01.009.

Kashiwada S, Tatsuta H, Kameshiro M, Sugaya Y, Sabo-Attwood T, Chandler GT*, et al.* "Stage-dependent differences in effects of carbaryl on population growth rate in Japanese medaka (oryzias latipes)." *Environmental Toxicology and Chemistry* **2008**, *27*(11):2397-2402; doi:10.1897/08-073.1.

Kasichayanula S, House JD, Wang T, and Gu X. "Simultaneous analysis of insect repellent DEET, sunscreen oxybenzone and five relevant metabolites by reversed-phase HPLC with UV detection: Application to an in vivo study in a piglet model." *Journal of Chromatography B: Biomedical Sciences and Applications* **2005**, *822*(1-2):271-277; doi:10.1016/j.jchromb.2005.06.015.

Kasichayanula S, House JD, Wang T, and Gu X. "Percutaneous characterization of the insect repellent DEET and the sunscreen oxybenzone from topical skin application." *Toxicology and Applied Pharmacology* **2007**, *223*(2):187-194; doi:10.1016/j.taap.2007.05.016.

Kasinos D, Bester K, and Kümmerer K, Eds., "Xenobiotics in the urban water cycle." Springer, 2009.

Kaslin J and Panula P. "Comparative anatomy of the histaminergic and other aminergic systems in zebrafish (Danio rerio)." *Journal of Comparative Neurology* **2001**, *440*(4):342-377; doi:10.1002/cne.1390.

Kasper SC, Mattiuz EL, Swanson SP, Chiu JA, Johnson JT, and Garner CO. "Determination of olanzapine in human breast milk by high-performance liquid chromatography with electrochemical detection." *Journal of Chromatography B: Biomedical Sciences and Applications* **1999**, *726*(1-2):203-209; doi:10.1016/S0378-4347(99)00017-1.

Kasprzyk-Hordern B. "Pharmacologically active compounds in the environment and their chirality." University of Huddersfield Research Festival, University of Huddersfield, 23 March - 2 April, 2009, http://eprints.hud.ac.uk/5182.

Kasprzyk-Hordern B, Dabrowska A, Vieno N, Kronberg L, and Nawrocki J. "Occurrence of Acidic Pharmaceuticals in the Warta River in Poland." *Chemia Analityczna* **2008**, *53*(2):289-303.

Kasprzyk-Hordern B, Dinsdale RM, and Guwy AJ. "Multi-residue method for the determination of basic/neutral pharmaceuticals and illicit drugs in surface water by solid-phase extraction and ultra performance liquid chromatography-positive electrospray ionisation tandem mass spectrometry." *Journal of Chromatography A* **2007**, *1161*(1-2):132-145; doi:10.1016/j.chroma.2007.05.074.

Kasprzyk-Hordern B, Dinsdale RM, and Guwy AJ. "The effect of signal suppression and mobile phase composition on the simultaneous analysis of multiple classes of acidic/neutral pharmaceuticals and personal care products in surface water by solid-phase extraction and ultra performance liquid chromatography-negative electrospray tandem mass spectrometry." *Talanta* **2008**, *74*(5):1299-1312; doi:10.1016/j.talanta.2007.08.037.

Kasprzyk-Hordern B, Dinsdale RM, and Guwy AJ. "Multiresidue methods for the analysis of pharmaceuticals, personal care products and illicit drugs in surface water and wastewater by solid-phase extraction and ultra performance liquid chromatography-electrospray tandem mass spectrometry." *Analytical and Bioanalytical Chemistry* **2008**, *391*(4):1293-1308; doi:10.1007/s00216-008-1854-x.

Kasprzyk-Hordern B, Dinsdale RM, and Guwy AJ. "The occurrence of pharmaceuticals, personal care products, endocrine disruptors and illicit drugs in surface water in South Wales, UK." *Water Research* **2008**, *42*(13):3498-3518; doi:10.1016/j.watres.2008.04.026.

Kasprzyk-Hordern B, Dinsdale RM, and Guwy AJ. "The removal of pharmaceuticals, personal care products, endocrine disruptors and illicit drugs during wastewater treatment and its impact on the quality of receiving waters." *Water Research* **2009**, *43*(2):363-380; doi:10.1016/j.watres.2008.10.047.

Kasprzyk-Hordern B, Dinsdale RM, and Guwy AJ. "Illicit drugs and pharmaceuticals in the environment – Forensic applications of environmental data, Part 2: Pharmaceuticals as chemical markers of faecal water contamination." *Environmental Pollution* **2009**, *157*(6):1778-1786; doi:10.1016/j.envpol.2009.02.019.

Kasprzyk-Hordern B, Dinsdale RM, and Guwy AJ. "Illicit drugs and pharmaceuticals in the environment – Forensic applications of environmental data, Part 1: Estimation of the usage of drugs in local communities." *Environmental Pollution* **2009**, *157*(6):1773-1777; doi:10.1016/j.envpol.2009.03.017.

Kasprzyk-Hordern B, Dinsdale RM, and Guwy AJ. "Erratum to "The removal of pharmaceuticals, personal care products, endocrine disruptors and illicit drugs during wastewater treatment and its impact on the quality of receiving waters" [Water Research 43 (2009) 2]." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.06.026.

Katsanis SH, Javitt G, and Hudson K. "A Case Study of Personalized Medicine." *Science* **2008**, *320*:53-54; doi:10.1126.science.1156604.

Katsiadaki I, Scott AP, Hurst MR, Matthiessen P, and Mayer I. "Detection of environmental androgens: a novel method based on enzyme-linked immunosorbent assay of spiggin, the stickleback (gasterosteus aculeatus) glue protein." *Environmental Toxicology and Chemistry* **2002**, *21*(9):1946-1954; doi:10.1897/1551-5028(2002)021.

Katsu Y, Lange A, Urushitani H, Ichikawa R, Paull GC, Cahill LL*, et al.* "Functional associations between two estrogen receptors, environmental estrogens, and sexual disruption in the roach (rutilus rutilus)." *Environmental Science & Technology* **2007**, *41*(9):3368-3374; doi:10.1021/es062797l.

Katz B and Griffin D. "Using chemical and microbiological indicators to track the impacts from the land application of treated municipal wastewater and other sources on groundwater quality in a karstic springs basin." *Environmental Geology* **2007**; doi:10.1007/s00254-007-1033-y.

Katz BG, Griffin DW, and Davis JH. "Groundwater quality impacts from the land application of treated municipal wastewater in a large karstic spring basin: Chemical and microbiological indicators." *Science of the Total Environment* **2009**, *407*(8):2872-2886; doi:10.1016/j.scitotenv.2009.01.022.

Kaufman M, Smolinske S, and Keswick D. "Assessing poisoning risks related to storage of household hazardous materials: using a focus group to improve a survey questionnaire." *Environmental Health* **2005**, *4*(1):16.

Kavlock RJ. "Overview of endocrine disruptor research activity in the United States." *Chemosphere* **1999**, *39*(8):1227-1236; doi:10.1016/S0045-6535(99)00190-3.

Kawaguchi M, Sakui N, Okanouchi N, Ito R, Saito K, Izumi S-i*, et al.* "Stir bar sorptive extraction with in situ derivatization and thermal desorption-gas chromatography-mass spectrometry for measurement of phenolic xenoestrogens in human urine samples." *Journal of Chromatography B: Biomedical Sciences and Applications* **2005**, *820*(1):49-57; doi:10.1016/j.jchromb.2005.03.019.

Kawanishi M, Takamura-Enya T, Ermawati R, Shimohara C, Sakamoto M, Matsukawa K*, et al.* "Detection of genistein as an estrogenic contaminant of river water in Osaka." *Environmental Science & Technology* **2004**, *38*(23):6424-6429; doi:10.1021/es049764v.

Kay J. "S.F.'s tap water best in tests, chemists say." SF Gate.com, 2008; http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2008/03/11/BAH9VHE23.DTL.

Kay P, Blackwell PA, and Boxall ABA. "Fate of veterinary antibiotics in a macroporous tile drained clay soil." *Environmental Toxicology and Chemistry* **2004**, *23*(5):1136-1144; doi:10.1897/03-374.

Kay P, Blackwell PA, and Boxall ABA. "A lysimeter experiment to investigate the leaching of veterinary antibiotics through a clay soil and comparison with field data." *Environmental Pollution* **2005**, *134*(2):333-341; doi:10.1016/j.envpol.2004.07.021.

Kay P, Blackwell PA, and Boxall ABA. "Column studies to investigate the fate of veterinary antibiotics in clay soils following slurry application to agricultural land." *Chemosphere* **2005**, *60*(4):497-507; doi:10.1016/j.chemosphere.2005.01.028.

Kay P, Blackwell PA, and Boxall ABA. "Transport of veterinary antibiotics in overland flow following the application of slurry to arable land." *Chemosphere* **2005**, *59*(7):951-959; doi:10.1016/j.chemosphere.2004.11.055.

Kaza M, Nalecz-Jawecki G, and Sawicki J. "The toxicity of selected pharmaceuticals to the aquatic plant Lemna minor." *Fresenius Environmental Bulletin* **2007**, *16*(5):524-531.

Kazuki K. "Function and directivity required for container and packaging for the medical supply. Container and packaging of the medical supply considering the disposal." *Pharmaceuticals Monthly* **2003**, *45*(11):2007-2012.

Ke JX, Zhuang WQ, Gin KYH, Reinhard M, Hoon LT, and Tay JH. "Characterization of estrogen-degrading bacteria isolated from an artificial sandy aquifer with ultrafiltered secondary effluent as the medium." *Applied Microbiology and Biotechnology* **2007**, *75*(5):1163-1171; doi:10.1007/s00253-007-0923-y.

Keenan HE, Sakultantimetha A, and Bangkedphol S. "Environmental fate and partition co-efficient of oestrogenic compounds in sewage treatment process." *Environmental Research* **2008**, *106*(3):313-318.

Keil A, Talaty N, Janfelt C, Noll RJ, Gao L, Ouyang Z*, et al.* "Ambient Mass Spectrometry with a Handheld Mass Spectrometer at High Pressure." *Analytical Chemistry* **2007**, *79*(20):7734-7739; doi:10.1021/ac071114x.

Keil F. "Invoking the Precautionary Principle: An Integrated Strategy to Reduce the Occurrence of Pharmaceuticals in the Water Cycle." in Environmental Risk Assessment of Human and Veterinary Medicines, Hotel Palace, Berlin, Germany, 26 September, 2007, 24 Slides pp; http://www.start-project.de/downloads/ERA_of_Med_Berlin_2007_Keil.pdf.

Keil F. "Pharmaceuticals for Human Use: Options of Action for Reducing the Contamination of Water Bodies: A Practical Guide." Frankfurt/Main, Germany, August, 2008, 51 pp; https://www.start-project.de/downloads/start_Practical_Guide.pdf.

Keil F, Bechmann G, Kümmerer K, and Schramm E. "Systemic risk governance for pharmaceuticals residues in drinking water." *GAIA - Ecological Perspectives for Science and Society* **2008**, *17*(4):355-361.

Keil Lab, "Environmental spices." *Aquatic Organic Geochemistry*, University of Washington, 2008, http://depts.washington.edu/aog/spices.

Keith LH, Jones-Lepp TL, and Needham LL, Eds., "Analysis of environmental endocrine disruptors." American Chemical Society, Washington, DC, 2000.

Kelch WJ and Lee JS. "Antibiotic Resistance Patterns of Gram-Negative Bacteria Isolated from Environmental Sources36:450–6." *Applied and Environmental Microbiology* **1978**, *36*:450-456.

Keller V. "Risk assessment of "down-the-drain" chemicals: Search for a suitable model." *Science of the Total Environment* **2006**, *360*(1-3):305-318; doi:10.1016/j.scitotenv.2005.08.042.

Keller VDJ, Rees HG, Fox KK, and Whelan MJ. "A new generic approach for estimating the concentrations of down-the-drain chemicals at catchment and national scale." *Environmental Pollution* **2007**, *148*(1):334-342; doi:10.1016/j.envpol.2006.10.048.

Kelly LA, Taylor MA, and Wooldridge MJA. "Estimating the-predicted environmental concentration of the residues of veterinary medicines: Should uncertainty and variability be ignored?" *Risk Analysis* **2003**, *23*(3):489-496; doi:10.1111/1539-6924.00329.

Kemper N. "Veterinary antibiotics in the aquatic and terrestrial environment." *Ecological Indicators* **2008**, *8*(1):1-13; doi:10.1016/j.ecolind.2007.06.002.

Kemper N, Färber H, Skutlarek D, and Krieter J. "Analysis of antibiotic residues in liquid manure and leachate of dairy farms in Northern Germany." *Agricultural Water Management* **2008**, *95*(11):1288-1292; doi:10.1016/j.agwat.2008.05.008.

Kendrick D. "Message 4: “Guard against accidental poisoning”." *Archives of Hellenic Medicine* **2008**, *25*(Suppl 1):27-33.

Kennedy DG, Cannavan A, and McCracken RJ. "Regulatory problems caused by contamination, a frequently overlooked cause of veterinary drug residues." *Journal of Chromatography A* **2000**, *882*(1-2):37-52; doi:10.1016/S0021-9673(00)00320-4.

Kennedy LA and Tsuchihashi R. "Is water reuse sustainable? Factors affecting its sustainability." *The Arabian Journal for Science and Engineering* **2005**, *30*(2C):3-15.

Kepner J. "Triclosan hazards...continued: trade group misleads on common antibacterial agent." *Pesticides and You* **2004**, *24*(4):9-11.

Kern D and Lorenz W. "Rückstände ausgewählter Humanarzneimittel in Oberflächenwasserkörpern im Einzugsgebiet Halle (Saale) [Residues of selected pharmaceuticals in the Saale River catchment]." *UWSF – Z Umweltchem Ökotox* **2008**, *20*(2):97-101; doi:10.1065/uwsf2008.03.243.

Kern S, Fenner K, Singer HP, Schwarzenbach RP, and Hollender J. "Identification of Transformation Products of Organic Contaminants in Natural Waters by Computer-Aided Prediction and High-Resolution Mass Spectrometry." *Environmental Science & Technology* **2009**, *43*(18):7039-7046; doi:10.1021/es901979h.

Kerr JL, Guo Z, Smith DW, Goss GG, and Belosevic M. "Use of goldfish to monitor wastewater and reuse water for xenobiotics." *Journal of Environmental Engineering and Science* **2008**, *7*(4):369-383; doi:10.1139/S08-011.

Kerry J, Coyne R, Gilroy D, Hiney M, and Smith P. "Spatial distribution of oxytetracycline and elevated frequencies of oxytetracycline resistance in sediments beneath a marine salmon farm following oxytetracycline therapy." *Aquaculture* **1996**, *145*(1-4):31-39; doi:10.1016/S0044-8486(96)01353-1.

Kester GB, Brobst RB, Carpenter A, Chaney RL, Rubin AB, Schoof RA*, et al.* "Risk characterization, assessment, and management of organic pollutants in beneficially used residual products." *Journal of Environmental Quality* **2005**, *34*:80-90.

Kevan PG. "Pollinators as bioindicators of the state of the environment: species, activity and diversity." *Agriculture, Ecosystems & Environment* **1999**, *74*(1-3):373-393.

Kevekordes S, Grahl K, Zaulig A, and Dunkelberg H. "Nitro musk compounds genotoxic activity." *Environmental Science and Pollution Research* **1996**, *3*(4):189-192; doi:10.1007/BF02986953.

Kevekordes S, Mersch-Sundermann V, Diez M, Bolten C, and Dunkelberg H. "Genotoxicity of polycyclic musk fragrances in the sister-chromatid exchange test." *Anticancer Research* **1998**, *18*(1A):449-452.

Kevekordes S, Mersch-Sundermann V, Diez M, and Dunkelberg H. "In vitro genotoxicity of polycyclic musk fragrances in the micronucleus test." *Mutation Research/Genetic Toxicology and Environmental Mutagenesis* **1997**, *395*(2-3):145-150; doi:10.1016/S1383-5718(97)00160-5.

Key PB, Hoguet J, Reed LA, Chung KW, and Fulton MH. "Effects of the statin antihyperlipidemic agent simvastatin on grass shrimp, Palaemonetes pugio." *Environmental Toxicology* **2008**, *23*(2):153-160.

Khalaf H, Salste L, Karlsson P, Ivarsson P, Jass J, and Olsson P-E. "In vitro analysis of inflammatory responses following environmental exposure to pharmaceuticals and inland waters." *Science of the Total Environment* **2009**, *407*(4):1452-1460; doi:10.1016/j.scitotenv.2008.10.016.

Khamsi R. "Sewage study spots cocaine users: Chemicals in Italian waste water suggest drug use is under-reported." *Naturenews* **2005**; doi:10.1038/news050801-12.

Khan B, Lee LS, and Sassman SA. "Degradation of Synthetic Androgens 17α- and 17β-Trenbolone and Trendione in Agricultural Soils." *Environmental Science & Technology* **2008**, *42*(10):3570-3574; doi:10.1021/es702690p.

Khan B, Qiao X, and Lee LS. "Stereoselective Sorption by Agricultural Soils and Liquid−Liquid Partitioning of Trenbolone (17α and 17β) and Trendione." *Environmental Science & Technology* **2009**, *In press*; doi:10.1021/es902112v.

Khan S and Ongerth JE. "Pharmaceutical Residuals in Water -- Compounds, Sources, & Controlling Characteristics." in AWWA WQTC58135 - 2002 Water Quality Technology Conference, American Water Works Association (AWWA), 1 November, 2002, 1581-1590 pp; http://www.techstreet.com/cgi-bin/detail?product_id=1040972.

Khan S and Ongerth JE. "Occurrence and Distribution of Pharmaceutical Residuals in Bay Sewage and Sewage Treatment." Bay Area Clean Water Agencies, 29 August, 2005, 75 pp; http://www.bacwa.org/LinkClick.aspx?fileticket=o%2F1vMUtfBeU%3D&tabid=101&mid=452.

Khan S and Roser D. "Risk Assessment and Health Effects Studies of Indirect Potable Reuse Schemes Final Report." The University of New South Wales, CWWT Report 2007/01, New South Wales, Australia, 8 January, 2007, 45 pp; http://www.waterworks.net.au/Images/Documents/RiskAssessmentHealthEffectsofIndirectPotableJanuary2007.pdf.

Khan S, Wintgens T, Sherman P, Zaricky J, and Schafer A. "A performance comparison of individual and combined treatment modules for water recycling." *Environmental Progress* **2005**, *24*:383-391; doi:10.1002/ep.10108.

Khan SJ. "Occurrence, behaviour and fate of pharmaceutical residues in sewage treatment." Doctoral Dissertation, University of New South Wales, New South Wales, Australia, 2002. 383 pp.

Khan SJ and Gerrard LE. "Stakeholder communications for successful water reuse operations." *Desalination* **2006**, *187*(1-3):191-202; doi:10.1016/j.desal.2005.04.079.

Khan SJ and Ongerth JE. "Estimation of pharmaceutical residues in primary and secondary sewage sludge based on quantities of use and fugacity modelling." *Water Science and Technology* **2002**, *46*(3):105-113.

Khan SJ and Ongerth JE. "Modelling of pharmaceutical residues in Australian sewage by quantities of use and fugacity calculations." *Chemosphere* **2004**, *54*(3):355-367; doi:10.1016/j.chemosphere.2003.07.001.

Khan SJ, Roser DJ, Davies CM, Peters GM, Stuetz RM, Tucker R*, et al.* "Chemical contaminants in feedlot wastes: Concentrations, effects and attenuation." *Environment International* **2008**, *34*(6):839-859; doi:10.1016/j.envint.2007.10.007.

Khan SJ, Wintgens T, Sherman P, Zaricky J, and Schafer AI. "Removal of hormones and pharmaceuticals in the advanced water recycling demonstration plant in Queensland, Australia." *Water Science and Technology* **2004**, *50*(5):15-22.

Khan U and Nicell JA. "Horseradish peroxidase-catalysed oxidation of aqueous natural and synthetic oestrogens." *Journal of Chemical Technology and Biotechnology* **2007**, *82*(9):818-830; doi:10.1002/jctb.1746.

Khanal SK, Xie B, Thompson ML, Sung S, Ong SK, and vanLeeuwen J. "Fate, Transport, and Biodegradation of Natural Estrogens in the Environment and Engineered Systems." *Environmental Science & Technology* **2006**, *40*(21):6537-6546.

Khetan SK and Collins TJ. "Human Pharmaceuticals in the Aquatic Environment: A Challenge to Green Chemistry." *Chemical Reviews* **2007**, *107*(6):2319-2364; doi:10.1021/cr020441w.

Kibbey TCG, Chen L, Singhaputtangkul N, and Sabatini DA. "A UV-transparent passive concentrator/spectrum deconvolution method for simultaneous detection of endocrine disrupting chemicals (EDCs) and related contaminants in natural waters." *Chemosphere* **2009**, *76*(9):1249-1257; doi:10.1016/j.chemosphere.2009.05.016.

Kibbey TCG, Paruchuri R, Sabatini DA, and Chen L. "Adsorption of Beta Blockers to Environmental Surfaces." *Environmental Science & Technology* **2007**, *41*(15):5349-5356.

Kibbey TCG and Sabatini DA. "The Influence of Amphiphilic Molecules on the Environmental Fate and Transport of Pharmaceuticals." EPA Grant Number: R829005, University of Oklahoma, USEPA, 2001-2005. http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/1062/report/0.

Kidd KA, Blanchfield PJ, Mills KH, Palace VP, Evans RE, Lazorchak JM*, et al.* "Collapse of a fish population after exposure to a synthetic estrogen." *Proceedings of the National Academy of Sciences of the United States of America* **2007**, *104*(21):8897-8901;

doi:10.1073/pnas.0609568104.

Kidwell DA, Holland JC, and Athanaselis S. "Testing for drugs of abuse in saliva and sweat." *Journal of Chromatography B: Biomedical Sciences and Applications* **1998**, *713*(1):111-135.

Kiffmeyer T, Gotze HJ, Jursch M, and Luders U. "Trace enrichment, chromatographic separation and biodegradation of cytostatic compounds in surface water." *Fresenius Journal of Analytical Chemistry* **1998**, *361*(2):185-191; doi:10.1007/s002160050859.

Kiffmeyer TK, Kube C, Opiolka S, Schmidt KG, Schoppe G, and Sessink PJM. "Vapor pressures, evaporation behavior and airborne concentrations of hazardous drugs: implications for occupational safety." *The Pharmaceutical Journal* **2002**, *268*:331-337.

Kikuta T. "Modelling of degradation of organic micropollutants in activated sludge process focusing on partition between water and sludge phases." Masters Dissertation, Department of Civil and Environmental Engineering, Tokyo, Japan, 2004. http://www.teu.ac.jp/urase/research/kikuta_master.pdf.

Kilgour BW, Munkittrick KR, Portt CB, Hedley K, Culp J, Dixit S*, et al.* "Biological criteria for municipal wastewater effluent monitoring programs." *Water Quality Research Journal of Canada* **2005**, *40*(3):374-387.

Kim HY, Yu SH, Lee MJ, Kim TH, and Kim SD. "Radiolysis of selected antibiotics and their toxic effects on various aquatic organisms." *Radiation Physics and Chemistry* **2009**, *78*(4):267-272; doi:10.1016/j.radphyschem.2009.01.010.

Kim I. "Applicability of UV-based and O_3-based Processes for the Reduction of Pharmaceuticals and Personal Care Products (PPCPs)." Doctoral Dissertation, Kyoto University, Kyoto, Japan, 2008. 190 pp; http://repository.kulib.kyoto-u.ac.jp/dspace/handle/2433/66192.

Kim I and Tanaka H. "Photodegradation characteristics of PPCPs in water with UV treatment." *Environment International* **2009**, *35*(5):793-802; doi:10.1016/j.envint.2009.01.003.

Kim I, Yamashita N, and Tanaka H. "Performance of UV and UV/H_2O_2 Processes for the removal of pharmaceuticals detected in secondary effluent of a sewage treatment plant in Japan." *Journal of Hazardous Materials* **2009**, *166*(2-3):1134-1140; doi:10.1016/j.jhazmat.2008.12.020.

Kim I, Yamashita N, and Tanaka H. "Photodegradation of pharmaceuticals and personal care products during UV and UV/H2O2 treatments." *Chemosphere* **2009**, *77*(4):518-525; doi:10.1016/j.chemosphere.2009.07.041.

Kim I, Yu ZQ, Xia BH, and Huang WL. "Sorption of male hormones by soils and sediments." *Environmental Toxicology and Chemistry* **2007**, *26*(2):264-270; doi:10.1897/06-270R1.1.

Kim IH, Tanaka H, Iwasaki T, Takubo T, Morioka T, and Kato Y. "Classification of the degradability of 30 pharmaceuticals in water with ozone, UV and H_2O_2." *Water Science and Technology* **2008**, *57*(2):195-200; doi:10.2166/wst.2008.808.

Kim IH, Yamashita N, Kato Y, and Tanaka H. "Discussion on the application of UV/H(2)O(2), O(3) and O(3)/UV processes as technologies for sewage reuse considering the removal of pharmaceuticals and personal care products." *Water Science and Technology* **2009**, *59*(5):945-955; doi:10.2166/wst.2009.076.

Kim J, Lee M, Oh S, Ku J-L, Kim K-H, and Choi K. "Acclimation to ultraviolet irradiation affects UV-B sensitivity of Daphnia magna to several environmental toxicants." *Chemosphere* **2009**, *In press*; doi:10.1016/j.chemosphere.2009.09.035.

Kim J, Park Y, and Choi K. "Phototoxicity and oxidative stress responses in Daphnia magna under exposure to sulfathiazole and environmental level ultraviolet B irradiation." *Aquatic Toxicology* **2009**, *91*(1):87-94; doi:10.1016/j.aquatox.2008.10.002.

Kim J, Song I, Lee S, Kim P, Oh H, Park J*, et al.* "Decompostion of pharmaceuticals (sulfamethazine and sulfathiazole) using oxygen-based membrane biofilm reactor." *Desalination* **2010**, *250*(2):751-756; doi:10.1016/j.desal.2008.11.035.

Kim J-H, Park P-K, Lee C-H, and Kwon H-H. "Surface modification of nanofiltration membranes to improve the removal of organic micro-pollutants (EDCs and PhACs) in drinking water treatment: Graft polymerization and cross-linking followed by functional group substitution." *Journal of Membrane Science* **2008**, *321*(2):190-198; doi:10.1016/j.memsci.2008.04.055.

Kim J-W, Ishibashi H, Yamauchi R, Ichikawa N, Takao Y, Hirano M*, et al.* "Acute toxicity of pharmaceutical and personal care products on freshwater crustacean (Thamnocephalus platyurus) and fish (Oryzias latipes)." *Journal of Toxicological Sciences* **2009**, *34*(2):227-232.

Kim J-W, Jang H-S, Kim J-G, Hiroshi I, Hirano M, Nasu K*, et al.* "Occurrence of pharmaceutical and personal care products (PPCPs) in surface water from Mankyung River, South Korea." *Journal of Health Science* **2009**, *55*(2):249-258.

Kim K and Kim P. "The Endocrine Disruption Induced by Ampicillin and Amoxicillin in Japanese Medaka (Oryzias latipes)." *Kor J Env Hlth*
Korean Journal of Environmental Health **2007**, *33*(3):207-210.

Kim S and Aga DS. "Potential ecological and human health impacts of antibiotics and antibiotic-resistant bacteria from wastewater treatment plants." *Journal of Toxicology and Environmental Health, Part B Critical Review* **2007**, *10*(8):559-573; doi:10.1080/15287390600975137.

Kim S, Eichhorn P, Jensen JN, Weber AS, and Aga DS. "Removal of antibiotics in wastewater: Effect of hydraulic and solid retention times on the fate of tetracycline in the activated sludge process." *Environmental Science & Technology* **2005**, *39*(15):5816-5823; doi:10.1021/es050006u.

Kim S, Jensen JN, Aga DS, and Weber AS. "Tetracycline as a selector for resistant bacteria in activated sludge." *Chemosphere* **2007**, *66*(9):1643-1651; doi:10.1016/j.chemosphere.2006.07.066.

Kim S, Weber AS, Batt A, and Aga DS. "Removal of Pharmaceuticals in Biological Wastewater Treatment Plants." in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press; Boca Raton, FL, 2007, Chapter 15, pp 349-362;
http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Treatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#PPR8,M1.

Kim SC and Carlson K. "Temporal and Spatial Trends in the Occurrence of Human and Veterinary Antibiotics in Aqueous and River Sediment Matrices." *Environmental Science & Technology* **2007**, *41*(1):50-57; doi:10.1021/es060737+.

Kim SC and Carlson K. "Analysis of Pharmaceuticals as Environmental Contaminants - Analysis of antibiotics in solid samples." *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle* **2007**, *Volume 50*:95-131; doi:10.1016/S0166-526X(07)50003-6.

Kim S-C and Carlson K. "LC-MS^2 for quantifying trace amounts of pharmaceutical compounds in soil and sediment matrices." *Trends in Analytical Chemistry* **2005**, *24*(7):635-644; doi:10.1016/j.trac.2005.04.006.

Kim S-C and Carlson K. "Occurrence of ionophore antibiotics in water and sediments of a mixed-landscape watershed." *Water Research* **2006**, *40*(13):2549-2560; doi:10.1016/j.watres.2006.04.036.

Kim S-C and Carlson K. "Quantification of human and veterinary antibiotics in water and sediment using SPE/LC/MS/MS." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1301-1315; doi:10.1007/s00216-006-0613-0.

Kim S-C, Davis JG, Carlson K, Truman CC, and Ascough Jr JC. "Simulated Rainfall Study for Transport of Veterinary Antibiotics - Mass Balance Analysis." *Journal of Hazardous Materials* **2009**, *In Press*; doi:10.1016/j.jhazmat.2009.10.086.

Kim SD, Cho J, Kim IS, Vanderford BJ, and Snyder SA. "Occurrence and removal of pharmaceuticals and endocrine disruptors in South Korean surface, drinking, and waste waters." *Water Research* **2007**, *41*(5):1013-1021; doi:10.1016/j.watres.2006.06.034.

Kim S-E, Yamada H, and Tsuno H. "Evaluation of Estrogenicity for 17β-estradiol Decomposition During Ozonation." *Ozone: Science & Engineering* **2004**, *26*(6):563 - 571; doi:10.1080/01919510490885370.

Kim Y, Choi K, Jung J, Park S, Kim P-G, and Park J. "Aquatic toxicity of acetaminophen, carbamazepine, cimetidine, diltiazem and six major sulfonamides, and their potential ecological risks in Korea." *Environment International* **2007**, *33*(3):370-375; doi:10.1016/j.envint.2006.11.017.

Kim Y, Jung J, Kim M, Park J, Boxall ABA, and Choi K. "Prioritizing veterinary pharmaceuticals for aquatic environment in Korea." *Environmental Toxicology and Pharmacology* **2008**, *26*(2):167-176; doi:10.1016/j.etap.2008.03.006.

Kim Y, Jung J, Oh S, and Choi K. "Aquatic toxicity of cartap and cypermethrin to different life stages of Daphnia magna and Oryzias latipes." *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants and Agricultural Wastes* **2008**, *43*(1):56 - 64; doi:10.1080/03601230701735029.

Kim YH and Cerniglia CE. "Influence of erythromycin A on the microbial populations in aquaculture sediment microcosms." *Aquatic Toxicology* **2006**, *73*(3):230-241; doi:10.1016/j.aquatox.2005.03.013.

Kim YH, Heinze TM, Kim SJ, and Cerniglia CE. "Adsorption and clay-catalyzed degradation of erythromycin A on homoionic clays." *Journal of Environmental Quality* **2004**, *33*(1):257-264.

Kim YH, Pak K, Pothuluri JV, and Cerniglia CE. "Mineralization of erythromycin A in aquaculture sediments." *FEMS Microbiology Ecology* **2004**, *234*(1):169-175; doi:10.1111/j.1574-6968.2004.tb09529.

Kim Y-H, Heinze TM, Beger R, Pothuluri JV, and Cerniglia CE. "A kinetic study on the degradation of erythromycin A in aqueous solution." *International Journal of Pharmaceutics* **2004**, *271*(1-2):63-76; doi:10.1016/j.ijpharm.2003.10.023.

Kimball B. "Endocrine disrupting chemical (EDC) accumulation in Puget Sound sediments and the implications for native fish populations." University of Washington, School of Oceanography, 2008. 17 pp; http://hdl.handle.net/1773/3770; https://digital.lib.wahington.edu/dspace/handle/1773/3770.

Kimber M. "Cleaner Waters." *Chemistry World* **2003**, *39*(5):26-30.

Kimmel CA and Makris SL. "Recent developments in regulatory requirements for developmental toxicology." *Toxicology Letters* **2001**, *120*(1-3):73-82; doi:10.1016/S0378-4274(01)00309-5.

Kimura A, Taguchi M, Arai H, Hiratsuka H, Namba H, and Kojima T. "Radiation-induced decomposition of trace amounts of 17 □-estradiol in water." *Radiation Physics and Chemistry* **2004**, *69*(4):295-301; doi:10.1016/S0969-806X(03)00470-5.

Kimura A, Taguchi M, Ohtani Y, Shimada Y, Hiratsuka H, and Kojima T. "Treatment of wastewater having estrogen activity by ionizing radiation." *Radiation Physics and Chemistry* **2007**, *76*(4):699-706; doi:10.1016/j.radphyschem.2006.04.005.

Kimura K, Amy G, Drewes J, and Watanabe Y. "Adsorption of hydrophobic compounds onto NF/RO membranes: an artifact leading to overestimation of rejection." *Journal of Membrane Science* **2003**, *221*(1-2):89-101; doi:10.1016/S0376-7388(03)00248-5.

Kimura K, Hara H, and Watanabe Y. "Removal of pharmaceutical compounds by submerged membrane bioreactors (MBRs)." *Desalination* **2005**, *178*(1-3):135-140; doi:10.1016/j.desal.2004.11.033.

Kimura K, Hara H, and Watanabe Y. "Elimination of Selected Acidic Pharmaceuticals from Municipal Wastewater by an Activated Sludge System and Membrane Bioreactors." *Environmental Science & Technology* **2007**, *41*(10):3708-3714.

Kimura K, Iwase T, Kita S, and Watanabe Y. "Influence of residual organic macromolecules produced in biological wastewater treatment processes on removal of pharmaceuticals by NF/RO membranes." *Water Research* **2009**, *43*(15):3751-3758; doi:10.1016/j.watres.2009.05.042.

Kimura K, Toshima S, Amy G, and Watanabe Y. "Rejection of neutral endocrine disrupting compounds (EDCs) and pharmaceutical active compounds (PhACs) by RO membranes." *Journal of Membrane Science* **2004**, *245*(1-2):71-78; doi:10.1016/j.memsci.2004.07.018.

Kinani S, Bouchonnet S, Creusot N, Bourcier S, Balaguer P, Porcher J-M*, et al.* "Bioanalytical characterisation of multiple endocrine- and dioxin-like activities in sediments from reference and impacted small rivers." *Environmental Pollution* **2009**, *In Press*; doi:10.1016/j.envpol.2009.07.041.

King-Heiden TC, Wiecinski PN, Mangham AN, Metz KM, Nesbit D, Pedersen JA*, et al.* "Quantum Dot Nanotoxicity Assessment Using the Zebrafish Embryo." *Environmental Science & Technology* **2009**, *43*(5):1605-1611; doi:10.1021/es801925c.

Kingsbury JA, Delzer GC, and Hopple JA. "Anthropogenic Organic Compounds in Source Water of Nine Community Water Systems that Withdraw from Streams, 2002–05." USGS, December 2008. 82 pp; http://pubs.usgs.gov/sir/2008/5208/.

Kinnberg K, Holbech H, Petersen GI, and Bjerregaard P. "Effects of the fungicide prochloraz on the sexual development of zebrafish (Danio rerio)." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2007**, *145*(2):165-170; doi:10.1016/j.cbpc.2006.11.002.

Kinney CA, Furlong ET, Cahill J, and Werner S. "Occurrence and behavior of wastewater derived pharmaceuticals in soils irrigated with reclaimed water." *Abstracts of Papers - American Chemical Society* **2004**, *227*(1 (28 March)):U1056-U1056.

Kinney CA, Furlong ET, Kolpin DW, Burkhardt MR, Zaugg SD, Werner SL*, et al.* "Bioaccumulation of Pharmaceuticals and Other Anthropogenic Waste Indicators in Earthworms from Agricultural Soil Amended With Biosolid or Swine Manure." *Environmental Science & Technology* **2008**, *42*(6):1863-1870; doi:10.1021/es702304c.

Kinney CA, Furlong ET, Kolpin DW, Burkhardt MR, Zaugg SD, Werner SL*, et al.* "Response to "Comment on 'Bioaccumulation of Pharmaceuticals and Other Anthropogenic Waste Indicators in Earthworms from Agricultural Soil Amended with Biosolid or Swine Manure'"." *Environmental Science & Technology* **2009**, *43*(2):545-547; doi:10.1021/es802721d.

Kinney CA, Furlong ET, Werner SL, and Cahill JD. "Presence and distribution of wastewater-derived pharmaceuticals in soil irrigated with reclaimed water." *Environmental Toxicology and Chemistry* **2006**, *25*(2):317-326; doi:10.1897/05-187R.1.

Kinney CA, Furlong ET, Zaugg SD, Burkhardt MR, Werner SL, Cahill JD*, et al.* "Survey of Organic Wastewater Contaminants in Biosolids Destined for Land Application." *Environmental Science & Technology* **2006**, *40*(23):7207-7215.

Kintz P, Tracqui A, Jamey C, and Mangin P. "Detection of Codeine and Phenobarbital in Sweat Collected with a Sweat Patch." *Journal of Analytical Toxicology* **1996**, *20*(3):197-210.

Kintz P, Tracqui A, and Mangin P. "Sweat testing for benzodiazepines." *Journal of Forensic Sciences* **1996**, *41*(5):851-854.

Kiparissis Y, Balch GC, Metcalfe TL, and Metcalfe CD. "Effects of the isoflavones genistein and equol on the gonadal development of Japanese medaka (Oryzias latipes)." *Environmental Health Perspectives* **2003**, *111*(9):1158-1163.

Kirigaya A, Hayashi S, Iguchi T, and Sato T. "Developmental effects of ethinylestradiol on reproductive organs of female mice." *In Vivo* **2006**, *20*(6B):867-873.

Kirk LA, Tyler CR, Lye CM, and Sumpter JP. "Changes in estrogenic and androgenic activities at different stages of treatment in wastewater treatment works." *Environmental Toxicology and Chemistry* **2002**, *21*(5):972-979; doi:10.1897/1551-5028(2002)021.

Kiss A and Fries E. "Occurrence of benzotriazoles in the rivers Main, Hengstbach, and Hegbach (Germany)." *Environmental Science and Pollution Research* **2009**, *16*(6):702-710; doi:10.1007/s11356-009-0179-4.

Kitamura K, Miyajima K, Higashitani T, Nakada N, Komori K, and Suzuki Y. "The Effect of Estrogens, River Water, and Treated Wastewater on Vitellogenin Induction of Japanese Medaka[1]." *Journal of the American Water Resources Association* **2009**, *45*(1):22-34; doi:10.1111/j.1752-1688.2008.00286.x.

Kizer MA and Smolen MD. "Treatment Methods for Removal of Pharmaceuticals and Hormones from Drinking Water." Oklahoma Cooperative Extension, 2009, http://pods.dasnr.okstate.edu/docushare/dsweb/Get/Document-4991/BAE-1523.pdf.

Kjær J, Olsen P, Bach K, Barlebo HC, Ingerslev F, Hansen M*, et al.* "Leaching of estrogenic hormones from manure-treated structured soils." *Environmental Science & Technology* **2007**, *41*(11):3911-3917; doi:10.1021/es0627747.

Klaassen C and Watkins J. "Casarett & Doull's Essentials of Toxicology." McGraw-Hill, 2003; http://www.amazon.com/Casarett-Doulls-Essentials-Toxicology-Klaassen/dp/0071389148.

Klagkou K, Pullen F, Harrison M, Organ A, Firth A, and Langley GJ. "Fragmentation pathways of sulphonamides under electrospray tandem mass spectrometric conditions." *Rapid Communications in Mass Spectrometry* **2003**, *17*(21):2373-2379; doi:10.1002/rcm.1201.

Klamerth N, Miranda N, Malato S, Agüera A, Fernández-Alba AR, Maldonado MI*, et al.* "Degradation of emerging contaminants at low concentrations in MWTPs effluents with mild solar photo-Fenton and TiO_2." *Catalysis Today* **2009**, *144*(1-2):124-130; doi:10.1016/j.cattod.2009.01.024.

Klamerth N, Rizzo L, Malato S, Maldonado MI, Agüera A, and Fernández-Alba AR. "Degradation of fifteen emerging contaminants at [mu]g L[mu]1 initial concentrations by mild solar photo-Fenton in MWTP effluents." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.09.059.

Klaschka U. "Odorants – Potent Substances at Minor Concentrations -The ecological role of infochemicals." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 19, pp 305-320; doi:10.1007/978-3-540-74664-5_19; http://www.springerlink.com/content/u2343024710vu703/?p=97dfb90332264725bf4ef8a85570afc6&pi=18.

Klaschka U. "The infochemical effect—a new chapter in ecotoxicology." *Environmental Science and Pollution Research* **2008**, *15*(6):452-462; doi:10.1007/s11356-008-0019-y.

Klaschka U and Kolossa-Gehring M. "Fragrances in the environment: Pleasant odours for nature?" *Environmental Science and*

Pollution Research **2007**, *14*(1):44-52; doi:10.1065/espr2007.01.380.

Klaschka U, Liebig M, and Knacker T. "Weniger Umweltbelastung durch Umweltzeichen: Arznei- und Körperpflegemittel [Medicinal and bodily products. Less environmental damage through ecolabels]." *Chemie in unserer Zeit* **2005**, *39*(2):122-128; doi:10.1002/ciuz.200400309.

Klaschka U, Liebig M, and Knacker T. "Eco-labelling of shampoos, shower gels and foam baths." *Environmental Science and Pollution Research* **2007**, *14*(1):24-29; doi:10.1065/espr2006.02.295.

Klaschka U, Liebig M, Moltmann JF, and Knacker T. "Potential environmental risks by cleaning hair and skin ECO-LABEL - A possibility to reduce exposure to personal care products." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 30, pp 411-428.

Klauke N and Plattner H. ""Frustrated exocytosis" - A novel phenomenon: Membrane fusion without contents release, followed by detachment and reattachment of dense core vesicles in Paramecium cells." *Journal of Membrane Biology* **2000**, *176*(3):237-248; doi:10.1007/s002320001093.

Klavarioti M, Mantzavinos D, and Kassinos D. "Removal of residual pharmaceuticals from aqueous systems by advanced oxidation processes." *Environment International* **2009**, *35*(2):402-417; doi:10.1016/j.envint.2008.07.009.

Klaverkamp JF, Palace VP, Baron CL, Evans RE, and Wautier KG. "Cumulative effects of multiple contaminants on caged fish." *Water Quality Research Journal of Canada* **2006**, *41*(3):344-255.

Klecka GM, Staples CA, Losey BS, and Woodburn KB. "Assessment of the persistence and bioaccumulation potential for nonylphenol, octylphenol, and their ethoxylates for categorization and screening of the Canadian Domestic Substance List (dsl)." 16 September, 2005, 42 pp; http://www.aperc.org/docs/np_npe_op_ope_csdsl_091605.pdf.

Klee N, Gustavsson L, Kosmehl T, Engwall M, Erdinger L, Braunbeck T*, et al.* "Changes in toxicity and genotoxicity of industrial sewage sludge samples containing nitro- and amino-aromatic compounds following treatment in bioreactors with different oxygen regimes." *Environmental Science and Pollution Research* **2004**, *11*(5):313-320; doi:10.1007/BF02979645.

Klein A. "Book review: Insights 9 - Assessing Illicit Drugs in Wastewater: Potential and limitations of a new monitoring approach." *Drugs and Alcohol Today* **2009**, *9*(1):34-36.

Klein C. "Degradation of 17α-ethinylestradiol in wastewater treatment systems." Doctoral Dissertation, State University of New York at Buffalo, Buffalo, New York, 2007. 165 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2257959,FM=9,SEARCH=MD.GenericSearch.

Klein C, O'Connor S, Locke J, and Aga DS. "Sample Preparation and Analysis of Solid-Bound Pharmaceuticals." in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press; Boca Raton, FL, 2007, Chapter 3, pp 81-100; http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Treatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#PPR8,M1.

Klein J, Karaskov T, and Koren G. "Clinical applications of hair testing for drugs of abuse -- the Canadian experience." *Forensic Science International* **2000**, *107*(1-3):281-288; doi:10.1016/S0379-0738(99)00171-1.

Kleiner DK, Katz SE, and Ward PML. "Development of in vitro antimicrobial resistance in bacteria exposed to residue level exposures of antimicrobial drugs, pesticides and veterinary drugs." *Chemotherapy* **2007**, *53*(2):132-136; doi:10.1159/000100012.

Kleinow KM, Jarboe HH, Shoemaker KE, and Greenless KJ. "Comparative pharmacokinetics and bioavailability of oxolinic acid in channel catfish (*Ictalurus punctatus*) and rainbow trout (*Oncorhynchus mykiss*)." *Canadian Journal of Fisheries and Aquatic Sciences* **1994**, *51*:1205-1211.

Kleymenova E, Swanson C, Boekelheide K, and Gaido KW. "Exposure in utero to di(n-butyl) pthalate alters the vimentin cytoskeleton of fetal rat sertoli cells and disrupts sertoli cell-gonocyte contact." *Biology of Reproduction* **2005**, *73*(3):482-490; doi:10.1095/biolreprod.104.037184.

Kleywegt S, Smyth S-A, Parrott J, Schaefer K, Lagacé E, Payne M*, et al.* "Pharmaceuticals and personal care products in the Canadian environment: research and policy directions." Niagara-on-the-Lake, Ontario, Canada, 5-7 March, 2007, 53 pp;

http://www.nwri.ca/ppcp-ppsp/pdfs/ppcp-ppsp_2007-e.pdf, http://www.ec.gc.ca/INRE-NWRI/default.asp?lang=En&n=C00A589F-1.

Klick S, Muijselaar PG, Waterval J, Eichinger T, Korn C, Gerding TK, *et al.* "Toward a Generic Approach for Stress Testing of Drug Substances and Drug Products." *Pharmaceutical Technology* **2005**:48-66.

Kloas W and Lutz I. "Amphibians as model to study endocrine disrupters." *Journal of Chromatography A* **2006**, *1130*(1):16-27; doi:10.1016/j.chroma.2006.04.001.

Kloas W, Lutz I, and Einspanier R. "Amphibians as a model to study endocrine disruptors: II. Estrogenic activity of environmental chemicals in vitro and in vivo." *Science of the Total Environment* **1999**, *225*(1-2):59-68; doi:10.1016/S0048-9697(99)80017-5.

Kloas W, Urbatzka R, Opitz R, Würtz S, Behrends T, Björn, *et al.* "Endocrine Disruption in Aquatic Vertebrates." *Trends in Comparative Endocrinology and Neurobiology* **2009**, *1163*:187-200; doi:10.1111/j.1749-6632.2009.04453.x.

Kloepfer A, Quintana JB, and Reemtsma T. "Operational options to reduce matrix effects in liquid chromatography-electrospray ionisation-mass spectrometry analysis of aqueous environmental samples." *Journal of Chromatography A* **2005**, *1067*(1-2):153-160; doi:10.1016/j.chroma.2004.11.101.

Knacker T, Duis K, Ternes T, Fenner K, Escher B, Schmitt H, *et al.* "The EU-project ERAPharm. Incentives for the further development of guidance documents?" *Environmental Science and Pollution Research* **2005**, *12*(2):62-65; doi:10.1065/espr2005.02.238.

Knacker T, Liebig M, and Moltmann JF. "Environmental risk assessment." in *Human Pharmaceuticals, Hormones and Fragrances: The challenges of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, Seattle, 2006, pp 121-147; http://www.iwapublishing.com/template.cfm?name=isbn1843390930.

Knacker T, Liebig M, and Moltmann JF. "Environmental risk assessment." in *Human pharmaceuticals, hormones and fragrances: The challenge of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, UK, 2007, Chapter 4b, pp 121-148; http://books.google.com/books?id=X9Sb4mVGF-oC&dq=Human+pharmaceuticals,+hormones+and+fragrances:++The+challenge+of+micropollutants+in+urban+water+management&printsec=frontcover&source=bn&hl=en&ei=DzGcSuP5NqWEmQeYscjABA&sa=X&oi=book_result&ct=result&resnum=4#v=onepage&q=&f=false.

Knacker T, Liebig M, and Moltmann JF. "Comparison of prospective and retrospective environmental risk assessments of human pharmaceuticals." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 23, pp 385-391; doi:10.1007/978-3-540-74664-5_23; http://www.springerlink.com/content/n467248l42142057/?p=9ed3dcab782d422fa25c2de402461f54&pi=22.

Knacker T, Moltmann JF, Duis K, and Liebig M. "Unterschiede in der Umweltrisikobewertung von Pharmaka und Industriechemikalien - Konsequenzen für endokrin wirksame Substanzen [Differences in the environmental risk assessment of pharmaceuticals and industrial chemicals - consequences for endocrine disrupting substances]." in *Spurenstoffe in Gewässern - Pharmazeutische Reststoffe und endokrin wirksame Substanzen [Trace substances in the aquatic environment: Pharmaceutical residues and endocrine disrupting chemicals]*, Track T and Kreysa G, Eds., Wiley-VCH; Weinheim, Germany, 2003, pp; http://books.google.com/books?id=ngoAgrzw_iIC&dq=Spurenstoffe+in+Gew%C3%A4ssern+-+Pharmazeutische+Reststoffe+und+endokrin+wirksame+Substanzen&printsec=frontcover&source=bl&ots=Q66nBoJks_&sig=xAwr2PWCbyVc-I_msVvr6FWLjG0&hl=en&ei=YzOxSpS1M5ye8QafyMnCDg&sa=X&oi=book_result&ct=result&resnum=1#v=onepage&q=&f=false.

Knapp CW, Caquet T, Hanson ML, Lagadic L, and Graham DW. "Response of water column microbial communities to sudden exposure to deltamethrin in aquatic mesocosms." *FEMS Microbiology Ecology* **2005**, *54*(1):157-165; doi:10.1016/j.femsec.2005.03.004.

Knapp CW, Cardoza LA, Hawes JN, Wellington EMH, Larive CK, and Graham DW. "Fate and Effects of Enrofloxacin in Aquatic Systems under Different Light Conditions." *Environmental Science & Technology* **2005**, *39*(23):9140-9146; doi:10.1021/es050895l.

Knapp CW, Engemann CA, Hanson ML, Keen PL, Hall KJ, and Graham DW. "Indirect Evidence of Transposon-Mediated Selection of Antibiotic Resistance Genes in Aquatic Systems at Low-Level Oxytetracycline Exposures." *Environmental Science & Technology* **2008**, *42*(14):5348-5353; doi:10.1021/es703199g.

KNAPPE. "Pharmaceutical products in the environment - From the patient to the environment." *6th Framework Programme* **2008**, (Deliverable number D6.4 Information Letter) 2 pp.

KNAPPE "Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters." 2008, http://www.knappe-eu.org/index.php?m=1.

KNAPPE. "Workshop Report - KNAPPE (European Union Sixth Framework Project) final meeting." *Journal of Environmental Monitoring* **2009**, *11*:21-22; doi:10.1039/b819163h.

Knappe A, Fritz B, Pekdeger A, Moller P, Dulski P, and H-W. H. "Using the REE gadolinium as a new tracer for sewage influence in aqueous urban systems." in 2001 Proc. International Symposium Water-Rock Interaction, Villasimius, Italy, 2001.

Knappe A, Moller P, Dulski P, and Pekdeger A. "Positive gadolinium anomaly in surface water and ground water of the urban area Berlin, Germany." *Chemie der Erde-Geochemistry* **2005**, *65*(2):167-189; doi:10.1016/j.chemer.2004.08.004.

KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters. "Introductory Note to Sessions on 'Policy Instruments'." in Environmental Stewardship of Pharmaceuticals and Policy Instruments, York, UK, 29-30 April, 2008, www.knappe-eu.org.

KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters. "KNAPPE Workshop Proceedings." in Environmental Stewardship of Pharmaceuticals and Policy Instruments, York, UK, 29-30 April, 2008, www.knappe-eu.org.

Knepper TP. "Analysis and mass spectrometric characterization of the insect repellent Bayrepel and its main metabolite Bayrepel-acid." *Journal of Chromatography A* **2004**, *1046*(1-2):159-166; doi:10.1016/j.chroma.2004.06.067.

Knepper TP. "Analysis and fate of insect repellents." *Water Science and Technology* **2004**, *50*(5):301-308.

Knitt LE, Shapley JR, and Strathmann TJ. "Rapid Metal-Catalyzed Hydrodehalogenation of Iodinated X-Ray Contrast Media." *Environmental Science & Technology* **2008**, *42*(2):577-583.

Knoblauch JA. "Europe leads effort to push for design of "green" drugs." Environmental Health News, 2009, Environmental Health Sciences, 4 February http://www.environmentalhealthnews.org/ehs/news/benign-drugs-by-design.

Knopp D, Deng A, Letzel M, Taggart M, Himmelsbach M, Zhu O-Z*, et al.* "Immunological Determination of the Pharmaceutical Diclofenac in Environmental and Biological Samples." in *Rational Environmental Management of Agrochemicals*, American Chemical Society; Washington, DC, 2009, Chapter 13, pp 203-226; doi:10.1021/bk-2007-0966.ch013; http://dx.doi.org/10.1021/bk-2007-0966.ch013.

Kobayashi T, Hirose J, Sano K, Hiro N, Ijiri Y, Takiuchi H*, et al.* "Evaluation of an electrolysis apparatus for inactivating antineoplastics in clinical wastewater." *Chemosphere* **2008**, *72*(4):659-665; doi:10.1016/j.chemosphere.2008.02.020.

Kobayashi Y, Yasojima M, Komori K, Suzuki Y, and Tanaka H. "Removal Characteristics of Human Antibiotics during Wastewater Treatment in Japan." *Water Practice & Technology* **2006**, *1*(3); doi:10.2166/wpt.2006.0059.

Kobori H, Ham Y-S, and Saito T. "Influence of treated sewage effluent on organic pollution assessment in the Sakai River basin in Central Japan." *Environmental Monitoring and Assessment* **2009**, *151*(1-4):243=240; doi:10.1007/s10661-008-0265-y.

Koc F, Uney K, Atamanalp M, Tumer I, and Kaban G. "Pharmacokinetic disposition of enrofloxacin in brown trout (Salmo trutta fario) after oral and intravenous administrations." *Aquaculture* **2009**, *295*(1-2):142-144; doi:10.1016/j.aquaculture.2009.06.004.

Koch DE, Bhandari A, Close L, and Hunter RP. "Azithromycin extraction from municipal wastewater and quantitation using liquid chromatography/mass spectrometry." *Journal of Chromatography A* **2005**, *1074*(1-2):17-22; doi:10.1016/j.chroma.2005.03.052.

Koda T, Umezu T, Kamata R, Morohoshi K, Ohta T, and Morita M. "Uterotrophic effects of benzophenone derivatives and a p-hydroxybenzoate used in ultraviolet screens." *Environmental Research* **2005**, *98*(1):40-45; doi:10.1016/j.envres.2004.05.015.

Koehler A and Wildbolz C. "Comparing the Environmental Footprints of Home-Care and Personal-Hygiene Products: The Relevance of Different Life-Cycle Phases." *Environmental Science & Technology* **2009**, *43*(22):8643-8651; doi:10.1021/es901236f.

Koesukwiwat U, Jayanta S, and Leepipatpiboon N. "Validation of a liquid chromatography-mass spectrometry multi-residue method for the simultaneous determination of sulfonamides, tetracyclines, and pyrimethamine in milk." *Journal of Chromatography A* **2007**, *1140*(1-2):147-156; doi:10.1016/j.chroma.2006.11.099.

Koesukwiwat U, Jayanta S, and Leepipatpiboon N. "Solid-phase extraction for multiresidue determination of sulfonamides, tetracyclines, and pyrimethamine in bovine's milk." *Journal of Chromatography A* **2007**, *1149*(1):102-111.

Koeypudsa W, Yakupitiyage A, and Tangtrongpiros J. "The fate of chlortetracycline residues in a simulated chicken-fish integrated farming systems." *Aquaculture Research* **2005**, *36*(6):570-577; doi:10.1111/j.1365-2109.2005.01255.x.

Koh YK, Chiu TY, Boobis A, Cartmell E, Lester JN, and Scrimshaw MD. "Determination of steroid estrogens in wastewater by high performance liquid chromatography - tandem mass spectrometry." *Journal of Chromatography A* **2007**, *1173*(1-2):81-87; doi:10.1016/j.chroma.2007.09.074.

Koh YKK, Chiu TY, Boobis A, Cartmell E, Scrimm, and Lester JN. "Treatment and removal strategies for estrogens from wastewater." *Environmental Technology* **2008**, *29*(3):245-267; doi:10.1080/09593330802099122.

Koh YKK, Chiu TY, Boobis AR, Scrimshaw MD, Bagnall JP, Soares A*, et al.* "Influence of Operating Parameters on the Biodegradation of Steroid Estrogens and Nonylphenolic Compounds during Biological Wastewater Treatment Processes." *Environmental Science & Technology* **2009**, *43*(17):6646-6654; doi:10.1021/es901612v.

Köhler H-R, Sandu C, Scheil V, Nagy-Petrică E, Segner H, Telcean I*, et al.* "Monitoring Pollution in River MureŞ, Romania, Part III: biochemical effect markers in fish and integrative reflection." *Environmental Monitoring and Assessment* **2007**, *127*(1):47-54; doi:10.1007/s10661-006-9257-y.

Kohn MC, Parham F, Masten SA, Portier CJ, Shelby MD, and Needham LL. "Human exposure estimates for phthalates." *Environmental Health Perspectives* **2000**, *108*(10):A440-A442.

Koike S, Krapac IG, Oliver HD, Yannarell AC, Chee-Sanford JC, Aminov RI*, et al.* "Monitoring and Source Tracking of Tetracycline Resistance Genes in Lagoons and Groundwater Adjacent to Swine Production Facilities over a 3-Year Period." *Applied and Environmental Microbiology* **2007**, *73*(15):4813-4823; doi:10.1128/AEM.00665-07.

Köllner B, Wasserrab B, Fisher U, Kotterba G, and van den Heuvel M. "How Can Toxic Effects of Pollution of the Aquatic Environment on the Immunocompetence of Fishes Be Detected?: A Discussion on the Relevance of the Biomarkers Philosophy." *Hot Spot Pollutants: Pharmaceuticals in the Environment* **2004**:143-164.

Kollner B, Wasserrab B, Kotterba G, and Fisher U. "Evaluation of immune functions of rainbow trout (Oncorhynchus mykiss)-how can environmental influences be detected?" *Toxicology Letters* **2002**, *131*(1-2):83-95; doi:10.1016/S0378-4274(02)00044-9.

Kolodziej EP, Gray JL, and Sedlak DL. "Quantification of steroid hormones with pheromonal properties in municipal wastewater effluent." *Environmental Toxicology and Chemistry* **2003**, *22*(11):2622-2629; doi:10.1897/03-42.

Kolodziej EP, Harter T, and Sedlak DL. "Dairy wastewater, aquaculture, and spawning fish as sources of steroid hormones in the aquatic environment." *Environmental Science & Technology* **2004**, *38*(23):6377-6384; doi:10.1021/es049585d.

Kolodziej EP and Seldak DL. "Rangeland grazing as a source of steroid hormones to surface waters." *Environmental Science & Technology* **2007**, *41*(10):3514-3520; doi:10.1021/es063050y.

Kolok AS and Sellin MK. "The Environmental Impact of Growth-Promoting Compounds Employed by the United States Beef Cattle Industry: History, Current Knowledge, and Future Directions." in *Reviews of Environmental Contamination and Toxicology*, Springer New York; 2008, pp 1-30; doi:10.1007/978-0-387-77030-7_1; http://dx.doi.org/10.1007/978-0-387-77030-7_1.

Kolossa-Gehring M. "Fragrances in the Environment: Pleasant odours for nature?" *Environmental Science and Pollution Research* **2007**, *14*(1):44-52; doi:10.1065/espr2007.01.380.

Kolpin DW, Battaglin WA, Conn KE, Furlong ET, Glassmeyer ST, Kalkhoff SJ*, et al.* "Occurrence of Transformation Products in the Environment." in *Transformation Products of Synthetic Chemicals in the Environment*, Springer Berlin/Heidelberg; Berlin/Heidelberg, Germany, 2009, pp 83-100; doi:10.1007/698_2_011; http://dx.doi.org/10.1007/698_2_011.

Kolpin DW, Furlong ET, Meyer MT, Thurman EM, Zaugg SD, Barber LB*, et al.* "Pharmaceuticals, hormones, and other organic wastewater contaminants in U.S. streams, 1999-2000: a national reconnaissance." *Environmental Science & Technology* **2002**, *36*(6):1202-1211; doi:10.1021/es011055j.

Kolpin DW, Furlong ET, Meyer MT, Thurman EM, Zaugg SD, Barber LB*, et al.* "Response to comment on 'Pharmaceuticals, hormones, and other organic wastewater contaminants in US streams, 1999-2000: A national reconnaissance'." *Environmental Science & Technology* **2002**, *36*(18):4007-4008.

Kolpin DW, Skopec M, Meyer MT, Furlong ET, and Zaugg SD. "Urban contribution of pharmaceuticals and other organic wastewater contaminants to streams during differing flow conditions." *Science of the Total Environment* **2004**, *328*(1-3):119-130; doi:10.1016/j.scitotenv.2004.01.015S0048-9697(04)00056-7.

Kolpin DW, Thurman EM, Lee EA, Meyer MT, Furlong ET, and Glassmeyer ST. "Urban contributions of glyphosate and its degradate AMPA to streams in the United States." *Science of the Total Environment* **2006**, *354*(2-3):191-197; doi:10.1016/j.scitotenv.2005.01.028.

Kolpin DW, Thurman EM, and Linhart SM. "The environmental occurrence of herbicides: The importance of degradates in ground water." *Archives of Environmental Contamination and Toxicology* **1998**, *35*(3):385-390; doi:10.1007/s002449900392.

Kolz AC, Moorman TB, Ong SK, Scoggin KD, and Douglass EA. "Degradation and metabolite production of tylosin in anaerobic and aerobic swine-manure lagoons." *Water Environment Research* **2005**, *77*(1):49-56; doi:10.2175/106143005X41618.

Kolz AC, Ong SK, and Moorman TB. "Sorption of tylosin onto swine manure." *Chemosphere* **2005**, *60*(2):284-289; doi:10.1016/j.chemosphere.2005.02.094.

Komori K, Tanaka H, Okayasu Y, Yasojima M, and Sato C. "Analysis and occurrence of estrogen in wastewater in Japan." *Water Science and Technology* **2004**, *50*(5):93-100.

Konek CT, Illg KD, Al-Abadleh HA, Voges AB, Yin G, Musorrafiti MJ*, et al.* "Nonlinear optical studies of the agricultural antibiotic morantel interacting with silica/water interfaces." *Journal of the American Chemical Society* **2005**, *127*(45):15771-15777; doi:10.1021/ja054837b.

Kong RYC, Giesy JP, Wu RSS, Chen EXH, Chiang MWL, Lim PL*, et al.* "Development of a marine fish model for studying in vivo molecular responses in ecotoxicology." *Aquatic Toxicology* **2008**, *86*(2):131-141; doi:10.1016/j.aquatox.2007.10.011.

Kong WD, Zhu YG, Fu BJ, Marschner P, and He JZ. "The veterinary antibiotic oxytetracycline and Cu influence functional diversity of the soil microbial community." *Environmental Pollution* **2006**, *143*(1):129-137; doi:10.1016/j.envpol.2005.11.003.

Kong WD, Zhu YG, Liang YC, Zhang J, Smith FA, and Yang A. "Uptake of oxytetracycline and its phytotoxicity to alfalfa (Medicago sativa L.)." *Environmental Pollution* **2007**, *147*(1):187-193; doi:10.1016/j.envpol.2006.08.016.

Konwick BJ, Garrison AW, Avants JK, and Fisk AT. "Bioaccumulation and biotransformation of chiral triazole fungicides in rainbow trout (Oncorhynchus mykiss)." *Aquatic Toxicology* **2006**, *80*(4):372-381; doi:10.1016/j.aquatox.2006.10.003.

Kools SA, Boxall A, Moltmann JF, Bryning G, Koschorreck J, and Knacker T. "A ranking of European veterinary medicines based on environmental risks." *Integrated Environmental Assessment and Management* **2008**, *4*(4):399-408; doi:10.1897/IEAM_2008-002.1.

Kools SAE, Moltmann JF, and Knacker T. "Estimating the use of veterinary medicines in the European union." *Regulatory Toxicology and Pharmacology* **2008**, *50*(1):59-65; doi:10.1016/j.yrtph.2007.06.003.

Korfmacher WA, Ed., "Using Mass Spectrometry for Drug Metabolism Studies." CRC Press, Washington, DC, 2004, 369 pp; http://books.google.com/books?hl=en&id=zfQp5oDe_PsC&dq=Using+Mass+Spectrometry+for+Drug+Metabolism+Studies&printsec=frontcover&source=web&ots=Tp4GOWreGl&sig=yLc3zgJ_gYxvkM3LFdXsLDzXwJg&sa=X&oi=book_result&resnum=3&ct=result.

Kormos JL. "Occurrence and seasonal variability of selected pharmaceuticals in Southern Ontario drinking water supplies." Masters Dissertation, University of Waterloo, Waterloo, Ontario, Canada, 2007. 176 pp; http://uwspace.uwaterloo.ca/bitstream/10012/2774/1/MSc%20Thesis%20JKormos%20Final.pdf.

Kormos JL, Schulz M, Wagner M, and Ternes TA. "Multistep Approach for the Structural Identification of Biotransformation Products of Iodinated X-ray Contrast Media by Liquid Chromatography/Hybrid Triple Quadrupole Linear Ion Trap Mass Spectrometry and ^{1}H and ^{13}C Nuclear Magnetic Resonance." *Analytical Chemistry* **2009**, *81*(22):9216-9224; doi:10.1021/ac9011717.

Körner O, Kohno S, Schönenberger R, Suter MJF, Knauer K, Guillette Jr LJ*, et al.* "Water temperature and concomitant waterborne ethinylestradiol exposure affects the vitellogenin expression in juvenile brown trout (Salmo trutta)." *Aquatic Toxicology* **2008**, *90*(3):188-196; doi:10.1016/j.aquatox.2008.08.012.

Korner O, Vermeirssen ELM, and Burkhardt-Holm P. "Reproductive health of brown trout inhabiting Swiss rivers with declining fish catch." *Aquatic Sciences* **2007**, *69*(1):26-40; doi:10.1007/s00027-006-0842-5.

Korner W, Hanf V, Schuller W, Kempter C, Metzger J, and Hagenmaier H. "Development of a sensitive E-screen assay for quantitative analysis of estrogenic activity in municipal sewage plant effluents." *Science of the Total Environment* **1999**, *225*(1-2):33-48; doi:10.1016/S0048-9697(99)80015-1.

Korobkin R and Rajkumar R. "The Genetic Information Nondiscrimination Act -- A Half-Step toward Risk Sharing." *New England Journal of Medicine* **2008**, *359*(4):335-337; doi:10.1056/NEJMp0804352.

Korsgaard B, Andreassen TK, and Rasmussen TH. "Effects of an environmental estrogen, 17α-ethinyl-estradiol, on the maternal-fetal trophic relationship in the eelpout Zoarces viviparus (L)." *Marine Environmental Research* **2002**, *54*(3-5):735-739; doi:10.1016/S0141-1136(02)00112-5.

Korshin GV, Kim J, and Gan L. "Comparative study of reactions of endocrine disruptors bisphenol A and diethylstilbestrol in electrochemical treatment and chlorination." *Water Research* **2006**, *40*(5):1070-1078; doi:10.1016/j.watres.2006.01.003.

Kortenkamp A "Complete list of publications." http://www.pharmacy.ac.uk/andreas_kortenkamp.html.

Kortenkamp A. "Introduction: Endocrine Disruptors—Exposure Assessment, Novel End Points, and Low-Dose and Mixture Effects." *Environmental Health Perspectives* **2007**, *115*(S-1):7; doi:10.1289/ehp.10517.

Kortenkamp A and Altenburger R. "Synergisms with mixtures of xenoestrogens: A reevaluation using the method of isoboles." *Science of the Total Environment* **1998**, *221*(1):59-73; doi:10.1016/S0048-9697(98)00261-7.

Kortenkamp A and Altenburger R. "Approaches to assessing combination effects of oestrogenic environmental pollutants." *Science of the Total Environment* **1999**, *233*(1-3):131-140.

Kortenkamp A, Faust M, Scholze M, and Backhaus T. "Low-Level Exposure to Multiple Chemicals: Reason for Human Health Concerns?" *Environmental Health Perspectives* **2007**, *115*(S1):106-114; doi:10.1289/ehp.9358.

Kortner TM and Arukwe A. "Effects of 17α-methyltestosterone exposure on steroidogenesis and cyclin-B mRNA expression in previtellogenic oocytes of Atlantic cod (Gadus morhua)." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2007**, *146*(4):569-580; doi:10.1016/j.cbpc.2007.07.001.

Koschorreck J and Apel P. "A Brief Overview on the Legal Background and the Regulatory Instruments of the Environmental Risk Assessment for Pharmaceuticals in the EU, USA, Japan, Australia and Canada." in *Human Pharmaceuticals, Hormones and Fragrances. The challenge of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, Seattle, 2006, pp 107-119; http://www.iwapublishing.com/template.cfm?name=isbn1843390930.

Koschorreck J and Apel P. "A brief overview on the legal background and the regulatory instruments of the environmental risk assessment for pharmaceuticals in the EU, USA, Japan, Australia and Canada." in *Human pharmaceuticals, hormones and fragrances: The challenge of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, UK, 2007, Chapter 4a, pp 107-120; http://books.google.com/books?id=X9Sb4mVGF-oC&dq=Human+pharmaceuticals,+hormones+and+fragrances:++The+challenge+of+micropollutants+in+urban+water+management&printsec=frontcover&source=bn&hl=en&ei=DzGcSuP5NqWEmQeYscjABA&sa=X&oi=book_result&ct=result&resnum=4#v=onepage&q=&f=false.

Koschorreck J and de Kneckt J. "Environmental risk assessment of pharmaceuticals in the EU - A regulatory perspective." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Heidelberg, New York, 2004, Chapter 22, pp 289-310; http://www.cplbookshop.com/contents/C772.htm.

Koschorreck J and Hickmann S. "European Developments in the Environmental Risk Assessment of Pharmaceuticals." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 20, pp 323-334; doi:10.1007/978-3-540-74664-5_20; http://www.springerlink.com/content/r88mk9641300477q/?p=97dfb90332264725bf4ef8a85570afc6&pi=19.

Koschorreck J, Koch C, and Ronnefahrt I. "Environmental risk assessment of veterinary medicinal products in the EU--a regulatory perspective." *Toxicology Letters* **2002**, *131*(1-2):117-124; doi:10.1016/S0378-4274(02)00047-4.

Kosjek T, Andersen HR, Kompare B, Ledin A, and Heath E. "Fate of Carbamazepine during Water Treatment." *Environmental Science & Technology* **2009**, *43*(16):6256-6261; doi:10.1021/es900070h.

Kosjek T and Heath E. "Applications of mass spectrometry to identifying pharmaceutical-transformation products in water treatment."

Trends in Analytical Chemistry **2008**, *27*(10):807-820; doi:10.1016/j.trac.2008.08.014.

Kosjek T, Heath E, and Kompare B. "Removal of pharmaceutical residues in a pilot wastewater treatment plant." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1379-1387; doi:10.1007/s00216-006-0969-1.

Kosjek T, Heath E, and Krbavcic A. "Determination of non-steroidal anti-inflammatory drug (NSAIDs) residues in water samples." *Environment International* **2005**, *31*(5):679-685; doi:10.1016/j.envint.2004.12.001.

Kosjek T, Heath E, Pérez S, Petrovic M, and Barceló D. "Metabolism studies of diclofenac and clofibric acid in activated sludge bioreactors using liquid chromatography with quadrupole - time-of-flight mass spectrometry." *Journal of Hydrology* **2009**, *372*(1-4):109-117; doi:10.1016/j.jhydrol.2009.04.006.

Kosjek T, Heath E, Petrovic M, and Barceló D. "Mass spectrometry for identifying pharmaceutical biotransformation products in the environment." *Trends in Analytical Chemistry* **2007**, *26*(11):1076-1085; doi:10.1016/j.trac.2007.10.005.

Kosjek T, Zigon D, Kralj B, and Heath E. "The use of quadrupole-time-of-flight mass spectrometer for the elucidation of diclofenac biotransformation products in wastewater." *Journal of Chromatography A* **2008**, *1215*(1-2):57-63; doi:10.1016/j.chroma.2008.10.111.

Kosonen J and Kronberg L. "The occurrence of antihistamines in sewage waters and in recipient rivers." *Environmental Science and Pollution Research* **2009**, *16*(5):555-564; doi:10.1007/s11356-009-0144-2.

Kosta L, Isbell AF, and Allen HE. "Other people's drugs." *Letters* **2000**, *78*(23):8-10.

Kostich MS and Lazorchak JM. "Risks to aquatic organisms posed by human pharmaceutical use." *Science of the Total Environment* **2008**, *389*(2-3):329-339; doi:10.1016/j.scitotenv.2007.09.008.

Kostopoulou M and Nikolaou A. "Analytical problems and the need for sample preparation in the determination of pharmaceuticals and their metabolites in aqueous environmental matrices." *Trends in Analytical Chemistry* **2008**, *27*(11):1023-1035; doi:10.1016/j.trac.2008.09.011.

Kosutic K, Dolar D, Asperger D, and Kunst B. "Removal of antibiotics from a model wastewater by RO/NF membranes." *Separation and Purification Technology* **2007**, *53*(3):244-249; doi:10.1016/j.seppur.2006.07.015.

Kotchen M, Kallaos J, Wheeler K, Wong C, and Zahller M. "Pharmaceuticals in wastewater: Behavior, preferences, and willingness to pay for a disposal program." *Journal of Environment Management* **2009**, *90*(3):1476-1482; doi:10.1016/j.jenvman.2008.10.002.

Kot-Wasik A, Debska J, and Namiesnik J. "Analytical techniques in studies of the environmental fate of pharmaceuticals and personal-care products." *Trends in Analytical Chemistry* **2007**, *26*(6):557-568; doi:10.1016/j.trac.2006.11.004.

Kot-Wasik A, Dębska J, Wasik A, and Namieśnik J. "Determination of non-steroidal anti-inflammatory drugs in natural waters using off-line and on-line SPE followed by LC coupled with DAD-MS." *Chromatographia* **2006**, *64*(1-2):13-21; doi:10.1365/s10337-006-0797-7.

Kotzerke A, Sharma S, Schauss K, Heuer H, Thiele-Bruhn S, Smalla K*, et al.* "Alterations in soil microbial activity and N-transformation processes due to sulfadiazine loads in pig-manure." *Environmental Pollution* **2008**, *153*(2):315-322; doi:10.1016/j.envpol.2007.08.020.

Kouadio LD, Traore SK, Bekro Y-A, Véronique M, Dembele A, Mamadou K*, et al.* "Contamination des Eaux de Surface par les Produits Pharmaceutiques en Zones Urbaines de Côte D'ivoire: Cas du District D'abidjan [Contamination of surface waters by Products Pharmaceuticals in urban areas of Cote D'ivoire: Case of District D'abidjan]." *European Journal of Scientific Research* **2009**, *27*(1):140-151.

Koutsaftis A and Aoyama I. "Toxicity of four antifouling biocides and their mixtures on the brine shrimp Artemia salina." *Science of the Total Environment* **2007**, *387*(1-3):166-174; doi:10.1016/j.scitotenv.2007.07.023.

Koutsouba V, Heberer T, Fuhrmann B, Schmidt-Baumler K, Tsipi D, and Hiskia A. "Determination of polar pharmaceuticals in sewage water of Greece by gas chromatography-mass spectrometry." *Chemosphere* **2003**, *51*(2):69-75; doi:10.1016/S0045-6535(02)00819-6.

Kovalova L, McArdell CS, and Hollender J. "Challenge of high polarity and low concentrations in analysis of cytostatics and metabolites in wastewater by hydrophilic interaction chromatography/tandem mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(7):1100-1108; doi:10.1016/j.chroma.2008.12.028.

Kowalik CL. "Investigation into endocrine disruptors at the city of Oklahoma City's selected wastewater treatment plants." Master Dissertation, Oklahoma State University, Tulsa, Oklahoma, 2008. 284 pp.

Kowalski C, Zan R, and Rolinski Z. "Pleuromutilin derivatives and their usage in veterinary treatment." *Medycyna Weterynaryjna* **2004**, *60*(1):22-26.

Koyuncu I, Arikan OA, Wiesner MR, and Rice C. "Removal of hormones and antibiotics by nanofiltration membranes." *Journal of Membrane Science* **2008**, *309*(1-2):94-101; doi:10.1016/j.memsci.2007.10.010.

Kozak RG, D'Haese I, and Verstraete W. "Pharmaceuticals in the environment: Focus on 17α-ethinyloestradiol." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 1st ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2001, pp 49-65.

Koziar SA. "Chlorination of pharmaceuticals during water treatment." Masters Dissertation, Dalhousie University, Nova Scotia, Canada, 2007. 120 pp.

Kožuh Eržen N, Hodošček L, and Cerkvenik-Flajs V. "Analytical procedure for determination of the time profile of eprinomectin excretion in sheep faeces." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1329-1335; doi:10.1007/s00216-006-0903-6.

Kraemer T, Theis GA, Weber AA, and Maurer HH. "Studies on the metabolism and toxicological detection of the amphetamine-like anorectic fenproporex in human urine by gas chromatography-mass spectrometry and fluorescence polarization immunoassay." *Journal of Chromatography B: Biomedical Sciences and Applications* **2000**, *738*(1):107-118; doi:10.1016/S0378-4347(99)00497-1.

Kraemer T, Vernaleken I, and Maurer HH. "Studies on the metabolism and toxicological detection of the amphetamine-like anorectic mefenorex in human urine by gas chromatography-mass spectrometry and fluorescence polarization immunoassay." *Journal of Chromatography B: Biomedical Sciences and Applications* **1997**, *702*(1-2):93-102; doi:10.1016/S0378-4347(97)00357-5.

Kraigher B, Kosjek T, Heath E, Kompare B, and Mandic-Mulec I. "Influence of pharmaceutical residues on the structure of activated sludge bacterial communities in wastewater treatment bioreactors." *Water Research* **2008**, *42*(16):4578-4588; doi:10.1016/j.watres.2008.08.006.

Krajick K. "Keeping the Bugs at Bay." *Science* **2006**, *313*(5783):36-38; doi:10.1126/science.313.5783.36.

Kramer AM. "Do Medications Really Expire?" *Medscape General Medicine* **2003**, *5*(3).

Krämer P, Martens D, Forster S, Ipolyi I, Brunori C, and Morabito R. "How can immunochemical methods contribute to the implementation of the Water Framework Directive?" *Analytical and Bioanalytical Chemistry* **2007**, *387*:1435-1448; doi:10.1007/s00216-006-0793-7.

Krammer PH. "CD95's deadly mission in the immune system." *Nature* **2000**, *407*:789-795; doi:10.1038/35037728.

Krang A-S and Dahlstrom M. "Effects of a candidate antifouling compound (medetomidine) on pheromone induced mate search in the amphipod Corophium volutator." *Marine Pollution Bulletin* **2006**, *52*(12):1776-1783; doi:10.1016/j.marpolbul.2006.09.015.

Krasko A, Kurelec B, Batel R, Muller IM, and Muller WEG. "Potential multidrug resistance gene POHL: An ecologically relevant indicator in marine sponges." *Environmental Toxicology and Chemistry* **2001**, *20*(1):198-204.

Krasznekewicz A, "Water disrupts frogs' development." *Yale Daily News*, 23 September, 2009, 1 pp; http://www.yaledailynews.com/news/scitech-news/2009/09/23/water-disrupts-frogs-development/.

Kratz W. "Ecotoxicological Risk of Human Pharmaceuticals in Brandenburg Surface Waters?" in *Standards and Thresholds for Impact Assessment*, Schmidt M, Glasson J, Emmelin L and Helbron H, Eds., Springer; 2008, Chapter 30, pp 379-389; doi:10.1007/978-3-540-31141-610.1007/978-3-540-31141-6_30; http://dx.doi.org/10.1007/978-3-540-31141-6_30.

Krause H, Schuhmacher J, Scholl S, Schweiger B, and Steinfeld U. "Reply to discussion by Reinhard Länge et al. on "Degradation of the endocrine disrupting chemicals (EDCs) carbamazepine, clofibric acid, and iopromide by corona discharge over water" [Chemosphere 75(2) (2009) 163-168]." *Chemosphere* **2009**, *In Press*; doi:10.1016/j.chemosphere.2009.10.053.

Krause H, Schweiger B, Schuhmacher J, Scholl S, and Steinfeld U. "Degradation of the endocrine disrupting chemicals (EDCs) carbamazepine, clofibric acid, and iopromide by corona discharge over water." *Chemosphere* **2009**, *75*(2):163-168; doi:10.1016/j.chemosphere.2008.12.020.

Krause S, Niedan V, and Schöler HF. "N-(phenylsulfonyl)-glycine - a new contaminant in sewage- and surface water." *Chemosphere* **1998**, *37*(3):421-429.

Kreisberg J. "There is medicine in these waters." *The Journal of Ecologically Sustainable Medicine* **2006**, *Spring/Summer*:5-13.

Kreisberg J. "Pharmaceutical Pollution: Ecology and Toxicology." *The Journal of Ecologically Sustainable Medicine* **2007**, *Spring/Summer*:5-13.

Kreisberg J. "Proper medicine disposal protects the environment." *Integrative Medicine* **2007**, *6*(4):50-52.

Kreisberg J. "Call to Action: Drugs in Our Water." *Integrative Medicine* **2008/2009**, *7*(6):58-59.

Krejsa CM, Horvath D, Rogalski SL, Penzotti JE, Mao B, Barbosa F*, et al.* "Predicting ADME properties and side effects: The BioPrint approach." *Current Opinion in Drug Discovery & Development* **2003**, *6*(4):470-480.

Kreke N and Dietrich DR. "Physiological Endpoints for Potential SSRI Interactions in Fish." *Critical Reviews in Toxicology* **2008**, *38*(3):215 - 247; doi:10.1080/10408440801891057.

Kremnitz HW. "Process for the treatment of unwanted toxic, hazardous and infectious leftovers in solid, liquid, gas and radiation form, with different toxic, hazardous and bio-hazardous levels and classifications, generated by various clinics, hospitals and pharmaceutical-biochemical, chemical and to its related industries." 20070060783, 2007, http://www.freepatentsonline.com/y2007/0060783.html.

Kretschmer XC and Baldwin WS. "CAR and PXR: Xenosensors of endocrine disrupters." *Chemico-Biological Interactions* **2005**, *155*(3):111-128; doi:10.1016/j.cbi.2005.06.003.

Kreuzig R, Blümlein K, and Höltge S. "Fate of the Benzimidazole Antiparasitics Flubendazole and Fenbendazole in Manure and Manured Soils." *CLEAN - Soil, Air, Water* **2007**, *35*(5):488-494; doi:10.1002/clen.200720023.

Kreuzig R and Höltge S. "Investigations on the fate of sulfadiazine in manured soil: laboratory experiments and test plot studies." *Environmental Toxicology and Chemistry* **2005**, *24*(4):771-776; doi:10.1897/03-582R.1.

Kreuzig R, Höltge S, Brunotte J, Berenzen N, Wogram J, and Schulz R. "Test-plot studies on runoff of sulfonamides from manured soils after sprinkler irrigation." *Environmental Toxicology and Chemistry* **2005**, *24*(4):777-781; doi:10.1897/04-019R.1.

Kreuzig R, Kullmer C, Matthies B, Holtge S, and Dieckmann H. "Fate and behaviour of pharmaceutical residues in soils." *Fresenius Environmental Bulletin* **2003**, *12*(6):550-558.

Kreuzinger N, Clara M, Strenn B, and Kroiss H. "Relevance of the sludge retention time (SRT) as design criteria for wastewater treatment plants for the removal of endocrine disruptors and pharmaceuticals from wastewater." *Water Science and Technology* **2004**, *50*(5):149-156.

Kreuzinger N, Clara M, Strenn B, and Vogel B. "Investigation on the behaviour of selected pharmaceuticals in the groundwater after infiltration of treated wastewater." *Water Science and Technology* **2004**, *50*(2):221-228.

Krieger H, Frishkorn G, Martin E, and Jacobs B. "Evaluation of Methodology for Quantifying Radiopharmaceuticals in Tertiary-Treated Sewage." January, 1980, 9 pp; http://www.astm.org/DIGITAL_LIBRARY/STP/PAGES/STP35090S.htm.

Krigsman K, Melander A, Carlsten A, Ekedahl A, and Nilsson JLG. "Refill non-adherence to repeat prescriptions leads to treatment gaps or to high extra costs." *Pharmacy World and Science* **2007**, *29*(1):19-24; doi:10.1007/s11096-005-4797-8.

Krishnan K and Carrier R. "Approaches for Evaluating the Relevance of Multiroute Exposures in Establishing Guideline Values for Drinking Water Contaminants." *Journal of Environmental Science and Health, Part C* **2008**, *26*(3):300-316.

Krishnan K, Paterson J, and Williams DT. "Health Risk Assessment of Drinking Water Contaminants in Canada: The Applicability of Mixture Risk Assessment Methods." *Regulatory Toxicology and Pharmacology* **1997**, *26*(2):179-187; doi:10.1006/rtph.1997.1151.

Kristensen T, Baatrup E, and Bayley M. "17α-ethinylestradiol reduces the competitive reproductive fitness of the male guppy (Poecilia reticulata)." *Biology of Reproduction* **2005**, *72*(1):150-156.

Kristiansen JE and Amaral L. "The potential management of resistant infections with non-antibiotics." *Journal of Antimicrobial Chemotherapy* **1997**, *40*(3):319-327; doi:10.1093/jac/40.3.319.

Kristof ND. "Pathogens in our pork." The New York Times, 2009, 14 March http://www.nytimes.com/2009/03/15/opinion/15kristof.html?_r=1&th&emc=th.

Krogh KA, Björklund E, Loeffler D, Fink G, Halling-Sørensen B, and Ternes TA. "Development of an analytical method to determine avermectins in water, sediments and soils using liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2008**, *1211*(1-2):60-69; doi:10.1016/j.chroma.2008.09.081.

Krogh KA, Soeborg T, Brodin B, and Halling-Sorensen B. "Sorption and Mobility of Ivermectin in Different Soils." *Journal of Environmental Quality* **2008**, *37*(6):2202-2211; doi:10.2134/jeq2007.0592.

Kronberg L. "L43 Pharmaceuticals in the environment--An environmental hazard?" *European Journal of Pharmaceutical Sciences* **2008**, *34*(1, Supplement 1):S24-S24; doi:10.1016/j.ejps.2008.02.058.

Kronimus A, Schwarzbauer J, Dsikowitzky L, Heim S, and Littke R. "Anthropogenic organic contaminants in sediments of the Lippe river, Germany." *Water Research* **2004**, *38*(16):3473-3484; doi:10.1016/j.watres.2004.04.054.

Krueger BW and Krueger KA. "Secondary Pentobarbital Poisoning of Wildlife: Pentobarbital-euthanized Carcasses are Poisonous to Scavenging Animals." US Fish and Wildlife Service, 2007. http://www.fws.gov/mountain-prairie/poison.pdf.

Krüger K and Scholtz CH. "Changes in the structure of dung insect communities after ivermectin usage in a grassland ecosystem. II. Impact of ivermectin under high-rainfall conditions." *Acta Oecologica* **1998**, *19*(5):439-451; doi:10.1016/S1146-609X(98)80049-0.

Kruopienė J and Dvarionienė J. "Pharmaceutical Pathways to the Environment in Lithuania." *Environmental Research, Engineering and Management* **2007**, *3*(41):33-39.

Kruszewska H, Chmielowiec U, Bednarek E, Witowska-Jarosz J, Dobrowolski JC, and Misicka A. "Spectroscopic identification of AZT derivative obtained from biotransformation of AZT by Stenotrophomonas maltophilia." *Journal of Molecular Structure* **2003**, *651-653*:645-650; doi:10.1016/S0022-2860(03)00118-2.

Krutzfeldt J, Rajewsky N, Braich R, Rajeev KG, Tuschl T, Manoharan M*, et al.* "Silencing of microRNAs in vivo with 'antagomirs'." *Nature* **2005**, *438*(7068):685-689; doi:10.1038/nature04303.

Kszos LA and Stewart AJ. "Review of lithium in the aquatic environment: Distribution in the united states, toxicity and case example of groundwater contamination." *Ecotoxicology and Environmental Safety* **2003**, *12*(5):439-447; doi:10.1023/A:1026112507664.

Kuch HM and Ballschmiter K. "Determination of endogenous and exogenous estrogens in effluents from sewage treatment plants at the ng/L-level." *Fresenius Journal of Analytical Chemistry* **2000**, *366*(4):392-395; doi:10.1007/s002160050080.

Kuch HM and Ballschmiter K. "Determination of Endocrine-Disrupting Phenolic Compounds and Estrogens in Surface and Drinking Water by HRGC-(NCI)-MS in the Picogram per Liter Range." *Environmental Science & Technology* **2001**, *35*(15):3201-3206; doi:10.1021/es010034m.

Kuchta SL. "Lincomycin and spectinomycin: persistence in liquid swine manure and their transport from manure-amended soil." Masters Dissertation, University of Saskatchewan, Saskatoon, Saskatchewan, Canada, 2008. 32 pp; http://64.233.167.104/search?q=cache:4QwRzTfKYvkJ:library2.usask.ca/theses/submitted/etd-02292008-125535/unrestricted/kuchta_feb2008.pdf+daughton+disposal&hl=en&ct=clnk&cd=137&gl=us.

Kuchta SL and Cessna AJ. "Fate of lincomycin in snowmelt runoff from manure-amended pasture." *Chemosphere* **2009**, *76*(4):439-446; doi:10.1016/j.chemosphere.2009.03.069.

Kuehn BM. "Traces of drugs found in drinking water: Health effects unknown, safer disposal urged." *The Journal of the American Medical Association* **2008**, *299*(17):2011-2013; doi:10.1001/jama.299.17.2011.

Kühler TC, Andersson M, Carlin G, Johnsson A, and Åkerblom L. "Do Biological Medicinal Products Pose a Risk to the Environment?: A Current View on Ecopharmacovigilance." *Drug Safety* **2009**, *32*(11):995-1000.

Kuhlmann J. "Alternative strategies in drug development: clinical pharmacological aspects." *International Journal of Clinical Pharmacology and Therapeutics* **1999**, *37*(12):575-583.

Kuhlmann J. "Methodenentwicklung und Bestimmung anthropogener organischer Kontaminanten, ihrer Transformationsprodukte und potentiell biogener Organohalogenverbindungen in der aquatischen Umwelt." Doctoral Dissertation, 2007. 342 pp;

http://www.sub.uni-hamburg.de/opus/volltexte/2008/3659/index.html.

Kuhn DM, George T, Chandra J, Mukherjee PK, and Ghannoum MA. "Antifungal susceptibility of Candida biofilms: Unique efficacy of amphotericin B lipid formulations and echinocandins." *Antimicrobial Agents and Chemotherapy* **2002**, *46*(6):1773-1780; doi:10.1128/AAC.46.6.1773-1780.2002.

Kuhne M, Ihnen D, Moller G, and Agthe O. "Stability of tetracycline in water and liquid manure." *Journal of Veterinary Medicine, Series A* **2000**, *47*(6):379-384; doi:10.1046/j.1439-0442.2000.00300.x.

Kuhne M and Mitzscherling AT. "[The entry of bound residues of tetracyclines in the food chain - a contribution to the hazard identification]." *Berliner und Munchener Tierarztliche Wochenschrift* **2004**, *117*(5-6):201-206.

Kujalova H, Sykora V, and Pitter P. "Estrogenic substances in water." *Chemicke Listy* **2007**, *101*(9):706-712.

Kuklenyik Z, Bryant XA, Needham LL, and Calafat AM. "SPE/SPME-GC/MS approach for measuring musk compounds in serum and breast milk." *Journal of Chromatography B* **2007**, *858*(1-2):177-183; doi:10.1016/j.jchromb.2007.08.027.

Kulik N, Trapido M, Goi A, Veressinina Y, and Munter R. "Combined chemical treatment of pharmaceutical effluents from medical ointment production." *Chemosphere* **2008**, *70*(8):1525-1531; doi:10.1016/j.chemosphere.2007.08.026.

Kulkarni GK, Nagabhushanam R, Amaldoss G, Jaiswal RG, and Fingerman M. "In vivo stimulation of ovarian development in the red swamp crayfish, Procambarus clarkii (Girard), by 5-hydroxytryptamine." *Invertebrate Reproduction & Development* **1992**, *21*(3):231-240.

Kullman SW. "Towards an Innovative DNA Array Technology Detection of Pharmaceuticals in Reclaimed Water." Water Environment Research Foundation, 2007, 80 pp; http://www.iwapublishing.com/template.cfm?name=isbn1843397374&type=new.

Kumagai T, Inoue T, Mihara Y, Ebina K, and Yokota K. "Influences of drugs on the oxygen uptake rate and biosorption of activated sludge." *Biological & Pharmaceutical Bulletin* **2006**, *29*(1):183-186.

Kumar A, Dhingra G, and Malik AK. "Determination of Norfloxacin and Enrofloxacin by Solid-Phase Microextraction/High-Performance Liquid Chromatography." *Journal of AOAC International* **2008**, *91*(6):1339-1343.

Kumar A, Malik AK, Tewary DK, and Singh B. "Gradient HPLC of antibiotics in urine, ground water, chicken muscle, hospital wastewater, and pharmaceutical samples using C-18 and RP-amide columns." *Journal of Separation Science* **2008**, *31*(2):294-300; doi:10.1002/jssc.200700373.

Kumar AK, Mohan SV, and Sarma PN. "Sorptive removal of endocrine-disruptive compound (estriol, E3) from aqueous phase by batch and column studies: Kinetic and mechanistic evaluation." *Journal of Hazardous Materials* **2008**, *164*(2-3):820-828; doi:10.1016/j.jhazmat.2008.08.075.

Kumar AS, Mody K, and Jha B. "Antibiotic sensitivity of exopolysaccharide producing marine bacteria." *National Academy of Science Letters - India* **2006**, *29*(11-12):423-428.

Kumar K, Gupta SC, Baidoo SK, Chander Y, and Rosen CJ. "Antibiotic uptake by plants from soil fertilized with animal manure." *Journal of Environmental Quality* **2005**, *34*(6):2082-2085; doi:10.2134/jeq2005.0026.

Kumar K, Gupta SC, Chander Y, and Singh AK. "Antibiotic use in agriculture and its impact on the terrestrial environment." *Advances in Agronomy* **2005**, *87*:1-54.

Kumar K, Thompson A, Singh AK, Chander Y, and Gupta SC. "Enzyme-linked immunosorbent assay for ultratrace determination of antibiotics in aqueous samples." *Journal of Environmental Quality* **2004**, *33*(1):250-256.

Kumar KS, Priya SM, Peck AA, and Sajwan KS. "Mass Loadings of Triclosan and Triclocarbon[sic] from Four Wastewater Treatment Plants to Three Rivers and Landfill in Savannah, Georgia, USA." *Archives of Environmental Contamination and Toxicology* **2009**, *In press*; doi:10.1007/s00244-009-9383-y.

Kumar V, Balomajumder C, and Roy P. "Disruption of LH induced testosterone biosynthesis in testicular Leydig cells by Triclosan: Probable mechanism of action." *Toxicology* **2008**, *250*(2-3):124-131; doi:10.1016/j.tox.2008.06.012.

Kumar V, Chakraborty A, Kural MR, and Roy P. "Alteration of testicular steroidogenesis and histopathology of reproductive system in male rats treated with triclosan." *Reproductive Toxicology* **2009**, *27*(2):177-185; doi:10.1016/j.reprotox.2008.12.002.

Kumar V, Chakraborty A, Viswanath G, and Roy P. "Androgenic endocrine disruptors in wastewater treatment plant effluents in India: Their influence on reproductive processes and systemic toxicity in male rats." *Toxicology and Applied Pharmacology* **2008**, *226*(1):60-73; doi:10.1016/j.taap.2007.08.023.

Kumar V, Nakada N, Yasojima M, Yamashita N, Johnson AC, and Tanaka H. "Rapid determination of free and conjugated estrogen in different water matrices by liquid chromatography-tandem mass spectrometry." *Chemosphere* **2009**, *77*(10):1440-1446; doi:10.1016/j.chemosphere.2009.08.052.

Kumari J and Sahoo PK. "Effects of cyclophosphamide on the immune system and disease resistance of Asian catfish Clarias batrachus." *Fish & Shellfish Immunology* **2005**, *19*(4):307-316; doi:10.1016/j.fsi.2005.01.008.

Kumfer B and Lehmann D. "Wet Air Oxidation of Difficult to Treat Pharmaceutical Waste Streams." *Water Practice* **2008**, *2*(2):1-11; doi:10.2175/193317708X293151.

Kümmerer K. "Cytotoxics in water. Comment to 'Trace enrichment, chromatographic separation and biodegradation of cytostatic compounds in surface water,' Fresenius' Journal Analytical Chemistry 361:185-191 (1998); by T. Kiffmeyer, H.-J. Gotze, M. Jursch and U. Luders." *Fresenius Journal of Analytical Chemistry* **1998**, *362*(4):428-429; doi:10.1007/s002160051101.

Kümmerer K. "Drugs, diagnostic agents and disinfectants in wastewater and water - a review." *Schriftenreihe des Vereins fur Wasser - Boden - und Lufthygiene* **2000**, *105*:59-71.

Kümmerer K. "Drugs in the environment: emission of drugs, diagnostic aids and disinfectants into wastewater by hospitals in relation to other sources - a review." *Chemosphere* **2001**, *45*(6-7):957-969; doi:10.1016/S0045-6535(01)00144-8.

Kümmerer K, Ed., "Pharmaceuticals in the environment - Sources, fate, effects and risks." 1st ed.; Springer-Verlag, Berlin, Germany, 2001, 265 pp; http://books.google.com/books?hl=en&lr=&id=A3GQsHZCmdsC&oi=fnd&pg=PA1&dq=%22K%C3%BCmmerer%22+%22Pharmaceuticals+In+The+Environment:+Sources,+Fate,+...%22+&ots=IrmcjcIPRr&sig=_DqYzi7AQn5YDgsH0UBi45HwajI.

Kümmerer K. "Arzneimittel, Diagnostika und Desinfektionsmittel in der Umwelt Beurteilung und Risikomanagement [Drug, Diagnostic and disinfectant in that Environment - evaluation and risk management]." *UWSF-Z Unweltchem Okotox* **2001**, *13*(269-276).

Kümmerer K. "Erratum to "Drugs in the environment: emission of drugs, diagnostic aids and disinfectants into wastewater by hospitals in relation to other sources--a review" [Chemosphere 45 (2001) 957-969]." *Chemosphere* **2002**, *48*(3):383; doi:10.1016/S0045-6535(02)00088-7.

Kümmerer K. "Significance of antibiotics in the environment." *Journal of Antimicrobial Chemotherapy* **2003**, *52*(1):5-7; doi:10.1093/jac/dkg293.

Kümmerer K. "Resistance in the environment." *Journal of Antimicrobial Chemotherapy* **2004**, *54*(2):311-320; doi:10.1093/jac/dkh325.

Kümmerer K. "Pharmaceuticals in the environment - scope of the book and introduction." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 1, pp 3-11; http://www.cplbookshop.com/contents/C772.htm.

Kümmerer K, Ed., "Pharmaceuticals in the environment - Sources, fate, effects, and risks." 2nd ed.; Springer, Berlin, Germany, 2004, 527 pp; http://www.cplbookshop.com/contents/C772.htm.

Kümmerer K. "Emissions from medical care units." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 3, pp 27-44.

Kümmerer K. "Conclusion." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 34, pp 499-504.

Kümmerer K. "Resistance in the environment." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 18, pp 223-231.

Kümmerer K. "Using (quantitative) structure-activity relationships in pharmaceutical risk assessment." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 28, pp 287-290.

Kümmerer K. "Sustainable from the very beginning: rational design of molecules by life cycle engineering as an important approach for green pharmacy and green chemistry." *Green Chemistry* **2007**, *9*(8):899-907; doi:10.1039/b618298b.

Kümmerer K, Ed., "Pharmaceuticals in the environment - Sources, fate, effects, and risks." 3rd ed.; Springer, Berlin, Germany, 2008, 522 pp; http://www.springer.com/environment/environmental+toxicology/book/978-3-540-74663-8.

Kümmerer K. "Pharmaceuticals in the Environment – A Brief Summary." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 1, pp 3-21; http://www.springerlink.com/content/h422333230q11q76/?p=94dabc37b8134cc891c469713663431b&pi=0.

Kümmerer K. "Antibiotics in the Environment." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 6, pp 75-93; doi:10.1007/978-3-540-74664-5_6; http://www.springerlink.com/content/q73843648441836q/?p=b8628eceed074a9db6910f36720e7105&pi=1.

Kümmerer K. "Effects of Antibiotics and Virustatics in the Environment." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 14, pp 223-244; doi:10.1007/978-3-540-74664-5_14; http://www.springerlink.com/content/p8n46187n4115080/?p=97dfb90332264725bf4ef8a85570afc6&pi=13.

Kümmerer K. "Strategies for Reducing the Input of Pharmaceuticals into the Environment." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 25, pp 411-418; doi:10.1007/978-3-540-74664-5_25; http://www.springerlink.com/content/g3322605n5225133/.

Kümmerer K. "Nachhaltige Chemie von Anfang an: Nachhaltige Chemikalien [Lasting chemistry from the outset: Lasting chemicals]." 2008, 5 pp; http://www.aktuelle-wochenschau.de/woche15/woche15.html.

Kümmerer K. "Antibiotics in the aquatic environment - A review - Part II." *Chemosphere* **2009**, *75*(4):435-441; doi:10.1016/j.chemosphere.2008.12.006.

Kümmerer K. "The presence of pharmaceuticals in the environment due to human use - present knowledge and future challenges." *Journal of Environmental Management* **2009**, *90*(8):2354-2366; doi:10.1016/j.jenvman.2009.01.023.

Kümmerer K. "Antibiotics in the aquatic environment - A review - Part I." *Chemosphere* **2009**, *75*(4):417-434; doi:10.1016/j.chemosphere.2008.11.086.

Kümmerer K. "Effluent management in hospitals." University Freiburg Hospital Institute of Environmental Medicine and Hospital Epidemiology, 2009; http://w3.ufsm.br/isrmu/conferencias/Klaus_Kummerer.pdf.

Kümmerer K. "Pharmaceuticals in the Environment: Knowing and Managing the Risks." in *A Healthy Future- Pharmaceuticals in a Sustainable Society*, collaborative publication of Apoteket AB, MistraPharma, and Stockholm County Council; Sweden, 2009, Chapter 7, pp 124-147; http://www.epa.gov/nerlesd1/bios/daughton/Pharmaceuticals-Sustainability-2009.pdf.

Kümmerer K and Al-Ahmad A. "Biodegradability of the anti-tumour agents 5-fluorouracil, cytarabine, and gemcitabine: Impact of the chemical structure and synergistic toxicity with hospital effluent." *Acta Hydrochimica et Hydrobiologica* **1997**, *25*(4):166-172; doi:10.1002/aheh.19970250402.

Kümmerer K and Al-Ahmad A. "Pharmaceuticals in the aquatic environment: input, elimination and possible effects in sewage treatment plants and surface water. Water, Sanitation and Health: Resolving conflicts between drinking-water demands and pressures from society's wastes." in International Conference, WHO Collaborating Centre for Drinking-Water Research., Bad Elster, 24-28 November, 1998.

Kümmerer K and Al-Ahmad A. "The cancer risk for humans related to cyclophosphamide and ifosfamide excretions emitted into surface water via hospital effluents." in International Symposium on predictive oncology and therapy, Nice, Italy, 24-27 October, 1998.

Kümmerer K and Al-Ahmad A. "The cancer risk for humans related to cyclophosphamide and ifosfamide excretions emitted into surface water via hospital effluents." *Cancer Detection and Prevention* **1998**, *22*(Supp 1):136.

Kümmerer K and Al-Ahmad A. "Estimation of the cancer, risk to humans from cyclophoshamide and ifosfamide excreta emitted into surface water via hospital effluents." *Environmental Science and Pollution Research* **2009**, *In press*.

Kümmerer K, Al-Ahmad A, Bertram B, and Wieler M. "Biodegradability of antineoplastic compounds in screening tests: influence of

glucosidation and of stereochemistry." *Chemosphere* **2000**, *40*(7):767-773; doi:10.1016/S0045-6535(99)00451-8.

Kümmerer K, Al-Ahmad A, and Henninger A. "Use of Chemotaxonomy To Study the Influence of Benzalkonium Chloride on Bacterial Populations in Biodegradation Testing." *Acta Hydrochimica et Hydrobiologica* **2002**, *30*(4):171-178; doi:10.1002/aheh.200390000.

Kümmerer K, Al-Ahmad A, and Mersch-Sundermann V. "Biodegradability of some antibiotics, elimination of the genotoxicity and affection of wastewater bacteria in a simple test." *Chemosphere* **2000**, *40*(7):701-710; doi:10.1016/S0045-6535(99)00439-7.

Kümmerer K, Alexy R, Hüttig J, and Schöll A. "Standardized tests fail to assess the effects of antibiotics on environmental bacteria." *Water Research* **2004**, *38*(8):2111-2116; doi:10.1016/j.watres.2004.02.004.

Kümmerer K and Cunningham VL. "Summary of workshop on fate of pharmaceuticals in the environment." *Drug Information Journal* **2007**, *41*(2):193-194.

Kümmerer K, Erbe T, Gartiser S, and Brinker L. "AOX - Emissions from hospitals into municipal waste water." *Chemosphere* **1998**, *36*(11):2437-2445.

Kümmerer K, Ericson J, Hannah B, Johnson A, Sedlak DL, and Weston JJ. "Environmental fate and transport of human pharmaceuticals." in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Willams RT, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 4, pp 111-148.

Kümmerer K and Helmers E. "Hospital effluents as a source for platinum in the environment." *Science of the Total Environment* **1997**, *193*(3):179-184; doi:10.1016/S0048-9697(96)05331-4.

Kümmerer K and Helmers E. "Hospital effluents as a source of gadolinium in the aquatic environment." *Environmental Science & Technology* **2000**, *34*(4):573-577; doi:10.1021/es990633h.

Kümmerer K, Helmers E, Hubner P, Mascart G, Milandri M, Reinthaler F*, et al.* "European hospitals as a source for platinum in the environment in comparison with other sources." *Science of the Total Environment* **1999**, *225*(1-2):155-165; doi:10.1016/S0048-9697(98)00341-6.

Kümmerer K and Henninger A. "Promoting resistance by the emission of antibiotics from hospitals and households into effluent." *Clinical Microbiology and Infection* **2003**, *9*(12):1203-1214; doi:10.1111/j.1469-0691.2003.00739.x.

Kümmerer K, Keil F, Hempel M, and Schaefer H-C. "Sustainable pharmacy 23-24 April, 2008 Osnabrück, Deutsche Bundesstiftung Umwelt." *Umweltwiss Schadst Forsch* **2009**, *21*:115-117; doi:10.1007/s12302-008-0029-x.

Kümmerer K and Schramm E. "Arzneimittelentwicklung: Die Reduzierung von Gewässerbelastungen durch gezieltes Moleküldesign [Drug development: The reduction of Waters loads by purposeful molecule Design]." *UWSF* **2008**, *20*(4):249-263.

Kümmerer K and Schuster A. "Substance Flows Associated with Medical Care – Significance of Different Sources." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 4, pp 43-59; doi:10.1007/978-3-540-74664-5_4; http://www.springerlink.com/content/mt1128r2106w10j0/?p=05a60926665f4776bbc653770bb24de6&pi=3.

Kümmerer K, Steger-Hartmann T, and Meyer M. "Biodegradability of the anti-tumour agent ifosfamide and its occurrence in hospital effluents and communal sewage." *Water Research* **1997**, *31*(11):2705-2710; doi:10.1016/S0043-1354(97)00121-8.

Kümmerer K and Velo G. "Ecopharmacology: A New Topic of Importance in Pharmacovigilance." *Drug Safety* **2006**, *29*(5):371-373.

Kunalan V, Niéid N, Kerr WJ, Buchanan HAS, and McPherson AR. "Characterization of Route Specific Impurities Found in Methamphetamine Synthesized by the Leuckart and Reductive Amination Methods." *Analytical Chemistry* **2009**, *81*(17):7342-7348; doi:10.1021/ac9005588.

Kunik BJ. 2009, "Proper Disposal of Unused Pharmaceuticals: An Effective Health Care Weapon." HealthNewsDigest.com, 2 pp; http://www.healthnewsdigest.com/news/Guest_Columnist_710/Proper_Disposal_of_Unused_Pharmaceuticals_An_Effective_Health_Care_Weapon.shtml.

Kunkel U and Radke M. "Biodegradation of Acidic Pharmaceuticals in Bed Sediments: Insight from a Laboratory Experiment." *Environmental Science & Technology* **2008**, *42*(19):7273-7279; doi:10.1021/es801562j.

Künnemeyer J, Terborg L, Meermann B, Brauckmann C, Möller I, Scheffer A*, et al.* "Speciation Analysis of Gadolinium Chelates in Hospital Effluents and Wastewater Treatment Plant Sewage by a Novel HILIC/ICP-MS Method." *Environmental Science & Technology* **2009**, *43*(8):2884-2890; doi:10.1021/es803278n.

Kűnnemeyer J, Terborg L, Meermann B, Brauckmann C, Mőller I, Scheffer A*, et al.* "Response to Comment on “Speciation Analysis of Gadolinium Chelates in Hospital Effluents and Wastewater Treatment Plant Sewage by a Novel HILIC/ICP-MS Method”." *Environmental Science & Technology* **2009**, *43*(14):5549-5550; doi:10.1021/es901550c.

Kunz GJ, Klein KO, Clemons RD, Gottschalk ME, and Jones KL. "Virilization of young children after topical androgen use by their parents." *Pediatrics* **2004**, *114*(1):282-284.

Kunz PY and Fent K. "Estrogenic activity of UV filter mixtures." *Toxicology and Applied Pharmacology* **2006**, *217*(1):86-99; doi:10.1016/j.taap.2006.07.014.

Kunz PY and Fent K. "Multiple hormonal activities of UV filters and comparison of in vivo and in vitro estrogenic activity of ethyl-4-aminobenzoate in fish." *Aquatic Toxicology* **2006**, *79*(4):305-324; doi:10.1016/j.aquatox.2006.06.016.

Kunz PY and Fent K. "Estrogenic activity of ternary UV filter mixtures in fish (Pimephales promelas) - An analysis with nonlinear isobolograms." *Toxicology and Applied Pharmacology* **2009**, *234*(1):77-88; doi:10.1016/j.taap.2008.09.032.

Kunz PY, Galicia HF, and Fent K. "Assessment of hormonal activity of UV filters in tadpoles of frog Xenopus laevus at environmental concentrations." *Marine Environmental Research* **2004**, *58*(2-5):431-435; doi:10.1016/j.marenvres.2004.03.027.

Kunz PY, Galicia HF, and Fent K. "Comparison of in vitro and in vivo estrogenic activity of UV filters in fish." *Toxicological Sciences* **2006**, *90*(2):349-361; doi:10.1093/toxsci/kfj082.

Kunz PY, Gries T, and Fent K. "The ultraviolet filter 3-benzylidene camphor adversely affects reproduction in fathead minnow (Pimephales promelas)." *Toxicological Sciences* **2006**, *93*(2):311-321; doi:10.1093/toxsci/kfl070.

Kuo S-C, Chuang S-K, Lin H-Y, and Wang L-H. "Study of the aerosol fragrances of eugenol derivatives in Cananga odorata using diffuse reflectance infrared Fourier transform spectroscopy and gas chromatography." *Analytica Chimica Acta* **2009**, *653*(1):91-96; doi:10.1016/j.aca.2009.08.034.

Kupper T. "Sunscreen filters through the environment." *Environmental Science & Technology* **2005**, *39*(18):377A.

Kupper T. "Belastung und Quellen organischer Schadstoffe im Klärschlamm und ihre Bedeutung im Zusammenhang mit dem Ausstieg aus der landwirtschaftlichen Klärschlammverwertung in der Schweiz [Organic contaminants in sewage sludge, their sources and their importance in the context of the withdrawal from the agricultural use of sewage sludge in Switzerland]." *Österreichische Wasser- und Abfallwirtschaft* **2008**, *60*(3-4):45-54; doi:10.1007/s00506-008-0151-4.

Kupper T, Berset JD, Etter-Holzer R, Furrer R, and Tarradellas J. "Concentrations and specific loads of polycyclic musks in sewage sludge originating from a monitoring network in Switzerland." *Chemosphere* **2004**, *54*(8):1111-1120; doi:10.1016/j.chemosphere.2003.09.023.

Kupper T, Plagellat C, Berset JD, Bonnet C, de Alencastro LF, Grandjean D*, et al.* "UV Filter, Biozide, synthetische Duftstoffe und polybromierte Flammschutzmittel im Klärschlamm - Belastung und Quellen." *Beiträge zu Abfallwirtschaft und Altlasten* **2005**, *38*:24-36.

Kupper T, Plagellat C, Brandli RC, de Alencastro LF, Grandjean D, and Tarradellas J. "Fate and removal of polycyclic musks, UV filters and biocides during wastewater treatment." *Water Research* **2006**, *40*(14):2603-2612; doi:10.1016/j.watres.2006.04.012.

Kurauchi K, Nakaguchi Y, Tsutsumi M, Hori H, Kurihara R, Hashimoto S*, et al.* "In vivo visual reporter system for detection of estrogen-like substances by transgenic medaka." *Environmental Science & Technology* **2005**, *39*(8):2762-2768; doi:10.1021/es0486465.

Kurelec B. "The multixenobiotic resistance mechanism in aquatic organisms." *Critical Reviews in Toxicology* **1992**, *22*(1):23-43.

Kurelec B. "The genotoxic disease syndrome." *Marine Environmental Research* **1993**, *35*:341-348.

Kurelec B. "A new type of hazardous chemical: the chemosensitizers of multixenobiotic resistance." *Environmental Health Perspectives* **1997**, *105*(Suppl 4):855-860.

Kurelec B, Britivic S, Pivcevic B, and Smital T. "Fragility of multixenobiotic resistance in aquatic organisms, enhances the complexity of risk assessment." *Marine Environmental Research* **1998**, *46*(1-5):415-419; doi:10.1016/S0141-1136(97)00065-2.

Kurelec B, Pivcevic B, and Müller WEG. "Determination of pollutants with multixenobiotic-resistance inhibiting properties." *Marine Environmental Research* **1995**, *39*(1-4):261-265; doi:10.1016/0141-1136(94)00050-Y.

Kuroiwa KK. "The behavioral effects of exposure to the endocrine disrupting chemical, ethinyl estradiol, on the fourspine stickleback (Apeltes quadracus)." Doctoral Dissertation, City University of New York, New York, NY, 2009. 125 pp.

Kuruto-Niwa R, Ito T, Goto H, Nakamura H, Nozawa R, and Terao Y. "Estrogenic activity of the chlorinated derivatives of estrogens and flavonoids using a GFP expression system." *Environmental Toxicology and Pharmacology* **2007**, *23*(1):121-128; doi:10.1016/j.etap.2006.07.011.

Kurwadkar ST, Adams CD, Meyer MT, and Kolpin DW. "Effects of sorbate speciation on sorption of selected sulfonamides in three loamy soils." *Journal of Agricultural and Food Chemistry* **2007**, *55*(4):1370-1376; doi:10.1021/jf060612o.

Kusari S, Prabhakaran D, Lamshöft M, and Spiteller M. "In vitro residual anti-bacterial activity of difloxacin, sarafloxacin and their photoproducts after photolysis in water." *Environmental Pollution* **2009**, *157*(10):2722-2730; doi:10.1016/j.envpol.2009.04.033.

Kusayama T and Watanabe S. "Reinforcing effects of methamphetamine in planarians." *Motor Systems* **2000**, *11*(11):2511-2513.

Kushner DJ, Baker A, and Dunstall TG. "Pharmacological uses and perspectives of heavy water and deuterated compounds." *Canadian Journal of Physiology and Pharmacology* **1999**, *77*(2):79-88.

Kusk K and Wollenberger L. "Towards an internationally harmonized test method for reproductive and developmental effects of endocrine disrupters in marine copepods." *Ecotoxicology* **2007**, *16*(1):183-195; doi:10.1007/s10646-006-0112-2.

Kuspis DA and Krenzelok EP. "What happens to expired medications? A survey of community medication disposal." *Veterinary and Human Toxicology* **1996**, *38*(1):48-49.

Küster A, Alder AC, Escher B, Duis K, Fenner K, Garric J*, et al.* "Environmental Risk Assessment of Human Pharmaceuticals in the European Union - A Case Study with the β-blocker Atenolol." *Integrated Environmental Assessment and Management* **2009**, *In press*; doi:10.1897/IEAM_2009-050.1.

Küster A, Bachmann J, Brandt U, Ebert I, Hickmann S, Klein-Goedicke J*, et al.* "Regulatory demands on data quality for the environmental risk assessment of pharmaceuticals." *Regulatory Toxicology and Pharmacology* **2009**, *55*(3):276-280; doi:10.1016/j.yrtph.2009.07.005.

Küster A, Hickmann S, and Rechenberg B. "The CHMP guideline on environmental risk assessment of medicinal products for human use: Three years of regulatory experience." *Toxicology Letters* **2009**, *189*(Supplement 1):S33-S34; doi:10.1016/j.toxlet.2009.06.067.

Kuster A, Pohl K, and Altenburger R. "A fluorescence-based bioassay for aquatic macrophytes and its suitability for effect analysis of non-photosystem II inhibitors." *Environmental Science and Pollution Research* **2007**, *14*(6):377-383; doi:10.1065/espr2007.04.410.

Kuster M, Azevedo DA, López de Alda MJ, Aquino Neto FR, and Barceló D. "Analysis of phytoestrogens, progestogens and estrogens in environmental waters from Rio de Janeiro (Brazil)." *Environment International* **2009**, *35*(7):997-1003; doi:10.1016/j.envint.2009.04.006.

Kuster M, Jose Lopez de Alda M, and Barcelo D. "Analysis and distribution of estrogens and progestogens in sewage sludge, soils and sediments." *Trends in Analytical Chemistry* **2004**, *23*(10-11):790-798; doi:10.1016/j.trac.2004.08.007.

Kuster M, López de Alda MJ, and Barceló D. "Estrogens and Progestogens in Wastewater, Sludge, Sediments, and Soil." *The Handbook of Environmental Chemistry* **2005**, *5, Part O*:1-24; doi:10.1007/b98605.

Kuster M, López de Alda MJ, Hernando MD, Petrovic M, Martín-Alonso J, and Barceló D. "Analysis and occurrence of pharmaceuticals, estrogens, progestogens and polar pesticides in sewage treatment plant effluents, river water and drinking water in the Llobregat river basin (Barcelona, Spain)." *Journal of Hydrology* **2008**, *358*(1-2):112-123; doi:10.1016/j.jhydrol.2008.05.030.

Kuster M, Lopez de Alda MJ, Rodriguez-Mozaz S, and Barceló D. "Analysis of Pharmaceuticals as Environmental Contaminants - Analysis of steroid estrogens in the environment." in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science; 2007, Chapter 2.6, pp 219-264; http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Kutulus B. "Enrichment and determination of drug traces in water using liquid membrane systems and HPLC-MS." Der Fakultät für Naturwissenschaften Depaetment Chemie der Universität Paderborn, 2005.

Kvanli DM, Marisetty S, Anderson TA, Jackson WA, and Morse AN. "Monitoring Estrogen Compounds in Wastewater Recycling Systems." *Water, Air, & Soil Pollution* **2008**, *188*(1-4):31-40; doi:10.1007/s11270-007-9498-6.

Kviderova J and Henley WJ. "The effect of ampicillin plus streptomycin on growth and photosynthesis of two halotolerant chlorophyte algae." *Journal of Applied Phycology* **2005**, *17*(4):301-307.

Kwadijk S and Torano JS. "High-performance liquid chromatographic method with ultraviolet detection for the determination of dapsone and its hydroxylated metabolite in human plasma." *Biomedical Chromatography* **2002**, *16*(203-208); doi:10.1002/bmc.132.

Kwon JW and Armbrust KL. "Photo-isomerization of fluvoxamine in aqueous solutions." *Journal of Pharmaceutical and Biomedical Analysis* **2005**, *37*(4):643-648; doi:10.1016/j.jpba.2004.09.057.

Kwon JW and Armbrust KL. "Degradation of citalopram by simulated sunlight." *Environmental Toxicology and Chemistry* **2005**, *24*(7):1618-1623; doi:10.1897/04-522R.1.

Kwon J-W and Armbrust K. "Aqueous Solubility, n -Octanol–Water Partition Coefficient, and Sorption of Five Selective Serotonin Reuptake Inhibitors to Sediments and Soils." *Bulletin of Environmental Contamination and Toxicology* **2008**, *81*(2):128-135; doi:10.1007/s00128-008-9401-1.

Kwon J-W and Armbrust KL. "Hydrolysis and photolysis of paroxetine, a selective serotonin reuptake inhibitor, in aqueous solutions." *Environmental Toxicology and Chemistry* **2004**, *23*(6):1394-1399; doi:10.1897/03-319.

Kwon J-W and Armbrust KL. "Laboratory persistence and fate of fluoxetine in aquatic environments." *Environmental Toxicology and Chemistry* **2006**, *25*(10):2561-2568; doi:10.1897/05-613R.1.

Kwon J-W, Armbrust KL, Vidal-Dorsch D, Bay SM, and Xia K. "Determination of 17α-Ethynylestradiol, Carbamazepine, Diazepam, Simvastatin, and Oxybenzone in Fish Livers." *Journal of AOAC International* **2009**, *92*(1):359-369.

La Clair JJ, Bantle JA, and J. D. "Photoproducts and metabolites of a common insect growth regulator produce developmental deformities in Xenopus." *Environmental Science & Technology* **1998**, *32*(10):1453-1461; doi:10.1021/es971024h.

La Guardia MJ, Hale RC, Harvey E, Bush EO, Mainor TM, and Gaylor MO. "Organic contaminants of emerging concern in land-applied sewage sludge (biosolids)." *Journal of Residuals Science & Technology* **2004**, *1*(2):111-122.

Laane RWPM, de Voogt P, and Bik MH. "Assessment of Organic Compounds in the Rhine Estuary." *The Handbook of Environmental Chemistry* **2006**, *5, Part L*:307-368; doi:10.1007/698_5_031.

Labadie P and Budzinski H. "Determination of steroidal hormone profiles along the Jalle d'Eysines River (near Bordeaux, France)." *Environmental Science & Technology* **2005**, *39*(14):5113-5120; doi:10.1021/es048443g.

Labadie P and Budzinski H. "Development of an analytical procedure for determination of selected estrogens and progestagens in water samples." *Analytical and Bioanalytical Chemistry* **2005**, *381*(6):1199-1205; doi:10.1007/s00216-005-3055-1.

Labadie P and Budzinski H. "Alteration of steroid hormone profile in juvenile turbot (Psetta maxima) as a consequence of short-term exposure to 17α-ethynylestradiol." *Chemosphere* **2006**, *64*(8):1274-1286; doi:10.1016/j.chemosphere.2005.12.065.

Labadie P, Cundy AB, Stone K, Andrews M, Valbonesi S, and Hill EM. "Evidence for the migration of steroidal estrogens through river bed sediments." *Environmental Science & Technology* **2007**, *41*(12):4299-4304; doi:10.1021/es063062j.

Labadie P and Hill EM. "Analysis of estrogens in river sediments by liquid chromatography-electrospray ionisation mass spectrometry: Comparison of tandem mass spectrometry and time-of-flight mass spectrometry." *Journal of Chromatography A* **2007**, *1141*(2):174-181; doi:10.1016/j.chroma.2006.12.045.

Labare MP and Alexander M. "Biodegradation of sucralose, a chlorinated carbohydrate in samples of natural environments." *Environmental Toxicology and Chemistry* **1993**, *12*(5):797-804; doi:10.1897/1552-8618(1993)12[797:BOSACC]2.0.CO;2.

Labare MP and Alexander M. "Microbial cometabolism of sucralose, a chlorinated disaccharide, in environmental samples." *Applied Microbiology and Biotechnology* **1994**, *42*(1):173-178; doi:10.1007/BF00170242.

Labare MP and Alexander M. "Microbial cometabolism of sucralose, a chlorinated disaccharide, in environmental samples." *Applied Microbiology and Biotechnology* **1995**, *43*(1):194-194; doi:10.1007/BF00170643.

Lacey C, McMahon G, Bones J, Barron L, Morrissey A, and Tobin JM. "An LC-MS method for the determination of pharmaceutical compounds in wastewater treatment plant influent and effluent samples." *Talanta* **2008**, *75*(4):1089-1097; doi:10.1016/j.talanta.2008.01.011.

Lacey CA. "Assessment of pharmaceutical residue levels in three Irish sewage treatment plants." Doctoral Dissertation, Dublin, Ireland, 2009. http://doras.dcu.ie/2233/.

Lachmayr K. "Presence of Antibiotic Resistance Genes in Wastewater Discharged to Boston Harbor: Implications for Antibiotic Resistance in a Marine Environment." Doctoral Dissertation, Harvard, Department of Environmental Health, Cambridge, MA, 2007.

Ladewig V, Jungmann D, Köhler HR, Schirling M, Triebskorn R, and Nagel R. "Population structure and dynamics of Gammarus fossarum (Amphipoda) upstream and downstream from effluents of sewage treatment plants." *Archives of Environmental Contamination and Toxicology* **2006**, *50*(3):370-383; doi:10.1007/s00244-005-7039-0.

Laegdsmand M, Andersen H, Jacobsen OH, and Halling-Sorensen B. "Transport and Fate of Estrogenic Hormones in Slurry-treated Soil Monoliths." *Journal of Environmental Quality* **2009**, *38*(3):955-964; doi:10.2134/jeq2007.0569.

Laenge R, Steger-Hartmann T, and Schweinfurth H. "The environmental risk assessment of human pharmaceuticals in the overall EU regulatory affairs process." *Regulatory Toxicology and Pharmacology* **2006**, *45*(3):223-228; doi:10.1016/j.yrtph.2006.04.001.

Laetz CA, Baldwin DH, Collier TK, Hebert V, Stark JD, and Scholz NL. "The Synergistic Toxicity of Pesticide Mixtures: Implications for Risk Assessment and the Conservation of Endangered Pacific Salmon." *Environmental Health Perspectives* **2009**, *117*(3):348-353; doi:10.1289/ehp.0800096.

Lagadic L and Caquet T. "Invertebrates in testing of environmental chemicals: are they alternatives?" *Environmental Health Perspectives* **1998**, *106*(S2):593-611.

Lagadic L, Coutellec M-A, and Caquet T. "Endocrine disruption in aquatic pulmonate molluscs: few evidences, many challenges." *Ecotoxicology* **2007**, *16*(1):45-59; doi:10.1007/s10646-006-0114-0.

Lagana A, Bacaloni A, De Leva I, Faberi A, Fago G, and Marino A. "Analytical methodologies for determining the occurrence of endocrine disrupting chemicals in sewage treatment plants and natural waters." *Analytica Chimica Acta* **2004**, *501*(1):79-88; doi:10.1016/j.aca.2003.09.020.

Lagana A, Bacaloni A, Fago G, and Marino A. "Trace analysis of estrogenic chemicals in sewage effluent using liquid chromatography combined with tandem mass spectrometry." *Rapid Communications in Mass Spectrometry* **2000**, *14*(6):401-407; doi:10.1002/(SICI)1097-0231(20000331)14:6<401::AID-RCM883>3.0.CO;2-7.

Lagana A, Fago G, Marino A, and Santarelli D. "Liquid chromatography tandem mass spectrometry applied to the analysis of natural and synthetic steroids in environmental waters." *Analytical Letters* **2001**, *34*(6):913-926; doi:10.1081/AL-100103602.

Lahav R, Fareleira P, Nejidat A, and Abeliovich A. "The identification and characterization of osmotolerant yeast isolates from chemical wastewater evaporation ponds." *Microbial Ecology* **2002**, *43*(3):388-396; doi:10.1007/s00248-002-2001-4.

Lai EPC and Feng SY. "Solid phase extraction - Non-aqueous capillary electrophoresis for determination of metformin, phenformin and glyburide in human plasma." *Journal of Chromatography B: Biomedical Sciences and Applications* **2006**, *843*(1):94-99; doi:10.1016/j.jchromb.2006.05.030.

Lai H-T, Chien Y-H, and Lin J-S. "Long-term transformation of oxolinic acid in water from an eel pond." *Aquaculture* **2008**, *275*(1-4):96-101; doi:10.1016/j.aquaculture.2008.01.017.

Lai H-T, Chien Y-H, and Liu S-M. "Transformation of Chloramphenicol and Oxytetracycline in Brackish Water Sediment under Various Salinities and Aerobic and Anaerobic Conditions." *Journal - Fisheries Society of Taiwan* **1997**, *24*(1):49-62.

Lai H-T and Hou J-H. "Light and Microbial Effects on the Transformation of Four Sulfonamides in Eel Pond Water and Sediment." *Aquaculture* **2008**, *283*(1-4):50-55; doi:10.1016/j.aquaculture.2008.07.001.

Lai H-T, Hou J-H, Su C-I, and Chen C-L. "Effects of chloramphenicol, florfenicol, and thiamphenicol on growth of algae Chlorella

pyrenoidosa, Isochrysis galbana, and Tetraselmis chui." *Ecotoxicology and Environmental Safety* **2009**, *72*(2):329-334; doi:10.1016/j.ecoenv.2008.03.005.

Lai H-T and Lin J-J. "Degradation of oxolinic acid and flumequine in aquaculture pond waters and sediments." *Chemosphere* **2009**, *75*(4):462-468; doi:10.1016/j.chemosphere.2008.12.060.

Lai H-T, Liu S-M, and Chien Y-H. "Transformation of chloramphenicol and oxytetracycline in aquaculture pond sediments." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances and Environmental Engineering* **1995**, *30*(9):1897-1923.

Lai KM, Johnson KL, Scrimshaw MD, and Lester JN. "Binding of waterborne steroid estrogens to solid phases in river and estuarine systems." *Environmental Science & Technology* **2000**, *34*(18):3890-3894; doi:10.1021/es9912729.

Lai KM, Scrimshaw MD, and Lester JN. "The Effects of Natural and Synthetic Steroid Estrogens in Relation to their Environmental Occurrence." *Critical Reviews in Toxicology* **2002**, *32*(2):113-132.

Lai KM, Scrimshaw MD, and Lester JN. "Prediction of the bioaccumulation factors and body burden of natural and synthetic estrogens in aquatic organisms in the river systems." *Science of the Total Environment* **2002**, *289*(1-3):159-168; doi:10.1016/S0048-9697(01)01036-1.

Lai KM, Scrimshaw MD, and Lester JN. "Biotransformation and Bioconcentration of Steroid Estrogens by Chlorella vulgaris." *Applied and Environmental Microbiology* **2002**, *68*(2):859-864; doi:10.1128/aem.68.2.859-864.2002.

Laird BD, Brain RA, Johnson DJ, Wilson CJ, Sanderson H, and Solomon KR. "Toxicity and hazard of a mixture of SSRIs to zooplankton communities evaluated in aquatic microcosms." *Chemosphere* **2007**, *69*(6):949-954; doi:10.1016/j.chemosphere.2007.05.020.

Lajeunesse A and Gagnon C. "Determination of acidic pharmaceutical products and carbamazepine in roughly primary-treated wastewater by solid-phase extraction and gas chromatography-tandem mass spectrometry." *International Journal of Environmental Analytical Chemistry* **2007**, *87*(8):565-578; doi:10.1080/03067310701189083.

Lajeunesse A, Gagnon C, and Sauve S. "Determination of Basic Antidepressants and Their N-Desmethyl Metabolites in Raw Sewage and Wastewater Using Solid-Phase Extraction and Liquid Chromatography-Tandem Mass Spectrometry." *Analytical Chemistry* **2008**, *80*(14):5325-5333; doi:10.1021/ac800162q.

Lajeunesse A, Vernouillet G, Eullaffroy P, Gagnon C, Juneau P, and Sauvé S. "Determination of carbamazepine in aquatic organisms by liquid–liquid extraction and liquid chromatography-tandem mass spectrometry." *Journal of Environmental Monitoring* **2009**, *11*:723-725; doi:10.1039/b820302b.

LÄKEMEDELSVERKET. "Environmental effects of pharmaceuticals, cosmetics and hygiene products: Official report from the Medical Products Agency Summary." LÄKEMEDELSVERKET Medical Products Agency, August, 2004, 13-17 pp; http://www.noharm.org/details.cfm?type=document&ID=1035.

Lakhan SE and Yellowlees P. "A Reader and Author Respond to "Green Healthcare"." *The Medscape Journal of Medicine Letters* **2008**, (August 15).

Lalko J and Api AM. "Investigation of the dermal sensitization potential of various essential oils in the local lymph node assay." *Food and Chemical Toxicology* **2006**, *44*(5):739-746; doi:10.1016/j.fct.2005.10.006.

Lalko J, Isola D, and Api AM. "Ethanol and diethyl phthalate: Vehicle effects in the local lymph node assay." *International Journal of Toxicology* **2004**, *23*(3):171-177.

Lalumera GM, Calamari D, Galli P, Castiglioni S, Crosa G, and Fanelli R. "Preliminary investigation on the environmental occurrence and effects of antibiotics used in aquaculture in Italy." *Chemosphere* **2004**, *54*(5):661-668; doi:10.1016/j.chemosphere.2003.08.001.

Lam MW. "Reactive water: The role of photooxidants in limiting the persistence of organic pollutants in the aquatic environment." Doctoral Dissertation, University of Toronto, Toronto, Ontario, Canada, 2005. 202 pp.

Lam MW and Mabury SA. "Photodegradation of the pharmaceuticals atorvastatin, carbamazepine, levofloxacin, and sulfamethoxazole in natural waters." *Aquatic Sciences* **2005**, *67*(2):177-188; doi:10.1007/s00027-004-0768-8.

Lam MW, Tantuco K, and Mabury SA. "PhotoFate: A New Approach in Accounting for the Contribution of Indirect Photolysis of Pesticides and Pharmaceuticals in Surface Waters." *Environmental Science & Technology* **2003**, *37*(5):899-907;

doi:10.1021/es025902+.

Lam MW, Young CJ, Brain RA, Johnson DJ, Hanson MA, Wilson CJ*, et al.* "Aquatic persistence of eight pharmaceuticals in a microcosm study." *Environmental Toxicology and Chemistry* **2004**, *23*(6):1431-1440; doi:10.1897/03-421.

Lam MW, Young CJ, and Mabury SA. "Aqueous Photochemical Reaction Kinetics and Transformations of Fluoxetine." *Environmental Science & Technology* **2005**, *39*(2):513-522.

Lamas JP, Salgado-Petinal C, Garcia-Jares C, Llompart M, Cela R, and Gomez M. "Solid-phase microextraction-gas chromatography-mass spectrometry for the analysis of selective serotonin reuptake inhibitors in environmental water." *Journal of Chromatography A* **2004**, *1046*(1-2):241-247; doi:10.1016/j.chroma.2004.06.099.

Lamb J, Crawford ED, Peck D, Modell JW, Blat IC, Wrobel MJ*, et al.* "The connectivity map: using gene-expression signatures to connect small molecules, genes, and disease." *Science* **2006**, *313*(5795):1929-1935; doi:10.1126/science.1132939.

Lambropoulou DA, Giokas DL, Sakkas VA, Albanis TA, and Karayannis MI. "Gas chromatographic determination of 2-hydroxy-4-methoxybenzophenone and octyldimethyl-p-aminobenzoic acid sunscreen agents in swimming pool and bathing waters by solid-phase microextraction." *Journal of Chromatography A* **2002**, *967*(2):243-253; doi:10.1016/S0021-9673(02)00781-1.

Lambropoulou DA, Hernando MD, Konstantinou IK, Thurman EM, Ferrer I, Albanis TA*, et al.* "Identification of photocatalytic degradation products of bezafibrate in TiO_2 aqueous suspensions by liquid and gas chromatography." *Journal of Chromatography A* **2008**, *1183*(1-2):38-48; doi:10.1016/j.chroma.2007.12.030.

Lamshöft M, Sukul P, Zühlke S, and Spiteller M. "Metabolism of ^{14}C-labelled and non-labelled sulfadiazine after administration to pigs." *Analytical and Bioanalytical Chemistry* **2007**, *388*(8):1733-1745; doi:10.1007/s00216-007-1368-y.

Landry Y and Gies J-P. "Drugs and their molecular targets: an updated overview." *Fundamental and Clinical Pharmacology* **2008**, *22*(1):1-18; doi:10.1111/j.1472-8206.2007.00548.x.

Lange A, Katsu Y, Ichikawa R, Paull GC, Chidgey LL, Coe TS*, et al.* "Altered sexual development in roach (Rutilus rutilus) exposed to environmental concentrations of the pharmaceutical 17α-ethinylestradiol and associated expression dynamics of aromatases and estrogen receptor." *Toxicological Sciences* **2009**, *In press*.

Lange A, Paull GC, Coe TS, Katsu Y, Urushitani H, Iguchi T*, et al.* "Sexual Reprogramming and Estrogenic Sensitization in Wild Fish Exposed to Ethinylestradiol." *Environmental Science & Technology* **2009**, *43*(4):1219-1225; doi:10.1021/es802661p.

Lange F. "Entwicklung innovativer Probevorbereitungstechniken zur Bestimmung neuer Spurenkontaminanten in wässrigen Proben und Aufklärung ihrer Abbauprodukte." Doctoral Dissertation, Martin-Luther-Universität, Halle-Wittenberg, Germany, 1979. 136 pp; http://sundoc.bibliothek.uni-halle.de/diss-online/07/08H003/prom.pdf.

Lange F, Cornelissen S, Kubac D, Sein MM, von Sonntag J, Hannich CB*, et al.* "Degradation of macrolide antibiotics by ozone: A mechanistic case study with clarithromycin." *Chemosphere* **2006**, *65*(1):17-23; doi:10.1016/j.chemosphere.2006.03.014.

Lange IG, Daxenberger A, Schiffer B, Witters H, Ibarreta D, and Meyer HHD. "Sex hormones originating from different livestock production systems: fate and potential disrupting activity in the environment." *Analytica Chimica Acta* **2002**, *473*(1-2):27-37; doi:10.1016/S0003-2670(02)00748-1.

Lange R and Dietrich D. "Environmental risk assessment of pharmaceutical drug substances--conceptual considerations." *Toxicology Letters* **2002**, *131*(1-2):97-104.

Lange R and Dietrich D. "Environmental Risk Assessment of Pharmaceutical Drug Substances - Conceptual Considerations." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Lange R, Hutchinson TH, Croudace CP, Siegmund F, Schweinfurth H, Hampe P*, et al.* "Effects of the synthetic estrogen 17α-ethinylestradiol on the life-cycle of the fathead minnow (pimephales promelas)." *Environmental Toxicology and Chemistry* **2001**, *20*(6):1216-1227.

Langer R, "Improving drug delivery." *The Scientist*, 13 September, 2004, 18 44: 44-45 pp; http://www.the-scientist.com/article/display/14933/.

Langford KH and Thomas KV. "Determination of pharmaceutical compounds in hospital effluents and their contribution to wastewater treatment works." *Environment International* **2009**, *35*(5):766-770; doi:10.1016/j.envint.2009.02.007.

Längin A, Alexy R, König A, and Kümmerer K. "Deactivation and transformation products in biodegradability testing of β-lactams amoxicillin and piperacillin." *Chemosphere* **2009**, *75*(3):347-354; doi:10.1016/j.chemosphere.2008.12.032.

Längin A, Schuster A, and Kümmerer K. "Chemicals in the Environment-the Need for a Clear Nomenclature: Parent Compounds, Metabolites, Transformation Products and Their Elimination. Authors' reply." *CLEAN - Soil, Air, Water* **2008**, *36*(4):349-350; doi:10.1002/clen.200600001.

Langley C, Marriott J, Mackridge A, and Daniszewski R. "An Analysis of Returned Medicines in Primary Care." *Pharmacy World and Science* **2005**, *27*(4):296-299.

Langston WJ, Burt GR, and Chesman BS. "Feminisation of male clams Scrobicularia plana from estuaries in Southwest UK and its induction by endocrine-disrupting chemicals." *Marine Ecology Progress Series* **2007**, *333*:173-184.

Langston WJ, Burt GR, Chesman BS, and Vane CH. "Partitioning, bioavailability and effects of oestrogens and xeno-oestrogens in the aquatic environment." *Journal of the Marine Biological Association of the United Kingdom* **2005**, *85*(1):1-31; doi:10.1017/S0025315405010787h.

Langworthy NG, Renz A, Mackenstedt U, Henkle-Duhrsen K, Bronsvoort MBD, Tanya VN*, et al.* "Macrofilaricidal activity of tetracycline against the filarial nematode Onchocerca ochengi: elimination of Wolbachia precedes worm death and suggests a dependent relationship." *Proceedings of the Royal Society of London Series B: Biological Sciences* **2000**, *267*(1448):1063-1069.

Lanzky PF and Halting-Sorensen B. "The toxic effect of the antibiotic metronidazole on aquatic organisms." *Chemosphere* **1997**, *35*(11):2553-2561; doi:10.1016/S0045-6535(97)00324-X.

Laoufi NA, Alatrache A, Pons MN, and Zahraa O. "Tylosin abatement in water by photocatalytic process." presented at International Conference on Xenobiotics in the Urban Water Cycle, 11-13 March, at Cyprus, 2009; http://arxiv.org/ftp/arxiv/papers/0904/0904.0577.pdf.

Lapczynski A, Bhatia SP, Letizia CS, and Api AM. "Fragrance material review on l-linalool." *Food and Chemical Toxicology* **2008**, *46*(11, Supplement 1):S195-S196; doi:10.1016/j.fct.2008.06.057.

Lapczynski A, Letizia CS, and Api AM. "Fragrance material review on d-linalool." *Food and Chemical Toxicology* **2008**, *46*(11, Supplement 1):S193-S194; doi:10.1016/j.fct.2008.06.044.

Lapczynski A, Letizia CS, and Api AM. "Addendum to Fragrance material review on linalool." *Food and Chemical Toxicology* **2008**, *46*(Suppl 11):S190-S192; doi:10.1016/j.fct.2008.06.087.

Lapen DR, Topp E, Metcalfe CD, Li H, Edwards M, Gottschall N*, et al.* "Pharmaceutical and personal care products in tile drainage following land application of municipal biosolids." *Science of the Total Environment* **2008**, *399*(1-3):50-65; doi:10.1016/j.scitotenv.2008.02.025.

Lappin-Scott HM, Holt G, and Bull AT. "Microbial transformation of 1,6-dichloro-1,6-dideoxy-β-D-fructofuranosyl-4-chloro-4-deoxy-α-D-galactopyranoside (TGS) by soil populations." *World Journal of Microbiology and Biotechnology* **1987**, *3*(2):95-102; doi:10.1007/BF00933609.

Lara FJ, García-Campaña AM, Neusüss C, and Alés-Barrero F. "Determination of sulfonamide residues in water samples by in-line solid-phase extraction-capillary electrophoresis." *Journal of Chromatography A* **2009**, *1216*(15):3372-3379; doi:10.1016/j.chroma.2009.01.097.

Lardot C, Steward W, Van Glabbeke M, and Armand JP. "Scientific review of EORTC trials: the functioning of the New Treatment Committee and Protocol Review Committee." *European Journal of Cancer* **2002**, *38*(Supplement 4):24-30; doi:10.1016/S0959-8049(01)00453-1.

Larkin P, Villeneuve DL, Knoebl I, Miracle AL, Carter BJ, Liu L*, et al.* "Development and validation of a 2,000-gene microarray for the fathead minnow (Pimephales Promelas)." *Environmental Toxicology and Chemistry* **2007**, *26*(7):1497-1506; doi:10.1897/06-501R.1.

Larsbo M, Fenner K, Stoob K, Burkhardt M, Abbaspour K, and Stamm C. "Simulating Sulfadimidine Transport in Surface Runoff and Soil at the Microplot and Field Scale." *Journal of Environmental Quality* **2008**, *37*(3):788-797; doi:10.2134/jeq2007.0432.

Larsbo M, Lapen DR, Topp E, Metcalfe C, Abbaspour KC, and Fenner K. "Simulation of Pharmaceutical and Personal Care Product Transport to Tile Drains after Biosolids Application." *Journal of Environmental Quality* **2009**, *38*(3):1274-1285; doi:10.2134/jeq2008.0301.

Larsen AB and Haugbølle LS. "The impact of an automated dose-dispensing scheme on user compliance, medication understanding, and medication stockpiles." *Research in Social and Administrative Pharmacy* **2007**, *3*(3):265-284; doi:10.1016/j.sapharm.2006.10.002.

Larsen IL, Stetar EA, Giles BG, and Garrison B. "Concentrations of Iodine-131 Released from a Hospital Into a Municipal Sewer." *RSO Magazine* **2001**, *6*(1):13-18.

Larsen M, Hansen K, Henriksen P, and Baatrup E. "Male zebrafish (Danio rerio) courtship behaviour resists the feminising effects of 17α-ethinyloestradiol - morphological sexual characteristics do not." *Aquatic Toxicology* **2008**, *87*(4):234-244; doi:10.1016/j.aquatox.2008.02.003.

Larsen MG, Bilberg K, and Baatrup E. "Reversibility of estrogenic sex changes in zebrafish (Danio Rerio)." *Environmental Toxicology and Chemistry* **2009**, *28*(8):1783-1785; doi:10.1897%2F08-563.1.

Larsen TA, Alder AC, Eggen RIL, Maurer M, and Lienert J. "Source Separation: Will We See a Paradigm Shift in Wastewater Handling?" *Environmental Science & Technology* **2009**, *43*(16):6121-6125; doi:10.1021/es803001r.

Larsen TA, Lienert J, Joss A, and Siegrist H. "How to avoid pharmaceuticals in the aquatic environment." *Journal of Biotechnology* **2004**, *113*(1-3):295-304; doi:10.1016/j.jbiotec.2004.03.033.

Larsen TA, Peters I, Alder A, Maurer REM, and Muncke J. "Re-engineering the toilet for sustainable wastewater management." *Environmental Science & Technology* **2001**, *35*(9):192A-197A.

Larsson BS. "Interaction between chemicals and melanin." *Pigment Cell Research* **1993**, *6*:127-133.

Larsson DGJ. "Drug production facilities – an overlooked discharge source for pharmaceuticals to the environment." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 3, pp 37-42; doi:10.1007/978-3-540-74664-5_3; http://www.springerlink.com/content/k21wj246g1u3lk45/?p=2b00c2fcf48d4443b62dc39d559569e1&pi=2.

Larsson DGJ, Adolfsson-Erici M, Parkkonen J, Pettersson M, Berg AH, Olsson PE*, et al.* "Ethinyloestradiol - an undesired fish contraceptive?" *Aquatic Toxicology* **1999**, *45*(2-3):91-97; doi:10.1016/S0166-445X(98)00112-X.

Larsson DGJ, de Pedro C, and Paxeus N. "Effluent from drug manufactures contains extremely high levels of pharmaceuticals." *Journal of Hazardous Materials* **2007**, *148*(3):751-755; doi:10.1016/j.jhazmat.2007.07.008.

Larsson DGJ and Fick J. "Transparency throughout the production chain - a way to reduce pollution from the manufacturing of pharmaceuticals?" *Regulatory Toxicology and Pharmacology* **2009**, *53*(3):161-163; doi:10.1016/j.yrtph.2009.01.008.

Larsson DGJ, Fredriksson S, Sandblom E, Paxeus N, and Axelsson M. "Is heart rate in fish a sensitive indicator to evaluate acute effects of β-blockers in surface water?" *Environmental Toxicology and Pharmacology* **2006**, *22*(3):338-340; doi:10.1016/j.etap.2006.05.002.

Larsson J, Norrgren L, and Forlin L. "Hormones and endocrine-disrupting substances in the environment." in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 6, pp 84-102; http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Lasky T, Sun W, Kadry A, and Hoffman MK. "Mean total arsenic concentrations in chicken 1989-2000 and estimated exposures for consumers of chicken." *Environmental Health Perspectives* **2004**, *12*(1):18-21; doi:10.1289/ehp.6407.

Lassen C, Skårup S, Hagen Mikkelsen S, Kjølholt J, Juul NP, and Samsøe-Petersen L. "Inventory of Biocides used in Denmark." Danish Environmental Protection Agency, Project No. 585 2001, 1999/2000, http://www.miljoestyrelsen.dk/udgiv/publications/2001/87-7944-383-4/pdf/87-7944-384-2.pdf.

Laszlo JA, Compton DL, Eller FJ, Taylor SL, and Isbell TA. "Packed-bed bioreactor synthesis of feruloylated monoacyl- and diacylglycerols: Clean production of a “green” sunscreen." *Green Chemistry* **2003**, *5*(4):382-386; doi:10.1039/b302384b.

Latch DE. "Environmental photochemistry: studies on the degradation of pharmaceutical pollutants and the michroheterogeneous distribution of singlet oxygen." Doctoral Dissertation, University of Minnesota, Minneapolis/St. Paul, Minnesota, 2005. 256 pp.

Latch DE and McNeill K. "Microheterogeneity of singlet oxygen distributions in irradiated humic acid solutions." *Science* **2006**, *311*(5768):1743-1747; doi:10.1126/science.1121636.

Latch DE, Packer JL, Arnold WA, and McNeill K. "Photochemical conversion of triclosan to 2,8-dichlorodibenzo-p-dioxin in aqueous solution." *Journal of Photochemistry and Photobiology A: Chemistry* **2003**, *158*(1):63-66; doi:10.1016/S1010-6030(03)00103-5.

Latch DE, Packer JL, Stender BL, VanOverbeke J, Arnold WA, and McNeill K. "Aqueous photochemistry of triclosan: Formation of 2,4-dichlorophenol, 2,8-dichlorodibenzo-*p*-dioxin, and oligomerization products." *Environmental Toxicology and Chemistry* **2005**, *24*(3):517-525; doi:10.1897/04-243R.1.

Latch DE, Stender BL, Packer JL, Arnold WA, and McNeill K. "Photochemical Fate of Pharmaceuticals in the Environment: Cimetidine and Ranitidine." *Environmental Science & Technology* **2003**, *37*(15):3342-3350.

Lateef A. "The microbiology of a pharmaceutical effluent and its public health implications." *World Journal of Microbiology and Biotechnology* **2004**, *20*(2):167-171; doi:10.1023/B:WIBI.0000021752.29468.4e.

Lathers CM. "Endocrine disruptors: A new scientific role for clinical pharmacologists? Impact on human health, wildlife, and the environment." *Journal of Clinical Pharmacology* **2002**, *42*(1):7-23.

Lau E. 2009, "EPA scales back waste disposal survey." The VIN News Service, 1-3 pp; http://news.vin.com/VINNews.aspx?articleId=12411.

Lau HYK and Mak KL. "A unified framework for the development of automated manufacturing systems supervisory software for the pharmaceutical industry." *International Journal of Computer Integrated Manufacturing* **1999**, *12*(2-5):281-291; doi:10.1504/IJCAT.1999.000212.

Lavado R, Loyo-Rosales JE, Floyd E, Kolodziej EP, Snyder SA, Sedlak DL*, et al.* "Site-Specific Profiles of Estrogenic Activity in Agricultural Areas of Californiaâ€™s Inland Waters." *Environmental Science & Technology* **2009**, *In press*; doi:10.1021/es902583q.

Lave LB. "Hormesis: policy implications." *Journal of Applied Toxicology* **2000**, *20*(2):141-145.

Lave LB. "Hormesis: Implications for public policy regarding toxicants." *Annual Review of Public Health* **2001**, *22*:63-68.

Lavén M, Alsberg T, Yu Y, Adolfsson-Erici M, and Sun H. "Serial mixed-mode cation-, anion-exchange solid-phase extraction for separation of basic, neutral and acidic pharmaceuticals in wastewater and analysis by high-performance liquid chromatography-quadrupole time-of-flight mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(1):49-62; doi:10.1016/j.chroma.2008.11.014.

Laville N, Aït-Aïssa S, Casellas C, and Porcher J-M. "Application de modèles in vitro à l'étude des effets des médicaments chez les poissons [Application of in vitro models for studying the effects of pharmaceuticals in fish]." *Environment, Risques & Sante* **2006**, *5*(4):284-289.

Laville N, Ait-Aissa S, Gomez E, Casellas C, and Porcher JM. "Effects of human pharmaceuticals on cytotoxicity, EROD activity and ROS production in fish hepatocytes." *Toxicology* **2004**, *196*(1-2):41-55; doi:10.1016/j.tox.2003.11.002.

Law MR, Majumdar SR, and Soumerai SB. "Effect of illicit direct to consumer advertising on use of etanercept, mometasone, and tegaserod in Canada: controlled longitudinal study." *British Medical Journal* **2008**, *337*(337):a1055; doi:10.1136/bmj.a1055.

Lawler DM, Petts GE, Foster IDL, and Harper S. "Turbidity dynamics during spring storm events in an urban headwater river system: The Upper Tame, West Midlands, UK." *Science of the Total Environment* **2006**, *360*(1-3):109-126; doi:10.1016/j.scitotenv.2005.08.032.

Lawrence J, Zhu B, Swerhone G, Topp E, Roy J, Wassenaar L*, et al.* "Community-level assessment of the effects of the broad-spectrum antimicrobial chlorhexidine on the outcome of river microbial biofilm development." *Applied and Environmental Microbiology* **2008**, *74*(11):3541-3550; doi:10.1128/AEM.02879-07.

Lawrence JR, Swerhone GDW, Topp E, Korber DR, Neu TR, and Wassenaar LI. "Structural and functional responses of river biofilm communities to the nonsteroidal anti-inflammatory diclofenac." *Environmental Toxicology and Chemistry* **2007**, *26*(4):573-583;

doi:10.1897/06-340R.1.

Lawrence JR, Swerhone GDW, Wassenaar LI, and Neu TR. "Effects of selected pharmaceuticals on riverine biofilm communities." *Canadian Journal of Microbiology* **2005**, *51*(8):655-669; doi:10.1139/W05-047.

Lawrence JR, Zhu B, Swerhone GDW, Roy J, Wassenaar LI, Topp E*, et al.* "Comparative microscale analysis of the effects of triclosan and triclocarban on the structure and function of river biofilm communities." *Science of the Total Environment* **2009**, *407*(10):3307-3316; doi:10.1016/j.scitotenv.2009.01.060.

Lawrence MG and Ort C. "Comment on “Speciation Analysis of Gadolinium Chelates in Hospital Effluents and Wastewater Treatment Plant Sewage by a Novel HILIC/ICP-MS Method”." *Environmental Science & Technology* **2009**, *43*(14):5547-5548; doi:10.1021/es901406g.

Lawrence MG, Ort C, and Keller J. "Detection of Anthropogenic Gadolinium in treated wastewater in South East Queensland, Australia." *Water Research* **2009**, *43*(14):3534-3540; doi:10.1016/j.watres.2009.04.033.

Laxminarayan R and Brown GM. "Economics of Antibiotic Resistance: A Theory of Optimal Use." *Journal of Environmental Economics and Management* **2001**, *42*(2):183-206; doi:10.1006/jeem.2000.1156.

Layton AC, Gregory BW, Seward JR, Schultz TW, and Sayler GS. "Mineralization of steroidal hormones by biosolids in wastewater treatment systems in Tennessee USA." *Environmental Science & Technology* **2000**, *34*(18):3925-3931; doi:10.1021/es9914487.

Lazarou J, Pomeranz BH, and Corey PN. "Incidence of Adverse Drug Reactions in Hospitalized Patients: A Meta-analysis of Prospective Studies." *The Journal of the American Medical Association* **1998**, *279*(15):1200-1205; doi:10.1001/jama.279.15.1200.

Lazorchak J, Kostich M, Batt A, Quinlan E, Bencic D, and Glassmeyer S. "Pharmaceuticals in the environment - Exposure, effects, and risks to humans and ecosystems: What we think we know, and what we need to know." presented at Indiana Environmental Health Summit, USEPA, 15 May, at Indianapolis, Indiana, 2009.

Le Bris H and Pouliquen H. "Experimental study on the bioaccumulation of oxytetracycline and oxolinic acid by the blue mussel (*Mytilus edulis*). An evaluation of its ability to bio-monitor antibiotics in the marine environment." *Marine Pollution Bulletin* **2004**, *48*(5-6):434-440; doi:10.1016/j.marpolbul.2003.08.018.

Le Bris H, Pouliquen H, Debernardi JM, Buchet V, and Pinault L. "Preliminary-Study on the Kinetics of Oxytetracycline in Shellfish Exposed to An Effluent of A Land-Based Fish Farm - Experimental Approach." *Marine Environmental Research* **1995**, *40*(2):171-180; doi:10.1016/0141-1136(94)00009-E.

Le Noir M, Guieysse B, and Mattiasson B. "Removal of trace contaminants using molecularly imprinted polymers." *Water Science and Technology* **2006**, *53*(11):205-212; doi:10.2166/wst.2006.354.

Le Noir M, Lepeuple A-S, Guieysse B, and Mattiasson B. "Selective removal of 17β-estradiol at trace concentration using a molecularly imprinted polymer." *Water Research* **2007**, *41*(12):2825-2831; doi:10.1016/j.watres.2007.03.023.

Le Noir M, Plieva F, Hey T, Guieysse B, and Mattiasson B. "Macroporous molecularly imprinted polymer/cryogel composite systems for the removal of endocrine disrupting trace contaminants." *Journal of Chromatography A* **2007**, *1154*(1-2):158-164; doi:10.1016/j.chroma.2007.03.064.

Le Page Y, Scholze M, Kah O, and Pakdel F. "Assessment of Xenoestrogens Using Three Distinct Estrogen Receptors and the Zebrafish Brain Aromatase Gene in a Highly Responsive Glial Cell System." *Environmental Health Perspectives* **2006**, *114*(5):752-758; doi:10.1289/ehp.8141.

Le TX and Munekage Y. "Residues of selected antibiotics in water and mud from shrimp ponds in mangrove areas in Viet Nam." *Marine Pollution Bulletin* **2004**, *49*(11-12):922-929; doi:10.1016/j.marpolbul.2004.06.016.

Le TX, Munekage Y, and Kato S-i. "Antibiotic resistance in bacteria from shrimp farming in mangrove areas." *Science of the Total Environment* **2005**, *349*(1-3):95-105; doi:10.1016/j.scitotenv.2005.01.006.

Leaños-Castañeda O and Van Der Kraak G. "Functional characterization of estrogen receptor subtypes, ERα and ERβ, mediating vitellogenin production in the liver of rainbow trout." *Toxicology and Applied Pharmacology* **2007**, *224*(2):116-125; doi:10.1016/j.taap.2007.06.017.

Lear JC, Maillard JY, Dettmar PW, Goddard PA, and Russell AD. "Chloroxylenol- and triclosan-tolerant bacteria from industrial

sources--susceptibility to antibiotics and other biocides." *International Biodeterioration & Biodegradation* **2006**, *57*(1):51-56; doi:10.1016/j.ibiod.2005.11.002.

Learn S. "Sewage tradeoff: Add overflow, help tributaries." The Oregonian, 1999, 22 April http://www.oregonlive.com/news/99/04/st042215.html.

Leazer Jr. JL, Gant S, Houck A, Leonard W, and Welch CJ. "Removal of Common Organic Solvents from Aqueous Waste Streams via Supercritical CO2 Extraction: A Potential Green Approach to Sustainable Waste Management in the Pharmaceutical Industry." *Environmental Science & Technology* **2009**, *43*(6):2018-2021; doi:10.1021/es802607a.

Lebaron P, Servais P, Troussellier M, Courties C, Muyzer G, Bernard L*, et al.* "Microbial community dynamics in Mediterranean nutrient-enriched seawater mesocosms: Changes in abundances, activity and composition." *FEMS Microbiology Ecology* **2001**, *34*(3):255-266; doi:10.1111/j.1574-6941.2001.tb00775.x.

Lebkowska M and Zalęska-Radziwiłł M. "Endocrine disruptors - Ecotoxicological assays [Zwiazki zaklocajace procesy hormonalne - badania ekotoksykologiczne]." *Archives of Environmental Protection [Archiwum Ochrony Środowiska]* **2007**, *33*(3):81-88.

LeBlanc DA. "Applicability of the "Threshold of toxicological concern" concept to residue limits for cleaning validation." *American Pharmaceutical Review* **2008**, *11*(1):93-97.

LeBlanc GA, Mu X, and Rider CV. "Embryotoxicity of the alkylphenol degradation product 4-nonylphenol to the crustacean Daphnia magna." *Environmental Health Perspectives* **2000**, *108*(12):1133-1138.

Leclair C. "Ozonation of sulfamethoxazole in wastewater." Masters Dissertation, McGill University, Montreal, Quebec, Canada, 2007. 80 pp.

Leclercq M, Mathieu O, Gomez E, Casellas C, Fenet H, and Hillaire-Buys D. "Presence and Fate of Carbamazepine, Oxcarbazepine, and Seven of Their Metabolites at Wastewater Treatment Plants." *Archives of Environmental Contamination and Toxicology* **2009**, *56*(3):408-415; doi:10.1007/s00244-008-9202-x.

LeCluyse EL. "Pregnane X receptor: Molecular basis for species differences in CYP3A induction by xenobiotics." *Chemico-Biological Interactions* **2001**, *134*(3):283-289; doi:10.1016/S0009-2797(01)00163-6.

Lecouturier D, Rochex A, and Lebeault J. "The mineralization of 5-amino-2,4,6-triiodoisophthalic acid by a two-stage fixed-bed reactor." *Water Research* **2008**, *42*(10-11):2491-2498; doi:10.1016/j.watres.2008.02.006.

Lecouturier D, Rochex A, and Lebeault JM. "Enrichment and properties of an anaerobic mixed culture that reductively deiodinates 5-amino-2,4,6-triiodoisophthalic acid, an X-ray contrast agent precursor." *Applied Microbiology and Biotechnology* **2003**, *63*(5-6):550-556; doi:10.1007/s00253-003-1296-5.

Lederberg J. "The meaning of epigenetics." *The Scientist* **2001**, *15*(18):6.

Ledford H. "The farmyard drug store." *Nature* **2006**, *443*(107):16-17; doi:10.1038/443016a.

Ledin A and Patureau D. "Cost Action 636 Xenobiotics in the urban water cycle - A network for collaboration within Europe." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 26, pp 419-426; doi:10.1007/978-3-540-74664-5_26; http://www.springerlink.com/content/p137243x88751070/?p=9ed3dcab782d422fa25c2de402461f54&pi=25.

Lee C, Hwan Jeon S, Gyun Na J, and Park K. "Sequence analysis of choriogenin h gene of medaka (oryzias latipes) and mRNA expression." *Environmental Toxicology and Chemistry* **2002**, *21*(8):1709-1714; doi:10.1897/1551-5028(2002)021<1709:SAOCHG>2.0.CO;2.

Lee C, Jeon SH, Na J-G, Choi Y-J, and Park K. "Sensitivities of mRNA Expression of Vitellogenin, Choriogenin and Estrogen Receptor by Estrogenic Chemicals in Medaka, Oryzias latipes." *Journal of Health Science* **2002**, *48*(5):441-445.

Lee CJ and Rasmussen TJ. "Occurrence of organic wastewater compounds in effluent-dominated streams in Northeastern Kansas." *Science of the Total Environment* **2006**, *371*(1-3):258-269; doi:10.1016/j.scitotenv.2006.07.023.

Lee GF and Jones-Lee A. "Overview of Sacramento-San Joaquin River Delta Water Quality Issues." G. Fred Lee & Associates, El Macero, CA, 22 June, 2004, 148 pp; http://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/wq_control_plans/2006wqcp/exhibits/append2/dk/dk-

02.pdf.

Lee GF and Jones-Lee A. "Flawed Technology of Subtitle D Landfilling of Municipal Solid Waste." G. Fred Lee & Associates, El Macero, CA, 2004 (Updated June 2008), 85 pp; http://www.iowadnr.gov/waste/policy/files/114_flawedtech.pdf.

Lee GF and Jones-Lee A. "Water/Aquifer Quality Issues that Need to be Considered in Enhanced Groundwater Recharge Projects." G. Fred Lee & Associates, El Macero, CA, May, 2005, 20 pp; http://www.gfredlee.com/Groundwater/WAQual-Rechg.pdf.

Lee GF and Jones-Lee A. "Unrecognized environmental pollutants." G. Fred Lee & Associates, El Macero, CA, 2005, 5 pp; http://www.gfredlee.com/SurfaceWQ/WileyUnrecognizedPollutants.pdf.

Lee GF and Jones-Lee A. "Groundwater quality protection issues." presented at CA/NV AWWA Fall Conference, G. Fred Lee & Associates, October, at Sacramento, CA, 2007; http://www.gfredlee.com/Groundwater/GWProtectionIssues.pdf, http://www.gfredlee.com/Groundwater/GWProtectionIssues-sli.pdf.

Lee HB and Peart TE. "Determination of 17 beta-estradiol and its metabolites in sewage effluent by solid-phase extraction and gas chromatography/mass spectrometry." *Journal of AOAC International* **1998**, *81*(6):1209-1216.

Lee HB and Peart TE. "Organic contaminants in Canadian municipal sewage sludge. Part I. Toxic or endocrine-disrupting phenolic compounds." *Water Quality Research Journal of Canada* **2002**, *37*(4):681-696.

Lee HB, Sarafin K, Peart TE, and Svoboda ML. "Acidic pharmaceuticals in sewage - Methodology, stability test, occurrence, and removal from Ontario samples." *Water Quality Research Journal of Canada* **2003**, *38*(4):667-682.

Lee H-B and Liu D. "Degradation of 17β-estradiol and its metabolites by sewage bacteria." *Water, Air, & Soil Pollution* **2002**, *134*(1-4):353-368; doi:10.1023/A:1014117329403.

Lee H-B, Peart TE, Chan J, and Gris G. "Occurrence of endocrine-disrupting chemicals in sewage and sludge samples in Toronto, Canada." *Water Quality Research Journal of Canada* **2004**, *39*(1):57-63.

Lee H-B, Peart TE, Lewina Svoboda M, and Backus S. "Occurrence and fate of rosuvastatin, rosuvastatin lactone, and atorvastatin in Canadian sewage and surface water samples." *Chemosphere* **2009**, *77*(10):1285-1291; doi:10.1016/j.chemosphere.2009.09.068.

Lee H-B, Peart TE, and Sarafin K. "Occurrence of polycyclic and nitro musk compounds in Canadian sludge and wastewater samples." *Water Quality Research Journal of Canada* **2003**, *38*(4):683-702.

Lee H-B, Peart TE, and Svoboda ML. "Determination of endocrine-disrupting phenols, acidic pharmaceuticals, and personal-care products in sewage by solid-phase extraction and gas chromatography-mass spectrometry." *Journal of Chromatography A* **2005**, *1094*(1-2):122-129; doi:10.1016/j.chroma.2005.07.070.

Lee H-B, Peart TE, and Svoboda ML. "Determination of ofloxacin, norfloxacin, and ciprofloxacin in sewage by selective solid-phase extraction, liquid chromatography with fluorescence detection, and liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2007**, *1139*(1):45-52; doi:10.1016/j.chroma.2006.11.068.

Lee H-B, Sarafin K, and Peart TE. "Determination of β-blockers and β_2-agonists in sewage by solid-phase extraction and liquid chromatography–tandem mass spectrometry." *Journal of Chromatography A* **2007**, *1148*(2):158-167; doi:10.1016/j.chroma.2007.03.024.

Lee I-S, Lee S-H, and Oh J-E. "Occurrence and fate of synthetic musk compounds in water environment." *Water Research* **2010**, *44*(1):214-222; doi:10.1016/j.watres.2009.08.049.

Lee J, Lee BC, Ra JS, Cho J, Kim IS, Chang NI*, et al.* "Comparison of the removal efficiency of endocrine disrupting compounds in pilot scale sewage treatment processes." *Chemosphere* **2008**, *71*(8):1582-1592.

Lee J-H and Landrum PF. "Development of a multi-component damage assessment model (MDAM) for time-dependent mixture toxicity with toxicokinetic interactions." *Environmental Science & Technology* **2006**, *40*(4):1341-1349; doi:10.1021/es051120f.

Lee KE, Barber LB, Cahill JD, Furlong ET, Kolpin DW, Meyer MT*, et al.* "Presence and distribution of organic wastewater compounds in wastewater, surface, ground, and drinking waters, Minnesota, 2000-02." 2004-5138, Minnesota, US Geological Survey, 2004. 4 pp; http://pubs.usgs.gov/sir/2004/5138/.

Lee KJ, Nallathamby PD, Browning LM, Osgood CJ, and Xu X-HN. "In Vivo Imaging of Transport and Biocompatibility of Single

Silver Nanoparticles in Early Development of Zebrafish Embryos." *ACS Nano* **2007**, *1*(2):133-143; doi:10.1021/nn700048y.

Lee LS, Carmosini N, Sassman SA, Dion HM, and Sepulveda MS. "Agricultural contributions of antimicrobials and hormones on soil and water quality." in *Advances in Agronomy*, Academic Press; 2007, 1, pp 1-68; http://www.elsevier.com/wps/find/bookdescription.cws_home/711079/description#description.

Lee LS, Strock TJ, Sarmah AK, and Rao PSC. "Sorption and dissipation of testosterone, estrogens, and their primary transformation products in soils and sediment." *Environmental Science & Technology* **2003**, *37*(18):4098-4105; doi:10.1021/es020998t.

Lee M-R, Lin C-Y, Li Z-G, and Tsai T-F. "Simultaneous analysis of antioxidants and preservatives in cosmetics by supercritical fluid extraction combined with liquid chromatography-mass spectrometry." *Journal of Chromatography A* **2006**, *1120*(1-2):244-251; doi:10.1016/j.chroma.2006.01.075.

Lee RF. "Annelid cytochrome P-450." *Comparative Biochemistry and Physiology C: Pharmacology Toxicology and Endocrinology* **1998**, *121*:173-179; doi:10.1016/S0742-8413(98)10037-3.

Lee S, Lee J-W, Kim S, Park P-K, Kim J-H, and Lee C-H. "Removal of 17β-estradiol by powdered activated carbon--Microfiltraion [sic] hybrid process: The effect of PAC deposition on membrane surface." *Journal of Membrane Science* **2009**, *326*(1):84-91; doi:10.1016/j.memsci.2008.09.031.

Lee S-B and Choi J. "Effects of bisphenol A and ethynyl estradiol exposure on enzyme activities, growth and development in the fourth instar larvae of Chironomus riparius (Diptera, Chironomidae)." *Ecotoxicology and Environmental Safety* **2007**, *68*(1):84-90; doi:10.1016/j.ecoenv.2006.07.003.

Lee S-M, Lee S-B, Park C-H, and Choi J. "Expression of heat shock protein and hemoglobin genes in Chironomus tentans (Diptera, chironomidae) larvae exposed to various environmental pollutants: A potential biomarker of freshwater monitoring." *Chemosphere* **2006**, *65*(6):1074-1081; doi:10.1016/j.chemosphere.2006.02.042.

Lee W, Li Z-H, Vakulenko S, and Mobashery S. "A light-inactivated antibiotic." *Journal of Medicinal Chemistry* **2000**, *43*(1):128-132; doi:10.1021/jm980648a.

Lee WY. "Copepods and Ichthyoplankton: Laboratory Studies of Pharmaceutical Waste Toxicity." in *Wastes in the Ocean*, John Wiley and Sons; New York, N.Y., 1983, pp 235-250; http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=8707408&q=+pharmaceutical+disposal&uid=790088066&setcookie=yes.

Lee Y, Escher BI, and von Gunten U. "Efficient Removal of Estrogenic Activity during Oxidative Treatment of Waters Containing Steroid Estrogens." *Environmental Science & Technology* **2008**, *42*(17):6333-6339; doi:10.1021/es7023302.

Lee Y, Yoon J, and vonGunten U. "Kinetics of the Oxidation of Phenols and Phenolic Endocrine Disruptors during Water Treatment with Ferrate (Fe(VI))." *Environmental Science & Technology* **2005**, *39*(22):8978-8984.

Lee YH, Jung WS, Choi YR, Oh JS, Jang SD, Son YG*, et al.* "Application of Pulsed Corona Induced Plasma Chemical Process to an Industrial Incinerator." *Environmental Science & Technology* **2003**, *37*(11):2563-2567.

Lee Y-J, Lee S-E, Lee DS, and Kim Y-H. "Risk assessment of human antibiotics in Korean aquatic environment." *Environmental Toxicology and Pharmacology* **2008**, *26*(2):216-221; doi:10.1016/j.etap.2008.03.014.

Lee YM, Oleszkiewicz JA, Cicek N, and Londry KL. "Endocrine disrupting compounds (EDC) in municipal wastewater treatment: A need for mass balance." *Environmental Technology* **2004**, *25*(6):635-645.

Leggett R, Lee-Smith EE, Jickells SM, and Russell DA. ""Intelligent" Fingerprinting: Simultaneous Identification of Drug Metabolites and Individuals by Using Antibody-Functionalized Nanoparticles." *Angewandte Chemie International Edition* **2007**, *46*(22):4100-4103.

Legrand M, Lam R, SousaPassos CJ, Mergler D, Salin ED, and Chan HM. "Analysis of Mercury in Sequential Micrometer Segments of Single Hair Strands of Fish-Eaters." *Environmental Science & Technology* **2007**, *41*(2):593-598; doi:10.1021/es061823c.

Lehman-McKeeman LD, Caudill D, Vassallo JD, Pearce RE, Madan A, and Parkinson A. "Effects of musk xylene and musk ketone on rat hepatic cytochrome P450 enzymes." *Toxicology Letters* **1999**, *111*(1-2):105-115; doi:10.1016/S0378-4274(99)00172-1.

Lehmann RG, Varaprath S, and Frye CL. "Degradation of silicone polymers in soil." *Environmental Toxicology and Chemistry* **1994**,

13(7):1061-1064; doi:10.1897/1552-8618(1994)13[1061:DOSPIS]2.0.CO;2.

Lehnberg K, Kovalova L, Kazner C, Wintgens T, Schettgen T, Melin T*, et al.* "Removal of Selected Organic Micropollutants from WWTP Effluent with Powdered Activated Carbon and Retention by Nanofiltration." in *Atmospheric and Biological Environmental Monitoring*, Kim YJ, Platt U, Gu MB and Iwahashi H, Eds., Springer; 2009, Chapter 11, pp doi:10.1007/978-1-4020-9674-7; http://books.google.com/books?hl=en&lr=&id=giINz_IVOwAC&oi=fnd&pg=PT171&dq=thomas+heberer&ots=vKODYhzz3x&sig=lQcX3tgD-gpCz9nF1IliKu3V4-4#v=onepage&q=&f=false.

Lei B, Huang S, Zhou Y, Wang D, and Wang Z. "Levels of six estrogens in water and sediment from three rivers in Tianjin area, China." *Chemosphere* **2009**, *76*(1):36-42; doi:10.1016/j.chemosphere.2009.02.035.

Lei H and Snyder SA. "3D QSPR models for the removal of trace organic contaminants by ozone and free chlorine." *Water Research* **2007**, *41*(18):4051-4060; doi:10.1016/j.watres.2007.05.010.

Leiker TJ, Abney SR, Goodbred SL, and Rosen MR. "Identification of methyl triclosan and halogenated analogues in male common carp (Cyprinus carpio) from Las Vegas Bay and semipermeable membrane devices from Las Vegas Wash, Nevada." *Science of the Total Environment* **2009**, *407*(6):2102-2114; doi:10.1016/j.scitotenv.2008.11.009.

Lemini C, Hernandez A, Jaimez R, Franco Y, Avila ME, and Castell A. "Morphometric analysis of mice uteri treated with the preservatives methyl, ethyl, propyl, and butylparaben." *Toxicology and Industrial Health* **2004**, *20*(6-10):123-132; doi:10.1191/0748233704th202oa.

Lemini C, Jaimez R, Avila ME, Franco Y, Larrea F, and Lemus AE. "In vivo and in vitro estrogen bioactivities of alkyl parabens." *Toxicology and Industrial Health* **2003**, *19*(2-6):69-79; doi:10.1191/0748233703th177oa.

Lemmen SW, Häfner H, Reinert RR, Zolldann D, Kümmerer K, and Lütticken R. "Comparison of serum bactericidal activity of ceftazidime, ciprofloxacin and meropenem against Stenotrophomonas maltophilia." *Journal of Antimicrobial Chemotherapy* **2001**, *47*(1):118-120; doi:10.1093/jac/47.1.118.

Lemonick MD, "In our streams: Prozac and pesticides." *Time*, 25 August, 2003, 8 51- pp; http://www.time.com/time/magazine/article/0,9171,1005488,00.html.

Lemus JA and Blanco G. "Cellular and humoral immunodepression in vultures feeding upon medicated livestock carrion." *Proceedings of the Royal Society B Biological Sciences* **2009**, *In Press*; doi:10.1098/rspb.2009.0071.

Lemus JÁ, Blanco G, Arroyo B, Martínez F, and Grande J. "Fatal embryo chondral damage associated with fluoroquinolones in eggs of threatened avian scavengers." *Environmental Pollution* **2009**, *157*(8-9):2421-2427; doi:10.1016/j.envpol.2009.03.013.

Lemus JA, Blanco G, Grande J, Arroyo B, Garcia-Montijano M, and Martinez F. "Antibiotics threaten wildlife: circulating quinolone residues and disease in Avian scavengers." *PLoS Medicine* **2008**, *16*(3(1)):e1444.

Lenz K, Koellensperger G, Hann S, Weissenbacher N, Mahnik SN, and Fuerhacker M. "Fate of cancerostatic platinum compounds in biological wastewater treatment of hospital effluents." *Chemosphere* **2007**, *69*(11):1765-1774; doi:10.1016/j.chemosphere.2007.05.062.

Leon A, Teh SJ, Hall LC, and Teh FC. "Androgen disruption of early development in Qurt strain medaka (Oryzias latipes)." *Aquatic Toxicology* **2007**, *82*(3):195-203; doi:10.1016/j.aquatox.2007.02.012.

Léon A, Wu P-S, Hall LC, Johnson ML, and Teh SJ. "Global Gene Expression Profiling of Androgen Disruption in Qurt Strain Medaka." *Environmental Science & Technology* **2008**, *42*(3):962-969; doi:10.1021/es071785c.

Leon D. "Innovation and the workplace." *Drug Discovery Today* **1999**, *4*:181-185.

Leon Z, Balaguer A, Chisvert A, Salvador A, Herraez M, and Diez O. "A reversed-phase ion-interaction chromatographic method for in-vitro estimation of the percutaneous absorption of water-soluble UV filters." *Analytical and Bioanalytical Chemistry* **2008**, *391*(3):859-866; doi:10.1007/s00216-008-2013-0.

Leonards PEG and de Boer J. "Synthetic musks in fish and other aquatic organisms." in *Synthetic Musk Fragrances in the Environment*, Rimkus GG, Ed., Springer-Verlag; Heidelberg, 2004, pp 49-84.

Leopold A, Wilson S, Weaver JS, and Moursi AM. "Pharmacokinetics of Lidocaine Delivered From a Transmucosal Patch in Children." *Anesthesia Progress* **2002**, *49*(3):82-87.

Lerner DT, Björnsson BT, and Mccormick SD. "Larval exposure to 4-nonphenol and 17β-estradiol affects physiological and behavioral development of seawater adaptation in atlantic salmon smolts." *Environmental Science & Technology* **2007**, *41*(12):4479-4485; doi:10.1021/es070202w.

Lertpaitoonpan W, Ong SK, and Moorman TB. "Effect of organic carbon and pH on soil sorption of sulfamethazine." *Chemosphere* **2009**, *176*(4):558-564; doi:10.1016/j.chemosphere.2009.02.066.

Leschik S, Musolff A, Martienssen M, Krieg R, Bayer-Raich M, Reinstorf F*, et al.* "Investigation of sewer exfiltration using integral pumping tests and wastewater indicators." *Journal of Contaminant Hydrology* **2009**, *In Press*; doi:10.1016/j.jconhyd.2009.10.001.

Leskinen P, Michelini E, Picard D, Karp M, and Virta M. "Bioluminescent yeast assays for detecting estrogenic and androgenic activity in different matrices." *Chemosphere* **2005**, *61*(2):259-266; doi:10.1016/j.chemosphere.2005.01.080.

Leslie EM, Deeley RG, and Cole SPC. "Toxicological relevance of the multidrug resistance protein 1, MRP1 (ABCC1) and related transporters." *Toxicology* **2001**, *167*(1):3-23; doi:10.1016/S0300-483X(01)00454-1.

Leslie HA, Kraak MH, and Hermens JL. "Chronic toxicity and body residues of the nonpolar narcotic 1,2,3,4-tetrachlorobenzene in Chironomus riparius." *Environmental Toxicology and Chemistry* **2004**, *23*(8):2022-2028; doi:10.1897/03-385.

Lesney MS. "More than just the sugar in the pill." *Today's Chemist* **2001**, (January):38-43.

Lesney MS. "Farming for pharmaceuticals." *Today's Chemist* **2004**:25-27.

Lessenger JE and Feinberg SD. "Abuse of Prescription and Over-the-Counter Medications." *The Journal of the American Board of Family Medicine* **2008**, *21*(1):45-54; doi:10.3122/jabfm.2008.01.070071.

Letizia CS, Cocchiara J, J. L, and Api AM. "Fragrance material review on linalool." *Food and Chemical Toxicology* **2003**, *41*(7):943-964; doi:10.1016/S0278-6915(03)00015-2.

Letizia CS, Cocchiara J, J. L, and Api AM. "Fragrance material review on linalyl acetate." *Food and Chemical Toxicology* **2003**, *41*(7):965-976; doi:10.1016/S0278-6915(03)00014-0.

Letizia CS, Cocchiara J, J. L, and Api AM. "Fragrance material review on linalyl benzoate." *Food and Chemical Toxicology* **2003**, *41*(7):977-981; doi:10.1016/S0278-6915(03)00017-6.

Letizia CS, Cocchiara J, J. L, and Api AM. "Fragrance material review on linalyl butyrate." *Food and Chemical Toxicology* **2003**, *41*(7):983-987; doi:10.1016/S0278-6915(03)00019-X.

Letizia CS, Cocchiara J, J. L, and Api AM. "Fragrance material review on linalyl cinnamate." *Food and Chemical Toxicology* **2003**, *41*(7):989-993; doi:10.1016/S0278-6915(03)00020-6.

Letizia CS, Cocchiara J, J. L, and Api AM. "Fragrance material review on linalyl formate." *Food and Chemical Toxicology* **2003**, *41*(7):995-999; doi:10.1016/S0278-6915(03)00022-X.

Letizia CS, Cocchiara J, J. L, and Api AM. "Fragrance material review on linalyl hexanoate." *Food and Chemical Toxicology* **2003**, *41*(7):1001-1004; doi:10.1016/S0278-6915(03)00023-1.

Letizia CS, Cocchiara J, J. L, and Api AM. "Fragrance material review on linalyl isobutyrate." *Food and Chemical Toxicology* **2003**, *41*(7):1005-1010; doi:10.1016/S0278-6915(03)00026-7.

Letizia CS, Cocchiara J, J. L, and Api AM. "Fragrance material review on linalyl isovalerate." *Food and Chemical Toxicology* **2003**, *41*(7):1011-1015; doi:10.1016/S0278-6915(03)00027-9.

Letizia CS, Cocchiara J, J. L, and Api AM. "Fragrance material review on linalyl propionate." *Food and Chemical Toxicology* **2003**, *41*(7):1023-1027; doi:10.1016/S0278-6915(03)00029-2.

Letizia CS, Cocchiara J, J. L, and Api AM. "Fragrance material review on linalyl phenylacetate." *Food and Chemical Toxicology* **2003**, *41*(7):1017-1021; doi:10.1016/S0278-6915(03)00028-0.

Letzel M, Kaul U, Forstner S, Schussler W, Metzner G, Knopp D*, et al.* "Arzneimittel im Gewässer – Bilanzierung der Belastung am Beispiel des Schmerzmittels Diclofenac (in German)." *Mitt Umweltchem Okotox* **2007**, *1*:3-6.

Letzel M, Metzner G, and Letzel T. "Exposure assessment of the pharmaceutical diclofenac based on long-term measurements of the aquatic input." *Environment International* **2009**, *35*(2):363-368; doi:10.1016/j.envint.2008.09.002.

Leung H-W. "Ecotoxicology of Glutaraldehyde: Review of Environmental Fate and Effects Studies." *Ecotoxicology and Environmental Safety* **2001**, *49*(1):26-39.

Leung MCK, Williams PL, Benedetto A, Au C, Helmcke KJ, Aschner M*, et al.* "Caenorhabditis elegans: An Emerging Model in Biomedical and Environmental Toxicology." *Toxicological Sciences* **2008**, *106*(1):5-28; doi:10.1093/toxsci/kfn121.

Leusch FDL, Chapman HF, Kay GW, Gooneratne SR, and L.A. T. "Anal fin morphology and gonadal histopathology in mosquitofish (Gambusia holbrooki) exposed to treated municipal sewage effluent." *Archives of Environmental Contamination and Toxicology* **2006**, *50*(4):562-574; doi:10.1007/s00244-005-1040-5.

Leusch FDL, Chapman HF, Korner W, Gooneratne SR, and Tremblay LA. "Efficacy of an advanced sewage treatment plant in southeast Queensland, Australia, to remove estrogenic chemicals." *Environmental Science & Technology* **2005**, *39*(15):5781-5786; doi:10.1021/es0484303.

Leusch FDL, Chapman HF, van den Heuvel MR, Tan BLL, Gooneratne SR, and Tremblay LA. "Bioassay-derived androgenic and estrogenic activity in municipal sewage in Australia and New Zealand." *Ecotoxicology and Environmental Safety* **2006**, *65*(3):403-411; doi:10.1016/j.ecoenv.2005.07.020.

Leveque C, Hougard JM, Resh V, Statzner B, and Yameogo L. "Freshwater ecology and biodiversity in the tropics: what did we learn from 30 years of onchocerciasis control and the associated biomonitoring of West African rivers?" *Hydrobiologia* **2003**, *500*(1-3):23-49.

Lévi Y. "Antibiotics and antibiotic-resistant bacteria in water: Something to worry about?" *Environment, Risques & Sante* **2006**, *5*(4):261-265.

Levi Y and Cargouet M. "New micropollutants in waters and new health risks." *Actualite Chimique* **2004**, *277*(78):49-56.

Levin RB, Epstein PR, Ford TE, Harrington W, Olson E, and Reichard EG. "U.S. drinking water challenges in the twenty-first century." *Environmental Health Perspectives* **2002**, *110*(S1):43-52.

Levine AD and Asano T. "Recovering sustainable water from wastewater." *Environmental Science & Technology* **2004**, *38*(11):201A-208A; doi:10.1021/es040504n.

Levine AD, Meyer MT, and Kish G. "Evaluation of the persistence of micropollutants through pure-oxygen activated sludge nitrification and denitrification." *Water Environment Research* **2006**, *78*(11):2276-2285; doi:10.2175/106143005X82244.

Levy CW, Roujeinikova A, Sedelnikova S, Baker PJ, Stuitje AR, Slabas AR*, et al.* "Molecular basis of triclosan activity." *Nature* **1999**, *398*(6726):383-384; doi:10.1038/18803.

Levy S. "Has the time come for a third class of drugs?" *Drug Topics* **2008**, *152*(7):30-34.

Levy W. "Peptide Progress: Refined manufacturing and delivery promises more advanced drug offerings." *Pharmaceutical Formulation & Quality* **2008**, *10*(3):28-30, 32.

Lewis K. "In search of natural substrates and inhibitors of MDR pumps." *Journal of Molecular Microbiology and Biotechnology* **2001**, *3*(2):247-254.

Lewis PJ, Dornan T, Taylor D, Tully MP, Wass V, and Ashcroft DM. "Prevalence, Incidence and Nature of Prescribing Errors in Hospital Inpatients: A Systematic Review." *Drug Safety* **2009**, *32*(5):379-389.

Lewis S, Handy RD, Cordi B, Billinghurst Z, and Depledge MH. "Stress proteins (HSP's): Methods of Detection and Their Use as an Environmental Biomarker." *Ecotoxicology* **1999**, *8*(5):351-368; doi:10.1023/A:1008982421299.

LfM "Swedish doctors for the environment." Web Page maintained by Läkare för Miljön 2009, http://www.dnsy.se/lfm/In_English/.

Lhasa Limited Leeds UK. "Zeneth: Predicting forced degradation pathways of active pharmaceutical ingredients during drug development." **2009**, 2 pp; http://www.lhasalimited.org/index.php?cat=2&sub_cat=266.

Li B, Zhang T, Xu Z, and Fang HHP. "Rapid analysis of 21 antibiotics of multiple classes in municipal wastewater using ultra performance liquid chromatography-tandem mass spectrometry." *Analytica Chimica Acta* **2009**, *645*(1-2):64-72; doi:10.1016/j.aca.2009.04.042.

Li BX, Zhang ZJ, Zhao LX, and Xu CL. "Chemiluminescence flow-through sensor for pipemidic acid using solid sodium bismuthate as an oxidant." *Analytica Chimica Acta* **2002**, *459*(1):19-24; doi:10.1016/S0003-2670(02)00084-3.

Li C-T. "Application of Caplillary Electrophoresis to Separate Enantiomeric Pharmaceutical Drugs." Masters Dissertation, Chemistry, 2007. http://thesis.lib.ncu.edu.tw/ETD-db/ETD-search/view_etd?URN=952203047.

Li C-X, Han J, Wang Y, Yan Y-S, Xu X-H, and Pan J-M. "Extraction and mechanism investigation of trace roxithromycin in real water samples by use of ionic liquid-salt aqueous two-phase system." *Analytica Chimica Acta* **2009**, *653*(2):178-183; doi:10.1016/j.aca.2009.09.011.

Li D, Yang M, Hu J, Ren L, Zhang Y, and Li K. "Determination and fate of oxytetracycline and related compounds in oxytetracycline production wastewater and the receiving river." *Environmental Toxicology and Chemistry* **2008**, *27*(1):80-86.

Li D, Yang M, Hu J, Zhang J, Liu R, Gu X*, et al.* "Antibiotic-resistance profile in environmental bacteria isolated from penicillin production wastewater treatment plant and the receiving river." *Environmental Microbiology* **2009**, *11*(6):1506-1517; doi:10.1111/j.1462-2920.2009.01878.x.

Li D, Yang M, Hu J, Zhang Y, Chang H, and Jin F. "Determination of penicillin G and its degradation products in a penicillin production wastewater treatment plant and the receiving river." *Water Research* **2008**, *42*(1-2):307-317.

Li FM and Yu LN. "Determination of trimebutine maleate in rat plasma and tissues by using capillary zone electrophoresis." *Biomedical Chromatography* **2001**, *15*(4):248-251; doi:10.1002/bmc.52.

Li H, Kijak PJ, Turnipseed SB, and Cui W. "Analysis of veterinary drug residues in shrimp: A multi-class method by liquid chromatography-quadrupole ion trap mass spectrometry." *Journal of Chromatography B: Biomedical Sciences and Applications* **2006**, *836*(1-2):22-38; doi:10.1016/j.jchromb.2006.03.025.

Li J and Jin Z. "Effect of hypersaline aniline-containing pharmaceutical wastewater on the structure of activated sludge-derived bacterial community." *Journal of Hazardous Materials* **2009**, *172*(1):432-438; doi:10.1016/j.jhazmat.2009.07.031.

Li JD, Cai YQ, Shi YL, Mou SF, and Jiang GB. "Determination of sulfonamide compounds in sewage and river by mixed hemimicelles solid-phase extraction prior to liquid chromatography-spectrophotometry." *Journal of Chromatography A* **2007**, *1139*(2):178-184; doi:10.1016/j.chroma.2006.11.023.

Li K, Liu L, Xu C, and Chu X. "Rapid Determination of Chloramphenicol Residues in Aquaculture Tissues by Immunochromatographic Assay." *Analytical Sciences* **2007**, *23*(11):1281-1284.

Li K, Yediler A, Yang M, Schulte-Hostede S, and Wong MH. "Ozonation of oxytetracycline and toxicological assessment of its oxidation by-products." *Chemosphere* **2008**, *72*(3):473-478; doi:10.1016/j.chemosphere.2008.02.008.

Li M, Hu B, Li J, Chen R, Zhang X, and Chen H. "Extractive Electrospray Ionization Mass Spectrometry toward in Situ Analysis without Sample Pretreatment." *Analytical Chemistry* **2009**, *81*(18):7724-7731; doi:10.1021/ac901199w.

Li QQ, Loganath A, Chong YS, Tan J, and Obbard JP. "Persistent organic pollutants and adverse health effects in humans." *Journal of Toxicology and Environmental Health, Part A: Current Issues* **2006**, *69*(21):1987-2005; doi:10.1080/15287390600751447.

Li S, Bejan D, McDowell M, and Bunce N. "Mixed first and zero order kinetics in the electrooxidation of sulfamethoxazole at a boron-doped diamond (BDD) anode." *Journal of Applied Electrochemistry* **2008**, *38*(2):151-159; doi:10.1007/s10800-007-9413-2.

Li W, Ma Y, Guo C, Hu W, Liu K, Wang Y*, et al.* "Occurrence and behavior of four of the most used sunscreen UV filters in a wastewater reclamation plant." *Water Research* **2007**, *41*(15):3506-3512.

Li W, Seifert M, Xu Y, and Hock B. "Comparative study of estrogenic potencies of estradiol, tamoxifen, bisphenol-A and resveratrol with two in vitro bioassays." *Environment International* **2004**, *30*(3):329-335; doi:10.1016/S0160-4120(03)00183-1.

Li Y, George EJ, Hansen EM, and Thoma JJ. "Analysis of Natural and Synthetic Estrogens in Water Using ESI/LC/MS Coupled With SPE." in American Water Works Association: Water Quality Technology Conference Proceedings, 11-15 November, 2001.

Li Y, Wang L, Liao L, Sun L, Zheng G, Luan J*, et al.* "Nitrate-dependent biodegradation of quinoline, isoquinoline, and 2-methylquinoline by acclimated activated sludge." *Journal of Hazardous Materials* **2010**, *173*(1-3):151-158; doi:10.1016/j.jhazmat.2009.08.061.

Li YH and Lu JR. "Chemiluminescence flow-injection analysis of β-lactam antibiotics using the luminol-permanganate reaction." *Luminescence* **2006**, *21*(4):251-255; doi:10.1002/bio.915.

Li YS, Sleigh AC, Ross AGP, Williams GM, Tanner M, and McManus DP. "Epidemiology of Schistosoma japonicum in China: morbidity and strategies for control in the Dongting Lake region." *International Journal for Parasitology* **2000**, *30*(3):273-281; doi:10.1016/S0020-7519(99)00201-5.

Li Z, Wang S, Alice Lee N, Allan RD, and Kennedy IR. "Development of a solid-phase extraction-enzyme-linked immunosorbent assay method for the determination of estrone in water." *Analytica Chimica Acta* **2004**, *503*(2):171-177; doi:10.1016/j.aca.2003.10.026.

Li ZH and Randak T. "Residual pharmaceutically active compounds (PhACs) in aquatic environment – status, toxicity and kinetics: a review." *Veterinarni Medicina* **2009**, *52*(7):295-314.

Li Z-H, Velisek J, Zlabek V, Grabic R, Machova J, Kolarova J*, et al.* "Hepatic antioxidant status and hematological parameters in rainbow trout, Oncorhynchus mykiss, after chronic exposure to carbamazepine." *Chemico-Biological Interactions* **2009**, *In Press*; doi:10.1016/j.cbi.2009.09.009.

Li Z-H, Zlabek V, Velisek J, Grabic R, Machova J, and Randak T. "Modulation of antioxidant defence system in brain of rainbow trout (Oncorhynchus mykiss) after chronic carbamazepine treatment." *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* **2009**, *In Press*; doi:10.1016/j.cbpc.2009.09.006.

Liang Y, Denton MB, and Bates RB. "Stability studies of tetracycline in methanol solution." *Journal of Chromatography A* **1998**, *827*(1):45-55; doi:10.1016/S0021-9673(98)00755-9.

Liawruangrath S, Makchit J, and Liawruangrath B. "A simple flow injection spectrophotometric procedure for the determination of diazepam in pharmaceutical formulation." *Analytical Sciences* **2006**, *22*(1):127-130.

Licea-Perez H, Wang S, Bowen CL, and Yang E. "A semi-automated 96-well plate method for the simultaneous determination of oral contraceptives concentrations in human plasma using ultra performance liquid chromatography coupled with tandem mass spectrometry." *Journal of Chromatography B: Biomedical Sciences and Applications* **2007**, *852*(1-2):69-76; doi:10.1016/j.jchromb.2006.12.052.

Licking E, (Editor), "Developments to watch - innovations." *Business Week*, 11 October, 1999, 73 pp.

Liebig M. "Untersuchungen zu Umweltrisikoabschätzungen von Humanpharmaka und Inhaltstoffen von Körperpflegeprodukten vor dem Hintergrund europäischer Bewertungskonzepte." Doctoral Dissertation, Johann Wolfgang Goethe-Universität, Frankfurt, Germany, 2005. 230 pp; http://publikationen.ub.uni-frankfurt.de/volltexte/2005/921/pdf/Liebig_Dissertation_2005.pdf.

Liebig M, Egeler P, Oehlmann J, and Knacker T. "Bioaccumulation of ^{14}C-17α-ethinylestradiol by the aquatic oligochaete Lumbriculus variegatus in spiked artificial sediment." *Chemosphere* **2005**, *59*(2):271-280; doi:10.1016/j.chemosphere.2004.10.051.

Liebig M, Moltmann JF, and Knacker T. "Evaluation of measured and predicted environmental concentrations of selected human pharmaceuticals and personal care products." *Environmental Science and Pollution Research* **2006**, *13*(2):110-119; doi:10.1065/espr2005.08.276.

Liebl B and Ehrenstorfer S. "Nitro musks in human milk." *Chemosphere* **1993**, *27*(11):2253-2260; doi:10.1016/0045-6535(93)90136-S.

Liebl B, Mayer R, Ommer S, Sonnichsen C, and Koletzko B. "Transition of nitro musks and polycyclic musks into human milk." in *Short and Long Term Effects of Breast Feeding on Child Health*, 2000, pp 289-305; doi:10.1007/0-306-46830-1_26; http://www.springerlink.com/content/g26204hgu6u61ux2/.

Liekens S, De Clercq E, and Neyts J. "Angiogenesis: regulators and clinical applications." *Biochemical Pharmacology* **2001**, *61*(3):253-270; doi:10.1016/S0006-2952(00)00529-3.

Lienert J, Burki T, and Escher BI. "Reducing micropollutants with source control: substance flow analysis of 212 pharmaceuticals in faeces and urine." *Water Science and Technology* **2007**, *56*(5):87-96.

Lienert J, Gudel K, and Escher BI. "Screening Method for Ecotoxicological Hazard Assessment of 42 Pharmaceuticals Considering Human Metabolism and Excretory Routes." *Environmental Science & Technology* **2007**, *41*(12):4471-4478; doi:10.1021/es0627693.

Lienert J and Larsen TA. "Considering User Attitude in Early Development of Environmentally Friendly Technology: A Case Study of NoMix Toilets." *Environmental Science & Technology* **2006**, *40*(16):4838-4844.

Lietz AC and Meyer MT. "Evaluation of emerging contaminants of concern at the South District Wastewater Treatment Plant based on seasonal sampling events, Miami-Dade County, Florida, 2004." 2006, 38 pp; http://pubs.usgs.gov/sir/2006/5240/pdf/sir2006-5240.pdf.

LIF. "Pharmaceuticals in the Environment: Current Research and Regulatory Aspects." in Symposium Proceedings, Richard Bergström (Managing Director, The Swedish Association of the Pharmaceutical Industry, LIF), Stockholm, Sweden, 2004, 14 pp; http://www.lif.se/pdf/Pharm_environment.pdf.

LIF. "Swedish environmental classification of pharmaceuticals." Swedish Association of the Pharmaceutical Industry (LIF), AB LSATSAotPI, Ed., 200804, Stockholm, Sweden, 2008, 12 pp pp; http://www.lif.se/cs/Publik%20webb/Sidinnehall/Publik_Dokument/Verksamheter/Milj%C3%B6/Swedish%20environmental%20classification%20of%20pharmaceuticals.pdf.

LIF and The Swedish Association of the Pharmaceutical Ind "Swedish environmental classification of pharmaceuticals database." 2008; http://www.fass.se/LIF/miljo_splash/index_en.jsp http://www.fass.se/LIF/produktfakta/fakta_lakare_artikel.jsp?articleID=84645&UserTypeID=0.

Lignell S, Darnerud PO, Aune M, Cnattingius S, Hajslova J, Setkova L*, et al.* "Temporal Trends of Synthetic Musk Compounds in Mother's Milk and Associations with Personal Use of Perfumed Products." *Environmental Science & Technology* **2008**, *42*(17):6743-6748; doi:10.1021/es800626n.

Ligon AP, Zuehlke S, and Spiteller M. "GC-MS analysis of organic compounds in wastewater and sewage sludge." *Journal of Separation Science* **2008**, *31*:143-150; doi:10.1002/jssc.200700361.

Lilius H, Hästbacka T, and Isomaa B. "A comparison of the toxicity of 30 reference chemicals to Daphnia magna and Daphnia pulex." *Environmental Toxicology* **1995**, *14*(12):2085-2088; doi:10.1897/1552-8618(1995)14[2085:ACOTTO]2.0.CO;2.

Lillenberg M, Yurchenko S, Kipper K, Herodes K, Pihl V, Sepp K*, et al.* "Simultaneous determination of fluoroquinolones, sulfonamides and tetracyclines in sewage sludge by pressurized liquid extraction and liquid chromatography electrospray ionization-mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(32):5949-5954; doi:10.1016/j.chroma.2009.06.029.

Lilley R, Lambden P, and Gillies A. "Medicines management for residential and nursing homes." Abingdon, UK, Radcliffe Publishing, 2006; http://www.radcliffe-oxford.com/books/bookdetail.aspx?ISBN=1846191203.

Lim MH. "Fate of wastewater-derived contaminants in surface waters." Doctoral Dissertation, University of California, Berkeley, Berkeley, CA, 2008. 183 pp.

Lim M-H, Snyder SA, and Sedlak DL. "Use of biodegradable dissolved organic carbon (BDOC) to assess the potential for transformation of wastewater-derived contaminants in surface waters." *Water Research* **2008**, *42*(12):2943-2952; doi:10.1016/j.watres.2008.03.008.

Lima JLFC, Prior JAV, Reis BF, Santos JLM, and Zagatto EAG. "Automated spectrophotometric determination of clomipramine on a multicommutated flow system." *Analytica Chimica Acta* **2002**, *467*(1-2):75-81; doi:10.1016/S0003-2670(02)00129-0.

Lima L and Schmeer C. "Characterization of Serotonin Transporter in Goldfish Retina by the Binding of [^{3}H]Paroxetine and the Uptake of [^{3}H]Serotonin: Modulation by Light." *Journal of Neurochemistry* **1994**, *62*(2):528-535; doi:10.1046/j.1471-4159.1994.62020528.x.

Limpiyakorn T, Homklin S, and Ong SK. "Hormones." in *Contaminats of Emerging Environmental Concern*, Bhandari A, Surampalli RY, Adams CD, Champagne P, Ong SK, Tyagi RD and Zhang TC, Eds., American Society of Civil Engineers; Reston, Virginia, 2008, Chapter 6, pp 186-234; http://books.google.com/books?id=1G7D2d99orkC&source=gbs_navlinks_s.

Lin AYC, Plumlee MH, and Reinhard M. "Natural attenuation of pharmaceuticals and alkylphenol polyethoxylate metabolites during river transport: Photochemical and biological transformation." *Environmental Toxicology and Chemistry* **2006**, *25*(6):1458-1464; doi:10.1897/05-412R.1.

Lin AYC and Reinhard M. "Photodegradation of common environmental pharmaceuticals and estrogens in river water." *Environmental Toxicology and Chemistry* **2005**, *24*(6):1303-1309; doi:10.1897/04-236R.1.

Lin AY-C, Lin C-F, Chiou J-M, and Hong PKA. "O_3 and O_3/H_2O_2 treatment of sulfonamide and macrolide antibiotics in wastewater." *Journal of Hazardous Materials* **2009**, *171*(1-3):452-458; doi:10.1016/j.jhazmat.2009.06.031.

Lin AY-C and Tsai Y-T. "Occurrence of pharmaceuticals in Taiwan's surface waters: Impact of waste streams from hospitals and pharmaceutical production facilities." *Science of the Total Environment* **2009**, *407*(12):3793-3802; doi:10.1016/j.scitotenv.2009.03.009.

Lin AY-C, Yu T-H, Lateef SK, and Lin C-F. "Removal of Pharmaceuticals in Secondary Wastewater Treatment Processes in Taiwan." *Journal of Hazardous Materials* **2009**, *167*(1-3):1163-1169; doi:10.1016/j.jhazmat.2009.01.108.

Lin AY-C, Yu T-H, and Lin C-F. "Pharmaceutical contamination in residential, industrial, and agricultural waste streams: Risk to aqueous environments in Taiwan." *Chemosphere* **2008**, *74*(1):131-141; doi:10.1016/j.chemosphere.2008.08.027.

Lin L, Yuan S, Chen J, Wang L, Wan J, and Lu X. "Treatment of chloramphenicol-contaminated soil by microwave radiation." *Chemosphere* **2009**, *In Press*; doi:10.1016/j.chemosphere.2009.09.054.

Lin LL and Janz DM. "Effects of binary mixtures of xenoestrogens on gonadal development and reproduction in zebrafish." *Aquatic Toxicology* **2006**, *80*(4):382-395; doi:10.1016/j.aquatox.2006.10.004.

Lin W-C. "Fast Analysis of Pharmaceutical Residues in Waters by GC-MS." Masters Dissertation, 2002. 68 pp; http://thesis.lib.ncu.edu.tw/ETD-db/ETD-search/view_etd?URN=90223008.

Lin W-C, Chen H-C, and Ding W-H. "Determination of pharmaceutical residues in waters by solid-phase extraction and large-volume on-line derivatization with gas chromatography-mass spectrometry." *Journal of Chromatography A* **2005**, *1065*(2):279-285; doi:10.1016/j.chroma.2004.12.081.

Lin WY and Feng AS. "GABA is involved in spatial unmasking in the frog auditory midbrain." *Journal of Neuroscience* **2003**, *23*(22):8143-8151.

Lin Y, Peng Z, and Zhang X. "Ozonation of estrone, estradiol, diethylstilbestrol in waters." *Desalination* **2009**, *249*(1):235-240; doi:10.1016/j.desal.2008.06.034.

Lin Y-C, Panchangam SC, and Chen H-Y. "Implications of human pharmaceutical occurrence in the Sindian river of Taiwan: A strategic study of risk assessment." *Journal of Environmental Monitoring* **2009**, *In press*; doi:10.1039/b903880a.

Lin YH, Chen CY, and Wang GS. "Analysis of steroid estrogens in water using liquid chromatography/tandem mass spectrometry with chemical derivatizations." *Rapid Communications in Mass Spectrometry* **2007**, *21*(13):1973-1983; doi:10.1002/rcm.3050.

Lin YK and Ho HO. "Investigations on the drug releasing mechanism from an asymmetric membrane-coated capsule with an in situ formed delivery orifice." *Journal of Controlled Release* **2003**, *89*(1):57-69; doi:10.1016/S0168-3659(03)00091-9.

Lindberg R. "Determination of Antibiotics in the Swedish Environment with Emphasis on Sewage Treatment Plants." Doctoral Dissertation, Umeå University, Umeå, Sweden, 2006. 31 pp; http://www.diva-portal.org/umu/abstract.xsql?dbid=745.

Lindberg R, Jarnheimer P-A, Olsen B, Johansson M, and Tysklind M. "Determination of antibiotic substances in hospital sewage water using solid phase extraction and liquid chromatography/mass spectrometry and group analogue internal standards." *Chemosphere* **2004**, *57*(10):1479-1488; doi:10.1016/j.chemosphere.2004.09.015.

Lindberg RH, Bjorklund K, Rendahl P, Johansson MI, Tysklind M, and Andersson BAV. "Environmental risk assessment of antibiotics in the Swedish environment with emphasis on sewage treatment plants." *Water Research* **2007**, *41*(3):613-619; doi:10.1016/j.watres.2006.11.014.

Lindberg RH, Fick J, and Tysklind M. "Screening of Antimycotics in Swedish Sewage Treatment Plants - Waters and Sludge." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.10.034.

Lindberg RH, Olofsson U, Rendahl P, Johansson MI, Tysklind M, and Andersson BAV. "Behavior of fluoroquinolones and trimethoprim during mechanical, chemical, and active sludge treatment of sewage water and digestion of sludge." *Environmental Science & Technology* **2006**, *40*(3):1042-1048; doi:10.1021/es0516211.

Lindberg RH, Wennberg P, Johansson MI, Tysklind M, and Andersson BAV. "Screening of Human Antibiotic Substances and Determination of Weekly Mass Flows in Five Sewage Treatment Plants in Sweden." *Environmental Science & Technology* **2005**, *39*(10):3421-3429.

Lindquist M. "The need for definitions in pharmacovigilance." *Drug Safety* **2007**, *30*(10):825-830.

Lindqvist N, Tuhkanen T, and Kronberg L. "Occurrence of acidic pharmaceuticals in raw and treated sewages and in receiving waters." *Water Research* **2005**, *39*(11):2219-2228; doi:10.1016/j.watres.2005.04.003.

Lindsey ME, Meyer MT, and Thurman EM. "Analysis of trace levels of sulfonamide and tetracycline antimicrobials in groundwater and surface water using solid-phase extraction and liquid chromatography/mass spectrometry." *Analytical Chemistry* **2001**, *73*(19):4640-4646.

Lindström A, Buerge IJ, Poiger T, Bergqvist PA, Muller MD, and Buser HR. "Occurrence and environmental behavior of the bactericide triclosan and its methyl derivative in surface waters and in wastewater." *Environmental Science & Technology* **2002**, *36*(11):2322-2329; doi:10.1021/es0114254.

Linenfelser BC, Vajda AM, and Norris DO. "Assessing estrogenic chemicals in wastewater and their effects on fish reproduction a collaborative effort between discharger and researcher." *Proceedings of the Water Environment Federation* **2007**, *2007*:3144-3160; doi:10.2175/193864707787973644.

Liney KE, Hagger JA, Tyler CR, Depledge MH, Galloway TS, and Jobling S. "Health effects in fish of long-term exposure to effluents from wastewater treatment works." *Environmental Health Perspectives* **2006**, *114*(1):81-89; doi:10.1289/ehp.8058.

Link N, Weber W, and Fussenegger M. "A novel generic dipstick-based technology for rapid and precise detection of tetracycline, streptogramin and macrolide antibiotics in food samples." *Journal of Biotechnology* **2007**, *128*(3):668-680; doi:10.1016/j.jbiotec.2006.11.011.

Linninger AA and Chakraborty A. "Pharmaceutical waste management under uncertainty." *Comp Chem Eng* **2001**, *25*:675-681.

Lintelmann J, Katayama A, Kurihara N, Shore L, and Wenzel A. "Endocrine disruptors in the environment - (IUPAC Technical Report)." *Pure and Applied Chemistry* **2003**, *75*(5):631-681; doi:10.1351/pac200375050631.

Lioy PJ, Pellizzari E, and Kris H. "Human Exposure Science." in *International Encyclopedia of Public Health*, Heggenhougen K and Quah S, Eds., Academic Press; Oxford, 2008, pp 469-477; doi:10.1016/B978-012373960-5.00280-X; http://www.sciencedirect.com/science/article/B98GG-4T7XCGF-7G/2/12d0b5d884c48512a3142a9381a3a0dc.

Lipinski C. "Poor aqueous solubility — an industry wide problem in drug discovery." *American Pharmaceutical Review* **2002**:82-85.

Lipinski C and Hopkins AL. "Navigating chemical space for biology and medicine." *Nature* **2004**, *432*:855-861; doi:10.1038/nature03193.

Liscio C, Magi E, Di Carro M, Suter MJF, and Vermeirssen ELM. "Combining passive samplers and biomonitors to evaluate endocrine disrupting compounds in a wastewater treatment plant by LC/MS/MS and bioassay analyses." *Environmental Pollution* **2009**, *157*(10):2716-2721; doi:10.1016/j.envpol.2009.04.034.

Lishman L, Smyth SA, Sarafin K, Kleywegt S, Toito J, Peart T*, et al.* "Occurrence and reductions of pharmaceuticals and personal care products and estrogens by municipal wastewater treatment plants in Ontario, Canada." *Science of the Total Environment* **2006**, *367*(2-3):544-558; doi:10.1016/j.scitotenv.2006.03.021.

Lissemore L, Hao C, Yang P, Sibley PK, Mabury S, and Solomon KR. "An exposure assessment for selected pharmaceuticals within a watershed in Southern Ontario." *Chemosphere* **2006**, *64*(5):717-729; doi:10.1016/j.chemosphere.2005.11.015.

Lissemore LI. "Pharmaceuticals in the Environment: Detection, Distribution, Exposure and Risk." Doctoral Dissertation, University of Guelph, Department of Environmental Biology, Guelph, Ontario, Canada, 2005. 207 pp.

Lister A, Regan C, Van Zwol J, and Van Der Kraak G. "Inhibition of egg production in zebrafish by fluoxetine and municipal effluents: a mechanistic evaluation." *Aquatic Toxicology* **2009**, *95*(4):320-329; doi:10.1016/j.aquatox.2009.04.011.

Little EE. "Behavioral measures of environmental." in *Biological Indicators of Aquatic Ecosystem Stress*, Adams SM, Ed., American Fisheries Society; Bethesda, MD, 2002, pp 431-472; www.afsbooks.org/ind.html.

Littleton J. "The future of plant drug discovery." *Expert Opinion on Drug Discovery* **2007**, *2*(5):673-683; doi:10.1517/17460441.2.5.673.

Litz NT, Müller J, and Böhmer W. "Occurrence of polycyclic musks in sewage sludge and their behaviour in soils and plants. Part 2: Investigation of polycyclic musks in soil and plants." *Journal of Soils and Sediments* **2007**, *7*(1):36-44; doi:10.1065/jss2006.10.187.2.

Liu B and Liu X. "Direct photolysis of estrogens in aqueous solutions." *Science of the Total Environment* **2004**, *320*(2-3):269-274; doi:10.1016/j.scitotenv.2003.08.005.

Liu C, Qiang Z, Tian F, and Zhang T. "Photodegradation of etridiazole by UV radiation during drinking water treatment." *Chemosphere* **2009**, *76*(5):609-615; doi:10.1016/j.chemosphere.2009.04.052.

Liu C, Zhang L, Li F, Wang Y, Gao Y, Li X*, et al.* "Dependence of Sulfadiazine Oxidative Degradation on Physicochemical Properties of Manganese Dioxides." *Industrial & Engineering Chemistry Research* **2009**, (48):23; doi:10.1021/ie900812j.

Liu CK and Wang CH. "Toxicological Studies of Some Drugs, in Cultured Eels (Anguilla japonica)." *COA (Counc Agric Fish Ser* **1987**, *12*:83-93.

Liu DQ and Hop CECA. "Strategies for characterization of drug metabolites using liquid chromatography-tandem mass spectrometry in conjunction with chemical derivatization and on-line H/D exchange approaches." *Journal of Pharmaceutical and Biomedical Analysis* **2005**, *37*(1):1-18; doi:10.1016/j.jpba.2004.09.003.

Liu F, Ying G-G, Tao R, Zhao J-L, Yang J-F, and Zhao L-F. "Effects of six selected antibiotics on plant growth and soil microbial and enzymatic activities." *Environmental Pollution* **2009**, *157*(5):1636-1642; doi:10.1016/j.envpol.2008.12.021.

Liu F, Ying G-G, Yang L-H, and Zhou Q-X. "Terrestrial ecotoxicological effects of the antimicrobial agent triclosan." *Ecotoxicology and Environmental Safety* **2009**, *72*(1):86-92; doi:10.1016/j.ecoenv.2008.06.009.

Liu G, Moon TW, Metcalfe CD, Lee LEJ, and Trudeau VL. "A teleost in vitro reporter gene assay to screen for agonists of the peroxisome proliferator-activated receptors." *Environmental Toxicology and Chemistry* **2005**, *24*(9):2260-2266; doi:10.1897/04-405R.1.

Liu H, Zhang G, Liu C-Q, and Xiang M. "The occurrence of chloramphenicol and tetracyclines in municipal sewage and the Nanming River, Guiyang City, China." *Journal of Environmental Monitoring* **2009**, *11*(6):1199-1205; doi:10.1039/b820492f.

Liu H, Zhang GP, and Liu CQ. "Determination of chloramphenicol and three tetracyclines by solid phase extraction and high performance liquid chromatography-ultraviolet detection." *Chinese Journal of Analytical Chemistry* **2007**, *35*(3):315-319.

Liu J, Carr S, Rinaldi K, and Chandler W. "Screening estrogenic oxidized by-products by combining ER binding and ultrafiltration." *Environmental Toxicology and Pharmacology* **2005**, *20*(2):269-278; doi:10.1016/j.etap.2005.01.008.

Liu JF, Liang X, Jiang GB, Cail YQ, Zhou QX, and Liu GG. "High performance liquid chromatography determination of 4-nonylphenol, 4-tert-octylphenol, and their short ethoxyl chain polyethoxylates in water samples using a microporous membrane liquid-liquid extraction sample pretreatment technique." *Journal of Separation Science* **2003**, *26*(9-10):823-828; doi:10.1002/jssc.200301455.

Liu QT. "Streamlining co-operation between industry and agency to enhance environmental risk assessment process." presented at Positioning phototransformation for environmental risk assessment of pharmaceuticals, Marcus Evans 2nd Pharma Environmental Forum, at Amsterdam 13-14 March, 2008.

Liu QT and Williams HE. "Kinetics and degradation products for direct photolysis of beta-blockers in water." *Environmental Science & Technology* **2007**, *41*(3):803-810; doi:10.1021/es0616130.

Liu Q-T, Cumming RI, and D. SA. "Photo-induced environmental depletion processes of β-blockers in river waters." *Photochemical & Photobiological Sciences* **2009**, *8*(6):768-777; doi:10.1039/b817890a.

Liu Q-T, Williams TD, Cumming RI, Holm G, Hetheridge MJ, and Murray-Smith RM. "Comparative Aquatic Toxicity of Propranolol and its Photodegraded Mixtures: Algae and Rotifer Screening." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2622-2631; doi:10.1897/09-071.1.

Liu R, Wilding A, Hibberd A, and Zhou JL. "Partition of endocrine-disrupting chemicals between colloids and dissolved phase as

determined by cross-flow ultrafiltration." *Environmental Science & Technology* **2005**, *39*(8):2753-2761; doi:10.1021/es0484404.

Liu R, Zhou JL, and Wilding A. "Microwave-assisted extraction followed by gas chromatography-mass spectrometry for the determination of endocrine disrupting chemicals in river sediments." *Journal of Chromatography A* **2004**, *1038*(1-2):19-26; doi:10.1016/j.chroma.2004.03.030.

Liu W, Zhao C, Zhang Y, Lu S, Liu J, and Xi R. "Preparation of Polyclonal Antibodies to a Derivative of 1-Aminohydantoin (AHD) and Development of an Indirect Competitive ELISA for the Detection of Nitrofurantoin Residue in Water." *Journal of Agricultural and Food Chemistry* **2007**, *55*(17):6829-6834; doi:10.1021/jf070620k.

Liu Y and Danielsson B. "Rapid fluorometric screening of antibiotics in seafood." *Microchimica Acta* **2006**, *153*(3-4):133-137; doi:10.1007/s00604-005-0421-9.

Liu Y, Gan X, Zhou B, Xiong B, Li J, Dong C*, et al.* "Photoelectrocatalytic Degradation of Tetracycline by Highly Effective TiO2 Nanopore Arrays Electrode." *Journal of Hazardous Materials* **2009**, *171*(1-3):678-683; doi:10.1016/j.jhazmat.2009.06.054.

Liu Y, Song Q-J, and Wang L. "Development and characterization of an amperometric sensor for triclosan detection based on electropolymerized molecularly imprinted polymer." *Microchemical Journal* **2009**, *91*(2):222-226; doi:10.1016/j.microc.2008.11.007.

Liu YL and Jia L. "Analysis of estrogens in water by magnetic octadecylsilane particles extraction and sweeping micellar electrokinetic chromatography." *Microchemical Journal* **2008**, *89*(1):72-76; doi:10.1016/j.microc.2007.12.003.

Liu Z-h, Ito M, Kanjo Y, and Yamamoto A. "Profile and removal of endocrine disrupting chemicals by using an ER/AR competitive ligand binding assay and chemical analyses." *Journal of Environmental Sciences* **2009**, *21*(7):900-906; doi:10.1016/S1001-0742(08)62356-6.

Liu Z-h, Kanjo Y, and Mizutani S. "Removal mechanisms for endocrine disrupting compounds (EDCs) in wastewater treatment -- physical means, biodegradation, and chemical advanced oxidation: A review." *Science of the Total Environment* **2009**, *407*(2):731-748; doi:10.1016/j.scitotenv.2008.08.039.

Liu Z-h, Kanjo Y, and Mizutani S. "Urinary excretion rates of natural estrogens and androgens from humans, and their occurrence and fate in the environment: A review." *Science of the Total Environment* **2009**, *407*(18):4975-4985; doi:10.1016/j.scitotenv.2009.06.001.

Llompart M, Garcia-Jares C, Salgado C, Polo M, and Cela R. "Determination of musk compounds in sewage treatment plant sludge samples by solid-phase microextraction." *Journal of Chromatography A* **2003**, *999*(1-2):185-193; doi:10.1016/S0021-9673(03)00449-7.

Llorens E, Matamoros V, Domingo V, Bayona JM, and García J. "Water quality improvement in a full-scale tertiary constructed wetland: Effects on conventional and specific organic contaminants." *Science of the Total Environment* **2009**, *407*(8):2517-2524; doi:10.1016/j.scitotenv.2008.12.042.

Lodovici M, Aiolli S, Monserrat C, Dolara P, Medica A, and Di Simplicio P. "Effect of a mixture of 15 commonly used pesticides on DNA levels of 8-hydroxy-2-deoxyguanosine and xenobiotic metabolizing enzymes in rat liver." *Journal of Environmental Pathology, Toxicology and Oncology* **1994**, *13*(3):163-168.

Löffler D, Meller M, Ternes T, and Römbke J. "Behaviour of selected human and veterinary pharmaceuticals in aquatic compartments and soil." 15 September, 2004, 148 pp; http://www.norman-network.com/public/library/docs/ternes_pharmaceutical_veterinary_behaviour.pdf.

Loffler D, Rombke J, Meller M, and Ternes TA. "Environmental Fate of Pharmaceuticals in Water/Sediment Systems." *Environmental Science & Technology* **2005**, *39*(14):5209-5218.

Loffler D and Ternes TA. "Analytical method for the determination of the aminoglycoside gentamicin in hospital wastewater via liquid chromatography-electrospray-tandem mass spectrometry." *Journal of Chromatography A* **2003**, *1000*(1-2):583-588; doi:10.1016/S0021-9673(03)00059-1.

Loffler D and Ternes TA. "Determination of acidic pharmaceuticals, antibiotics and ivermectin in river sediment using liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2003**, *1021*(1-2):133-144; doi:10.1016/j.chroma.2003.08.089.

Loftin KA, Adams CD, Meyer MT, and Surampalli R. "Effects of ionic strength, temperature, and pH on degradation of selected antibiotics." *Journal of Environmental Quality* **2008**, *37*(2):378-386; doi:10.2134/jeq2007.0230.

Loftin KA, Henny C, Adams CD, Surampali R, and Mormile MR. "Inhibition of microbial metabolism in anaerobic lagoons by selected sulfonamides, tetracyclines, lincomycin, and tylosin tartrate." *Environmental Toxicology and Chemistry* **2005**, *24*(4):782-788; doi:10.1897/04-093R.1.

Loganathan B, Phillips M, Mowery H, and Jones-Lepp TL. "Contamination profiles and mass loadings of select macrolide antibiotics and illicit drugs from a small urban wastewater treatment plant." *Chemosphere* **2009**, *75*(1):70-77; doi:10.1016/j.chemosphere.2008.11.047.

Loke M-L, Ingerslev F, Halling-Sorensen B, and Tjornelund J. "Stability of Tylosin A in manure containing test systems determined by high performance liquid chromatography." *Chemosphere* **2000**, *40*(7):759-765; doi:10.1016/S0045-6535(99)00450-6.

Loke M-L, Jespersen S, Vreeken R, Halling-Sorensen B, and Tjornelund J. "Determination of oxytetracycline and its degradation products by high-performance liquid chromatography-tandem mass spectrometry in manure-containing anaerobic test systems." *Journal of Chromatography B: Biomedical Sciences and Applications* **2003**, *783*(1):11-23; doi:10.1016/S1570-0232(02)00468-3.

Loke M-L, Tjornelund J, and Halling-Sorensen B. "Determination of the distribution coefficient (logKd) of oxytetracycline, tylosin A, olaquindox and metronidazole in manure." *Chemosphere* **2002**, *48*(3):351-361; doi:10.1016/S0045-6535(02)00078-4.

Lokhnauth JK and Snow NH. "Determination of parabens in pharmaceutical formulations by solid-phase microextraction-ion mobility spectrometry." *Analytical Chemistry* **2005**, *77*(18):5938-5946; doi:10.1021/ac0504013.

Lomovskaya O and Watkins W. "Inhibition of efflux pumps as a novel approach to combat drug resistance in bacteria." *Journal of Molecular Microbiology and Biotechnology* **2001**, *3*(2):225-236.

Long C and Crane M. "Environmental risk assessment of veterinary pharmaceuticals in the EU: Reply to Montforts and de Knecht." *Toxicology Letters* **2003**, *142*(3):219-225; doi:10.1016/S0378-4274(03)00070-5.

Long C and Crane M. "Environmental Risk Assessment of Veterinary Pharmaceuticals in the EU: Reply to Montforts and De Knecht." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp 289-298; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Longmore RB, Sundereland VB, and Sansom LN. "Analysis of a "Medidump" campaign in Australia." *International Journal of Pharmacy Practice* **1995**, *3*:186-191.

Loos R, Gawlik BM, Boettcher K, Locoro G, Contini S, and Bidoglio G. "Sucralose screening in European surface waters using a solid-phase extraction-liquid chromatography-triple quadrupole mass spectrometry method." *Journal of Chromatography A* **2009**, *1216*(7):1126-1131; doi:10.1016/j.chroma.2008.12.048.

Loos R, Gawlik BM, Locoro G, Rimaviciute E, Contini S, and Bidoglio G. "EU-wide survey of polar organic persistent pollutants in European river waters." *Environmental Pollution* **2009**, *157*(2):561-568; doi:10.1016/j.envpol.2008.09.020.

Loos R, Hanke G, and Eisenreich SJ. "Multi-component analysis of polar water pollutants using sequential solid-phase extraction followed by LC-ESI-MS." *Journal of Environmental Monitoring* **2003**, *5*(3):384-394; doi:10.1039/b300440f.

Loos R, Wollgast J, Huber T, and Hanke G. "Polar herbicides, pharmaceutical products, perfluorooctanesulfonate (PFOS), perfluorooctanoate (PFOA), and nonylphenol and its carboxylates and ethoxylates in surface and tap waters around Lake Maggiore in Northern Italy." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1469-1478; doi:10.1007/s00216-006-1036-7.

Loper CA, Crawford JK, Otto KL, Manning RL, Meyer MT, and Furlong ET. "Concentrations of selected pharmaceuticals and antibiotics in south-central Pennsylvania waters, March through September 2006." Survey UG, 2007. 101 pp; http://pubs.usgs.gov/ds/300/.

Lopes C, Charles S, Vollat B, and Garric J. "Toxicity of ivermectin on Cladocerans: comparison of toxic effects on Daphnia and Ceriodaphnia species." *Environmental Toxicology and Chemistry* **2009**, *28*(10):2160-2166; doi:10.1897/08-607.1.

Lopez A, Bozzi A, Mascolo G, Ciannarella R, and Passino R. "UV and H_2O_2/UV degradation of a pharmaceutical intermediate in aqueous solution." *Annali di Chimica* **2002**, *92*(1-2):41-51.

Lopez A, Bozzi A, Mascolo G, and Kiwi J. "Kinetic investigation on UV and UV/H_2O_2 degradations of pharmaceutical intermediates

in aqueous solution." *Journal of Photochemistry and Photobiology A: Chemistry* **2003**, *156*(1-3):121-126; doi:10.1016/S1010-6030(02)00435-5.

Lopez CM, Sassone AH, Girault MER, Lenzken CS, Lepori ECV, and Roses OE. "Quantification of cotinine in plasma and urine by HPLC-UV detection." *Journal of Liquid Chromatography & Related Technologies* **2004**, *27*(15):2371-2379.

López de Alda MJ and Barceló D. "Determination of steroid sex hormones and related synthetic compounds considered as endocrine disrupters in water by liquid chromatography-diode array detection-mass spectrometry." *Journal of Chromatography A* **2000**, *892*(1-2):391-406.

López de Alda MJ and Barceló D. "Review of analytical methods for the determination of estrogens and progestogens in waste waters." *Fresenius Journal of Analytical Chemistry* **2001**, *371*(4):437-447; doi:10.1007/s002160101027.

López de Alda MJ and Barceló D. "Use of solid-phase extraction in various of its modalities for sample preparation in the determination of estrogens and progestogens in sediment and water." *Journal of Chromatography A* **2001**, *938*(1-2):145-153; doi:10.1016/S0021-9673(01)01223-7.

López de Alda MJ and Barceló D. "Determination of steroid sex hormones and related synthetic compounds considered as endocrine disrupters in water by fully automated on-line solid-phase extraction-liquid chromatography-diode array detection." *Journal of Chromatography A* **2001**, *911*(2):203-210; doi:10.1016/S0021-9673(01)00517-9.

López de Alda MJ, Diaz-Cruz S, Petrovic M, and Barceló D. "LC-MS and LC-MS-MS of selected emerging pollutants (steroid sex hormones, drugs and surfactants) in the aquatic environment." in *New horizons and challenges in environmental analysis and monitoring*, Namieśnik J, Chrzanowski W and Żmihewska P, Eds., Gdansk, Poland, 2003, Chapter 11, pp 181-201; http://www.pg.gda.pl/chem/CEEAM/Dokumenty/CEEAM_ksiazka/New_ANG.htm.

López de Alda MJ, Díaz-Cruz S, Petrovic M, and Barceló D. "Liquid chromatography-(tandem) mass spectrometry of selected emerging pollutants (steroid sex hormones, drugs and alkylphenolic surfactants) in the aquatic environment." *Journal of Chromatography A* **2003**, *1000*(1-2):503-526; doi:10.1016/S0021-9673(03)00509-0.

López de Alda MJ, Gil A, Paz E, and Barceló D. "Occurrence and analysis of estrogens and progestogens in river sediments by liquid chromatography-electrospray-mass spectrometry." *Analyst* **2002**, *127*(10):1299-1304; doi:10.1039/b207658f.

Lopez EM. "In-vitro assessment of estrogenicity in wastewater treatment plant effluents using cultured liver and testis from fathead minnow." Doctoral Dissertation, University of Colorado at Boulder, Boulder, CO, 2008. 171 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2331205,FM=9,SEARCH=MD.GenericSearch.

López-Gonzálvez A, Ruiz MA, and Barbas C. "Validated flow-injection method for rapid aluminium determination in anti-perspirants." *Journal of Pharmaceutical and Biomedical Analysis* **2008**, *48*(2):340-346; doi:10.1016/j.jpba.2008.01.029.

Loraine GA and Pettigrove ME. "Seasonal Variations in Concentrations of Pharmaceuticals and Personal Care Products in Drinking Water and Reclaimed Wastewater in Southern California." *Environmental Science & Technology* **2006**, *40*(3):687-695; doi:10.1021/es051380x.

Lord H and Pawliszyn J. "Microextraction of drugs." *Journal of Chromatography A* **2000**, *902*(1):17-63; doi:10.1016/S0021-9673(00)00836-0.

Lorenzen A, Burnison K, Servos M, and Topp E. "Persistence of endocrine disrupting chemicals in agricultural soils." *Journal of Environmental Engineering and Science* **2006**, *5*(3):211-219; doi:10.1139/S05-016.

Lorenzen A, Hendel JG, Conn KL, Bittman S, Kwabiah AB, Lazarovitz G*, et al.* "Survey of hormone activities in municipal biosolids and animal manures." *Environmental Toxicology* **2004**, *19*(3):216-225; doi:10.1002/tox.20014.

Lorenzen S, Chapman R, Hendel JG, and Topp E. "Persistence and pathways of testosterone dissipation in agricultural soil." *Journal of Environmental Quality* **2005**, *34*(3):854-860; doi:10.2134/jeq2004.0330.

Lores M, Llompart M, Sanchez-Prado L, Garcia-Jares C, and Cela R. "Confirmation of the formation of dichlorodibenzo-p-dioxin in the photodegradation of triclosan by photo-SPME." *Analytical and Bioanalytical Chemistry* **2005**, *381*(6):1294-1298; doi:10.1007/s00216-004-3047-6.

Loretz L, Api AM, Barraj L, Burdick J, Davis DA, Dressler W*, et al.* "Exposure data for personal care products: Hairspray, spray

perfume, liquid foundation, shampoo, body wash, and solid antiperspirant." *Food and Chemical Toxicology* **2006**, *44*(12):2008-2018; doi:10.1016/j.fct.2006.06.029.

Lorphensri O, Intravijit J, Sabatini DA, Kibbey TCG, Osathaphan K, and Saiwan C. "Sorption of acetaminophen, 17α-ethynyl estradiol, nalidixic acid, and norfloxacin to silica, alumina, and a hydrophobic medium." *Water Research* **2006**, *40*(7):1481-1491; doi:10.1016/j.watres.2006.02.003.

Lorphensri O, Sabatini DA, Kibbey TCG, Osathaphan K, and Saiwan C. "Sorption and transport of acetaminophen, 17α-ethynyl estradiol, nalidixic acid with low organic content aquifer sand." *Water Research* **2007**, *41*(10):2180-2188; doi:10.1016/j.watres.2007.01.057.

Lorusso D, Di Stefano A, Carone V, Fagotti A, Pisconti S, and Scambia G. "Pegylated liposomal doxorubicin-related palmar-plantar erythrodysesthesia ('hand-foot' syndrome)." *Annals of Oncology* **2007**, *18*(7):1159-1164; doi:10.1093/annonc/mdl477.

Lotti M and Nicotera P. "Toxicology: A risky business." *Nature* **2002**, *416*(6880):481-481; doi:10.1038/416481a.

Louvet JN, Giammarino C, Potier O, and Pons MN. "Adverse effects of erythromycin on the structure and chemistry of activated sludge." *Environmental Pollution* **2009**, *In Press*; doi:10.1016/j.envpol.2009.10.021.

Lowrance S. "Returned pharmaceutical products." USEPA, RCRA Online # 11606, 16 May 1991. 2 pp; http://yosemite.epa.gov/osw/rcra.nsf/ea6e50dc6214725285256bf00063269d/a3a7a7a8f297438b8525670f006be5d8!OpenDocument.

Lu H, Ma H, and Tao G. "Spectrophotometric determination of triclosan in personal care products." *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* **2009**, *73*(5):854-857; doi:10.1016/j.saa.2009.04.007.

Lu J. "Fundamental studies of the halogenation of phenolic compounds during water chlorination." Doctoral Dissertation, University of Washington, 2007. 157 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2231211,FM=9,SEARCH=MD.Generic Search.

Lu J and Huang Q. "Removal of Acetaminophen Using Enzyme-Mediated Oxidative Coupling Processes: II. Cross-Coupling with Natural Organic Matter." *Environmental Science & Technology* **2009**, *43*(18):7068-7073; doi:10.1021/es9001295.

Lu J, Huang Q, and Mao L. "Removal of Acetaminophen Using Enzyme-Mediated Oxidative Coupling Processes: I. Reaction Rates and Pathways." *Environmental Science & Technology* **2009**, *43*(18):7062-7067; doi:10.1021/es9002422.

Lu J and Korshin GV. "A spectroscopic study of the bromination of the endocrine disruptor ethynylestradiol." *Chemosphere* **2008**, *72*(3):504-508; doi:10.1016/j.chemosphere.2008.02.055.

Lu TK and Collins JJ. "Engineered bacteriophage targeting gene networks as adjuvants for antibiotic therapy." *Proceedings of the National Academy of Sciences* **2009**, *106*(12):4629-4634; doi:10.1073/pnas.0800442106.

Lubick N. "Composting industrial waste." *Environmental Science & Technology* **2006**, *40*(23):7110-7111.

Lubick N. "Artificial sweetener persists in the environment." *Environmental Science & Technology* **2008**, *42*(9):3125.

Lubick N. "Genes help predict drugs' environmental impacts." *Environmental Science & Technology* **2008**, *42*(15):5382-5383; doi:10.1021/es801614k.

Lubick N. "Cocaine from drains in Spain." *Environmental Science & Technology* **2008**, *42*(18):6777; doi:10.1021/es8020606.

Lubick N. "Opening the "green pharmacy"." *Environmental Science & Technology* **2008**:8620-8621; doi:10.1021/es802555w.

Lubick N. "Faster, cheaper search for antibiotics in the field." *Environmental Science & Technology* **2008**, (July 9).

Lubick N. "Drinking water contamination mapped Wide-ranging survey reveals low levels of some drugs and pesticides in US tap water." *Nature* **2009**; doi:10.1038/news.2008.1310.

Lubick N. "India's drug problem: Chemists show how waste-water contamination affects ecosystem." *Nature* **2009**, *457*:640-641; doi:10.1038/457640a.

Lubick N. "Artificial sweetener makes ideal tracer." *Environmental Science & Technology* **2009**, *43*(12):4220;

doi:10.1021/es901127x.

Lubick N. "Recalibrating the human carbon footprint from wastewater." *Environmental Science & Technology* **2009**, *43*(15):5552; doi:10.1021/es9016393.

Lucas SD and Jones DL. "Biodegradation of estrone and 17β-estradiol in grassland soils amended with animal wastes." *Soil Biology and Biochemistry* **2006**, *38*(9):2803-2815; doi:10.1016/j.soilbio.2006.04.033.

Lucas SD and Jones DL. "Urine enhances the leaching and persistence of estrogens in soils." *Soil Biology and Biochemistry* **2009**, *41*(2):236-242; doi:10.1016/j.soilbio.2008.10.022.

Luckenbach T, Corsi I, and Epel D. "Fatal attraction: Synthetic musk fragrances compromise multixenobiotic defense systems in mussels." *Marine Environmental Research* **2004**, *58*(2-5):215-219; doi:10.1016/j.marenvres.2004.03.017.

Luckenbach T and Epel D. "Nitromusk and polycyclic musk compounds as long-term inhibitors of cellular xenobiotic defense systems mediated by multidrug transporters." *Environmental Health Perspectives* **2005**, *113*(1):17-24; doi:10.1289/ehp.7301.

Luckenbach T and Epel D. "Synthetic musk compounds: Luckenbach responds." *Environmental Health Perspectives* **2005**, *113*(12):A803-A804.

Luckenbach T and Epel D. "ABCB- and ABCC-type transporters confer multixenobiotic resistance and form an environment-tissue barrier in bivalve gills." *American Journal of Physiology - Regulatory, Integrative and Comparative Physiology* **2008**, *294*(6):R1919-1929; doi:10.1152/ajpregu.00563.2007.

Lumaret J-P, Alvinerie M, Hempel H, Schallnaß H-J, Claret D, and Römbke J. "New screening test to predict the potential impact of ivermectin-contaminated cattle dung on dung beetles." *Veterinary Research* **2007**, *38*:15-24; doi:10.1051/vetres:2006041.

Lumaret J-P and Errouissi F. "Use of anthelmintics in herbivores and evaluation of risks for the non target fauna of pastures." *Veterinary Research* **2002**, *33*:547-562; doi:10.1051/vetres:2002038.

Lundgren A. "Assessment in the chemicals control of environmental hazards and risks." in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 7, pp 104-114; http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

Lundgren MS and Novak PJ. "Quantification of phytoestrogens in industrial waste streams." *Environmental Toxicology and Chemistry* **2009**, *28*(11):2318-2323; doi:10.1897/09-029.1.

Lunestad BT. "Fate and effects of antibacterial agents in aquatic environments." in Proceedings of the Conference on Chemotherapy in Aquaculture: From theory to reality, Paris, France, Office International des Epizooties, 1992, 152-161 pp.

Lunestad BT and Goksøyr J. "Reduction in the antibacterial effect of oxytetracycline in sea water by complex formation with magnesium and calcium." *Diseases of Aquatic Organisms* **1990**, *9*:67-72.

Lunestad BT, Samuelsen OB, Fjelde S, and Ervik A. "Photostability of eight antibacterial agents in seawater." *Aquaculture* **1995**, *134*(3-4):217-225; doi:10.1016/0044-8486(95)00065-A.

Lunn G. "Capillary electrophoresis methods for pharmaceutical analysis." New York, NY, Wiley-Interscience, 2000, xxii + 1544 pp; doi:10.1016/S0039-9140(01)00355-1; http://www.amazon.com/Capillary-Electrophoresis-Methods-Pharmaceutical-Analysis/dp/0471331880.

Lunn G and Sansone EB. "Reductive destruction of dacarbazine, procarbazine hydrochloride, isoniazid, and iproniazid." *American Journal of Health-System Pharmacy* **1987**, *44*(11):2519-2524.

Lunn G, Sansone EB, Andrews AW, and Hellwig LC. "Degradation and disposal of some antineoplastic drugs." *Journal of Pharmaceutical Sciences* **1989**, *78*(8):652-659; doi:10.1002/jps.2600780811.

Lurling M, Sargant E, and Roessink I. "Life-history consequences for Daphnia pulex exposed to pharmaceutical carbamazepine." *Environmental Toxicology* **2006**, *21*(2):172-180; doi:10.1002/tox.20171.

Lusk JL, Norwood B, and Pruitt R. "Consumer Demand for a Ban on Antibiotic Drug Use in Pork Production." US Department of Agricultural Economics, 2004, 44 pp.

Lusk JL, Norwood FB, and Pruitt JR. "Consumer Demand for a Ban on Antibiotic Drug Use in Pork Production." *American Journal of Agricultural Economics* **2006**, *88*(4):1015-1033; doi:10.1111/j.1467-8276.2006.00913.x.

Luttmer W, Majoor E, and Swart B. "Verminderen lozingen van medicijnresten door deelstroomzuivering van urine [Reduce discharges of drug residues part by purification of urine flow]." 21 February, 2006, 9 pp; http://themas.stowa.nl/Uploads/nieuwe%20sanitatie/projecten/Sleen%20-%20De%20Schoel/206140_0602%20Projectplan%20'De%20Schoel'%20130306.pdf.

Lutz F and Alber J. "Zur Bewertung von Arzneimittelrückständen im Festmist von Veterinärkliniken Eine Literaturauswertung [Valuation of drug residues in solid manure from veterinarian complex hospitals. A literature study]." *Tierärztliche Praxis Großtiere* **2004**, *32*(4):180-190.

Lutz I and Kloas W. "Amphibians as a model to study endocrine disruptors: I. Environmental pollution and estrogen receptor binding." *Science of the Total Environment* **1999**, *225*(1-2):49-57; doi:10.1016/S0048-9697(99)80016-3.

Lv X, Shao J, Song M, Zhou Q, and Jiang G. "Vitellogenic effects of 17β-estradiol in male Chinese loach (Misgurnus anguillicaudatus)." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2006**, *143*(1):127-133; doi:10.1016/j.cbpc.2006.01.002.

Lv X, Zhou Q, Song M, Jiang G, and Shao J. "Vitellogenic responses of 17β-estradiol and bisphenol A in male Chinese loach (Misgurnus anguillicaudatus)." *Environmental Toxicology and Pharmacology* **2007**, *24*(2):155-159; doi:10.1016/j.etap.2007.04.007.

Lyberatos G and Andreozzi R. "Special issue - Pharmaceuticals in the environment – Foreword." *Journal of Hazardous Materials* **2005**, *122*(3):193; doi:10.1016/j.jhazmat.2005.03.006.

Lyle-Fritch LP, Romero-Beltran E, and Paez-Osuna F. "A survey on use of the chemical and biological products for shrimp farming in Sinaloa (NW Mexico)." *Aquacultural Engineering* **2006**, *35*(2):135-146; doi:10.1016/j.aquaeng.2005.09.006.

Lynch JC and McCullough T. "The Collection and Disposal of Waste Medications." *US Pharmacist* **2008**, *33*(6):HS-20-HS-24.

Lynn RK, Smith RG, Thompson RM, Deinzer ML, Griffin D, and Gerber N. "Characterization of glucuronide metabolites of carbamazepine in human urine by gas chromatography and mass spectrometry." *Drug Metabolism and Disposition* **1978**, *6*(4):494-501.

Lynn SE, Egar JM, Walker BG, Sperry TS, and Ramenofsky M. "Fish on Prozac: a simple, noninvasive physiology laboratory investigating the mechanisms of aggressive behavior in Betta splendens." *Advances in Physiology Education* **2007**, *31*(4):358-363; doi:10.1152/advan.00024.2007.

Lyssimachou A and Arukwe A. "Alteration of Brain and Interrenal StAR Protein, P450scc, and Cyp11β mRNA Levels in Atlantic Salmon after Nominal Waterborne Exposure to the Synthetic Pharmaceutical Estrogen Ethynylestradiol." *Journal of Toxicology and Environmental Health, Part A Current Issues* **2007**, *70*(7):606 - 613.

Lyssimachou A, Jenssen BM, and Arukwe A. "Brain cytochrome P450 aromatase gene isoforms and activity levels in atlantic salmon after waterborne exposure to nominal environmental concentrations of the pharmaceutical ethynylestradiol and antifoulant tributyltin." *Toxicological Sciences* **2006**, *91*(1):82-92; doi:10.1093/toxsci/kfj136.

Ma M, Rao K, and Wang Z. "Occurrence of estrogenic effects in sewage and industrial wastewaters in Beijing, China." *Environmental Pollution* **2007**, *147*(2):331-336; doi:10.1016/j.envpol.2006.05.032.

Ma M, Zhang H-S, Xiao L-Y, Xiao L, Peng W, Cui H-R*, et al.* "Quaternary ammonium chitosan derivative dynamic coating for the separation of veterinary sulfonamide residues by CE with field-amplified sample injection." *Electrophoresis* **2007**, *28*(22):4091-4100; doi:10.1002/elps.200700317.

Ma T, Wan X, Huang Q, Wang Z, and Liu J. "Biomarker responses and reproductive toxicity of the effluent from a Chinese large sewage treatment plant in Japanese medaka (Oryzias latipes)." *Chemosphere* **2005**, *59*(2):281-288; doi:10.1016/j.chemosphere.2004.11.033.

Ma T, Wang Z, and Gong S. "Comparative sensitivity in Chinese rare minnow (Gobiocypris rarus) and Japanese Medaka (Oryzias latipes) exposed to ethinylestradiol." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2007**, *42*(7):889-894; doi:10.1080/10934520701366913.

Ma W, Yang M, Wang J, Qi R, and Ren L. "Treatment of Antibiotics Wastewater Utilizing Successive Hydrolysis, Denitrification and Nitrification." *Environmental Technology* **2002**, *22*(6):685-694.

Ma WL, Qi R, Zhang Y, Wang J, Liang CZ, and Yang M. "Performance of a successive hydrolysis, denitrification and nitrification system for simultaneous removal of COD and nitrogen from terramycin production wastewater." *Biochemical Engineering Journal* **2009**, *45*(1):30-34; doi:10.1016/j.bej.2009.02.001.

Maack G and Segner H. "Life-stage-dependent sensitivity of zebrafish (Danio rerio) to estrogen exposure." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2004**, *139*(1-3):47-55; doi:10.1016/j.cca.2004.09.004.

Macarthur D. "Any old drugs? Two schemes for the disposal of unwanted medicines in Europe." *The Pharmaceutical Journal* **2000**, *264*(7082):223-224.

Macauley JJ, Qiang Z, Adams CD, Surampalli R, and Mormile MR. "Disinfection of swine wastewater using chlorine, ultraviolet light and ozone." *Water Research* **2006**, *40*(10):2017-2026; doi:10.1016/j.watres.2006.03.021.

Macedo-Sousa JA, Soares AMVM, and Tarazona JV. "A conceptual model for assessing risks in a Mediterranean Natura 2000 Network site." *Science of the Total Environment* **2009**, *407*(3):1224-1231; doi:10.1016/j.scitotenv.2008.09.052.

MacGillivray AR. "Emerging Contaminants of Concern in the Delaware River Basin." Delaware River Basin Commission, West Trenton, New Jersey, 2007, 20 pp; http://www.state.nj.us/drbc/EmergingContaminantsFeb2007.pdf.

Macià A, Borrull F, Aguilar C, and Calull M. "Improving sensitivity by large-volume sample stacking using the electroosmotic flow pump to analyze some nonsteroidal anti-inflammatory drugs by capillary electrophoresis in water samples." *Electrophoresis* **2003**, *24*(16):2779-2787; doi:10.1002/elps.200305542.

Macia A, Borrull F, Calull M, and Aguilar C. "Determination of some acidic drugs in surface and sewage treatment plant waters by capillary electrophoresis-electrospray ionization-mass spectrometry." *Electrophoresis* **2004**, *25*(20):3441-3449; doi:10.1002/elps.200406067.

Macià A, Borrull F, Calull M, and Aguilar C. "Analysis of Nonsteroidal Anti-inflammatory Drugs in Water Samples Using Microemulsion Electrokinetic Capillary Chromatography Under pH-Suppressed Electroosmotic Flow with an On-Column Preconcentration Technique." *Chromatographia* **2006**, *63*(3):149-154; doi:10.1365/s10337-006-0723-z.

Macià A, Borrull F, Calull M, and Aguilar C. "Capillary electrophoresis for the analysis of non-steroidal anti-inflammatory drugs." *TRAC Trends in Analytical Chemistry* **2007**, *26*(2):133-153; doi:10.1016/j.trac.2006.11.011.

Mack PM. "Emerging Contaminants in Metropolitan Chicago Rivers." DuPage County, IL, September, 2008, 84 pp.

MacKay AA and Seremet DE. "Probe Compounds to Quantify Cation Exchange and Complexation Interactions of Ciprofloxacin with Soils." *Environmental Science & Technology* **2008**, *42*(22):8270-8276.

Mackay D and Milford L. "Exposure assessment and modeling in the aquatic environment." in *The Toxicology of Fishes*, Di Giulio RT and Hinton DE, Eds., CRC Press; 2008, Chapter 14, pp 645-658; http://books.google.com/books?hl=en&lr=&id=aOfEXLNMLugC&oi=fnd&pg=PA9&dq=aquatic+exposure+tissue+drug+OR+pharmaceutical&ots=2HpLRHlBET&sig=O5G-7sERZ46oFKZ1xLInLvbi8HY.

Mackay DW, Holmes PJ, and Redshaw CJ. "The application of bioassay techniques to water pollution problems — The United Kingdom experience." *Hydrobiologia* **1989**, *188-189*(1):77-86; doi:10.1007/BF00027773.

MacKenzie CA, Berrill M, Metcalfe C, and Pauli BD. "Gonadal differentiation in frogs exposed to estrogenic and antiestrogenic compounds." *Environmental Toxicology and Chemistry* **2003**, *22*(10):2466-2475; doi:10.1897/02-173.

Mackie RI, Koike S, Krapac I, Chee-Sanford J, Maxwell S, and Aminov RI. "Tetracycline residues and tetracycline resistance genes in groundwater impacted by swine production facilities." *Animal Biotechnology* **2006**, *17*(2):157-176; doi:10.1080/10495390600956953.

Mackridge AJ and Marriott JF. "Unused medicines in primary care: a postal questionnaire." *International Journal of Pharmacy Practice* **2006**, *14*(Supp 1):A23.

Mackridge AJ and Marriott JF. "An analysis of unused medicines returned to community pharmacies and general practice surgeries." *International Journal of Pharmacy Practice* **2006**, *14*(Supp 2):B75-76.

Mackridge AJ and Marriott JF. "Returned medicines: waste or a wasted opportunity?" *Journal of Public Health* **2007**, *29*(3):1-5.

Mackridge AJ, Marriott JF, and Langley CA. "Unused medicines with potential for misuse or abuse in primary care." *International Journal of Pharmacy Practice* **2007**, *15*(3):229-233; doi:10.1211/ijpp.15.3.0010.

MacLatchy D, Cushnie W, Rendell J, and Currie S. "Ethinylestradiol depresses gonadal steroidogenesis downstream of the rate-limiting step in mummichog (Fundulus heteroclitus)." *Comparative Biochemistry and Physiology, Part A: Molecular & Integrative Physiology* **2007**, *146*(4, Supplement 1):S176.

Macleod SL, McClure EL, and Wong CS. "Laboratory calibration and field deployment of the polar organic chemical integrative sampler for pharmaceuticals and personal care products in wastewater and surface water." *Environmental Toxicology and Chemistry* **2007**, *26*(12):2517-2529; doi:10.1897/07-238.1.

MacLeod SL, Sudhir P, and Wong CS. "Stereoisomer analysis of wastewater-derived β-blockers, selective serotonin re-uptake inhibitors, and salbutamol by high-performance liquid chromatography–tandem mass spectrometry." *Journal of Chromatography A* **2007**, *1170*(1-2):23-33; doi:10.1016/j.chroma.2007.09.010.

MacLeod SL and Wong CS. "Loadings, trends, comparisons, and fate of achiral and chiral pharmaceuticals in wastewaters from urban tertiary and rural aerated lagoon treatments." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.09.056.

Macri A and Sbardella E. "Toxicological evaluation of nitrofurazone and furaltadone on Selenastrum capricornutum, Daphnia magna, and Musca domestica." *Ecotoxicology and Environmental Safety* **1984**, *8*(2):101-105.

Madden JC, Enoch SJ, Hewitt M, and Cronin MTD. "Pharmaceuticals in the Environment: Good Practice in Predicting Acute Ecotoxicological Effects." *Toxicology Letters* **2009**, *185*(2):85-101; doi:10.1016/j.toxlet.2008.12.005.

Madej K. "Microwave-assisted and cloud-point extraction in determination of drugs and other bioactive compounds." *TRAC Trends in Analytical Chemistry* **2009**, *28*(4):436-446; doi:10.1016/j.trac.2009.02.002.

Maden M. "Retinoic acid in development and regeneration." *Journal of Bioscience* **1996**, *21*(3):299-312.

Mader R, Rizovski B, Steger G, Wachter A, Kotz R, and Rainer H. "Exposure of oncologic nurses to methotrexate in the treatment of osteosarcoma." *Archives of Environmental Health* **1996**, *51*(4):310-314.

Madsen E and Larsen H. "Excretion of mutagens in sweat from humans treated with anti-neoplastic drugs." *Cancer Letters* **1988**, *40*(2):199-202; doi:10.1016/0304-3835(88)90011-0.

Madureira TV, Barreiro JC, Rocha MJ, Cass QB, and Tiritan ME. "Pharmaceutical trace analysis in aqueous environmental matrices by liquid chromatography - ion trap tandem mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(42):7033-7042; doi:10.1016/j.chroma.2009.08.060.

Magee AM and Quinn JP. "Antibiotic resistance in the bacteria of a remote upland river catchment." *Letters in Applied Microbiology* **1991**, *13*(3):145-149; doi:10.1111/j.1472-765X.1991.tb00593.x.

Magnér J, Alsberg T, and Broman D. "Bag-SPE—a convenient extraction method for screening of pharmaceutical residues in influent and effluent water from sewage treatment plants." *Analytical and Bioanalytical Chemistry* **2009**, *395*(5):1481-1489; doi:10.1007/s00216-009-3099-8.

Magnusson N and Gabrielsson J. "Miljöklassificering av läkemedel - ett styrmedel för att minska läkemedels miljöpåverkan? [Environmental classification of drugs
- a political instrument to reduce the environmental impact of pharmaceuticals?]." Malmö Högskola, 2009. 72 pp; http://195.178.227.4/handle/2043/8414.

Mahedero Garcia MC, Diez NM, Gil DB, and Lopez FS. "Determination of sulphathiazole and sulphanilamide by photochemically induced fluorescence and first-derivative fluorescence." *Journal of Pharmaceutical and Biomedical Analysis* **2005**, *38*(2):349-354; doi:10.1016/j.jpba.2004.12.024.

Mahnik SN, Lenz K, Weissenbacher N, Mader RM, and Fuerhacker M. "Fate of 5-fluorouracil, doxorubicin, epirubicin, and daunorubicin in hospital wastewater and their elimination by activated sludge and treatment in a membrane-bio-reactor system." *Chemosphere* **2007**, *66*(1):30-37; doi:10.1016/j.chemosphere.2006.05.051.

Mahnik SN, Rizovski B, Fuerhacker M, and Mader RM. "Determination of 5-fluorouracil in hospital effluents." *Analytical and Bioanalytical Chemistry* **2004**, *380*(1):31-35; doi:10.1007/s00216-004-2727-6.

Mahnik SN, Rizovski B, Fuerhacker M, and Mader RM. "Development of an analytical method for the determination of anthracyclines in hospital effluents." *Chemosphere* **2006**, *65*(8):1419-1425; doi:10.1016/j.chemosphere.2006.03.069.

Mahoney SH. "PPCPs' double life." Water & Wastewater News, 2006, 1 September http://wwn-online.com/articles/51625.

Maier DE. "Concerns over pharmaceutical traits in grains and oilseeds." Purdue University - Grain Quality Task Force, 2 July, 2002, 4 pp; http://www.ces.purdue.edu/extmedia/GQ/GQ-47.pdf.

Maier WE and Herman JR. "Pharmacology and Toxicology of Ethinyl Estradiol and Norethindrone Acetate in Experimental Animals." *Regulatory Toxicology and Pharmacology* **2001**, *34*(1):53-61; doi:10.1006/rtph.2001.1483.

Maillard E. "Analyse du risque écotoxicologique d'insecticides et de médicaments dans l'environnement aquatique." Masters Dissertation, Ecole Polytechnique Federale de Lausanne, Section Sciences et Ingenierie de l'Environnement SSIE-EPFL, Lausanne, Switzerland, 2006. 134 pp; http://www.unil.ch/webdav/site/ipteh/shared/Recherche/Master_06/Master_Emmanuel_Maillard.pdf.

Maine Department of Environmental Protection "Chemicals of High Concern List." 2009, http://www.maine.gov/dep/oc/safechem/highconcern/.

Majewski AR, Blanchfield PJ, Palace VP, and Wautier KG. "Waterborne 17α-ethynylestradiol affects aggressive behaviour of male fathead minnows (Pimephales promelas) under artificial spawning conditions." *Water Quality Research Journal of Canada* **2002**, *37*(4):697-710.

Majima K, Fukui T, Yuan J, Wang G, and Matsumoto K. "Quantitative Measurement of 17β-estradiol and Estriol in River Water by Time-Resolved Fluoroimmunoassay." *Analytical Sciences* **2002**, *18*(8):869-874.

Majumdar S, Bhaumik D, and Sirkar KK. "Performance of commercial-size plasmapolymerized PDMS-coated hollow fiber modules in removing VOCs from N2/air." *Journal of Membrane Science* **2003**, *214*(2):323-330; doi:10.1016/S0376-7388(02)00545-8.

Makarewicz JC, Damaske E, Lewis TW, and Merner M. "Trend analysis reveals a recent reduction in mirex concentrations in coho (Oncorhynchus kisutch) and chinook (O-tshawytscha) salmon from Lake Ontario." *Environmental Science & Technology* **2003**, *37*(8):1521-1527; doi:10.1021/es026020d.

Makoto Y, Arata H, Koya K, and Yutaka S. "Sorption Characteristics of the Human Antibiotics to Activated Sludge." *Environmental Engineering Research* **2006**, *43*:95-104.

Makowski A, Sobczak A, Wcislo D, Adamek E, Baran W, and Kostecki IM. "Fotokatalityczna degradacja doksycykliny w roztworach wodnych [Photocatalytic degradation of doxycycline in water solutions]." *Proceedings of ECOpole* **2009**, *3*(1):87-94.

Malathum K and Murray BE. "Vancomycin-resistant enterococci: recent advances in genetics, epidemiology and therapeutic options." *Drug Resistance Updates* **1999**, *2*(4):224-243; doi:10.1054/drup.1999.0098.

Malato S. "Removal of Emerging Contaminants in Waste-water Treatment: Removal by Photo-catalytic Processes." in *Emerging Contaminants from Industrial and Municipal Waste*, Springer; Berlin/Heidelberg, 2008, pp 177-197; doi:10.1007/698_5_094; http://dx.doi.org/10.1007/698_5_094.

Malintan NT and Mohd MA. "Determination of sulfonamides in selected Malaysian swine wastewater by high-performance liquid chromatography." *Journal of Chromatography A* **2006**, *1127*(1-2):154-160; doi:10.1016/j.chroma.2006.06.005.

Mallett SR, Danta RC, Benson JR, Corey AD, Davidner AA, and Regla P. "System for sorting discarded and spent pharmaceutical items." **2007**, (11/417,901) http://www.google.com/patents?hl=en&lr=&vid=USPAT7311207&id=liahAAAAEBAJ&oi=fnd&dq=c+daughton+pharmaceutical+OR+ppcps+OR+phacs.

Mallett SR, Danta RC, Benson JR, Corey AD, Davidner AA, and Regla P. "Handheld medical waste sorting method." **2007**, (11/347,840) http://www.google.com/patents?hl=en&lr=&vid=USPAT7303081&id=d9-fAAAAEBAJ&oi=fnd&dq=c+daughton+pharmaceutical+OR+ppcps+OR+phacs.

Mallett SR, Danta RC, Benson JR, Corey AD, Davidner AA, and Regla P. "Method for sorting discarded and spent pharmaceutical items." **2008**, (11/417869).

Mallett SR, Danta RC, Regla P, Corey AD, and Davidner AA. "Disposable container for use in a waste sorting system." **2008**, (10/946,161) http://www.google.com/patents?hl=en&lr=&vid=USPAT7341147&id=QaOoAAAAEBAJ&oi=fnd&dq=c+daughton+pharmaceutical+OR+ppcps+OR+phacs.

Mallett SR, Danta RC, Regla P, Corey AD, and Davidner AA. "Waste sorting method for rendering drugs non-recoverable." **2009**, (11/777188) http://www.freepatentsonline.com/7533028.html.

Malygina T, Preis S, and Kallas J. "The role of pH in aqueous photocatalytic oxidation of β-estradiol." *International Journal of Photoenergy* **2005**, *7*:187-191.

Managaki S, Murata A, Takada H, Tuyen BC, and Chiem NH. "Distribution of Macrolides, Sulfonamides, and Trimethoprim in Tropical Waters: Ubiquitous Occurrence of Veterinary Antibiotics in the Mekong Delta." *Environmental Science & Technology* **2007**, *41*(23):8004-8010.

Managaki S, Takada H, Kim D-M, Horiguchi T, and Shiraishi H. "Three-dimensional distributions of sewage markers in Tokyo Bay water--fluorescent whitening agents (FWAs)." *Marine Pollution Bulletin* **2006**, *52*(3):281-292; doi:10.1016/j.marpolbul.2005.08.025.

Manaia C, Novo A, Coelho B, and Nunes O. "Ciprofloxacin Resistance in Domestic Wastewater Treatment Plants." *Water, Air, & Soil Pollution* **2009**, *In press*; doi:10.1007/s11270-009-0171-0.

Manclús JJ, Moreno Ma, Plana E, and Montoya An. "Development of Monoclonal Immunoassays for the Determination of Triazole Fungicides in Fruit Juices." *Journal of Agricultural and Food Chemistry* **2008**, *56*(19):8793-8800; doi:10.1021/jf801187b.

Mander Ü and Mitsch WJ. "Pollution control by wetlands." *Ecological Engineering* **2009**, *35*(2):153-158; doi:10.1016/j.ecoleng.2008.10.005.

Maniatis T and Reed R. "An extensive network of coupling among gene expression machines." *Nature* **2002**, *416*(6880):499-506; doi:10.1038/416499a.

Manjusha S, Sarita GB, Elyas KK, and Chandrasekaran M. "Multiple Antibiotic Resistances of Vibrio Isolates from Coastal and Brackish Water Areas." *American Journal of Biochemistry and Biotechnology* **2005**, *1*(4):201-206.

Mankes RF and Lee L. "A vital step in managing pharmaceutical waste." Vestara, 2006, 16 pp.

Mansell BL and Drewes JE. "Fate of steroidal hormones during soil-aquifer treatment." *Ground Water Monitoring & Remediation* **2004**, *24*(2):94-101; doi:10.1111/j.1745-6592.2004.tb00717.x.

Mansell J, Drewes JE, and Rauch T. "Removal mechanisms of endocrine disrupting compounds (steroids) during soil aquifer treatment." *Water Science and Technology* **2004**, *50*(2):229-237.

Mantovani A and Calamandrei G. "Delayed developmental effects following prenatal exposure to drugs." *Current Pharmaceutical Design* **2001**, *7*(9):859-880.

Mantzavinos D, Kassinos D, and Parsons SA. "Applications of advanced oxidation processes in wastewater treatment." *Water Research* **2009**, *43*(16):3901-3901; doi:10.1016/j.watres.2009.08.024.

Manusadžianas L, Sadauskas K, and Vitkus R. "Comparative study of indices used in toxicity evaluation of effluents." *Desalination* **2009**, *In press*; doi:10.1016/j.desal.2009.09.061.

Mao JJ and Desai K. "Letter: Metal content in ayurvedic medicines." *The Journal of the American Medical Association* **2009**, *301*(3):271; author reply 272.

Mao L, Huang Q, Lu J, and Gao S. "Ligninase-Mediated Removal of Natural and Synthetic Estrogens from Water: I. Reaction Behaviors." *Environmental Science & Technology* **2009**, *43*(2):374-379; doi:10.1021/es801791v.

Maoz A and Chefetz B. "Sorption of the pharmaceuticals carbamazepine and naproxen to dissolved organic matter: Role of structural fractions." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.10.019.

Maran E, Novic M, Barbieri P, and Zupan J. "Application of counterpropagation artificial neural network for modelling properties of fish antibiotics." *SAR QSAR Environmental Research* **2004**, *15*(5-6):469-480; doi:10.1080/10629360412331297461.

Marchant GE. "Genomics and environmental regulation scenarios and implications." Arizona State University College of Law, Foresight and Governance Project, January, 2002, 30 pp; http://www.wilsoncenter.org/topics/docs/marchantwhitepaper_Jan02.pdf.

Marchese S, Gentili A, Perret D, D'Ascenzo G, and Pastori F. "Quadrupole time-of-flight versus triple-quadrupole mass spectrometry for the determination of non-steroidal antiinflammatory drugs in surface water by liquid chromatography/tandem mass spectrometry." *Rapid Communications in Mass Spectrometry* **2003**, *17*(9):879-886; doi:10.1002/rcm.998.

Marchese S, Perret D, Gentili A, Curini R, and Pastori F. "Determination of non-steroidal anti-inflammatory drugs in surface water and wastewater by liquid chromatography-tandem mass spectrometry." *Chromatographia* **2003**, *58*(5-6):263-269; doi:10.1365/s10337-003-0052-4.

Marchesini GR, Meimaridou A, Haasnoot W, Meulenberg E, Albertus F, Mizuguchi M*, et al.* "Biosensor discovery of thyroxine transport disrupting chemicals." *Toxicology and Applied Pharmacology* **2008**, *232*(1):150-160; doi:10.1016/j.taap.2008.06.014.

Marchiset-Ferlay N, Gerbaud L, Sauvant MP, Jaffeux P, Manhes G, Leblanc N*, et al.* "[Description of unused drugs collected in pharmacies in the Puy-de-Dome region in France]." *Revue d'épidémiologie et de santé publique* **2001**, *49*(6):551-558.

Marchiset-Ferlay N, Sauvant MP, Jaffeux P, Manhès G, Leblanc N, Coste F*, et al.* "[Profiles of people who return unused medicine to pharmacies in Puy-de-Dôme, and their motivations for doing so]." *Sante Publique* **2004**, *16*(3):435-446.

Marciocha D, Felis E, and Surmacz-Gorska J. "Parameters of pretreating wastewater polluted with chemicals based on modified Fenton's reaction." *Environment Protection Engineering* **2007**, *33*(2):165-173.

Marco-Urrea E, Pérez-Trujillo M, Cruz-Morató C, Caminal G, and Vicent T. "White-rot fungus-mediated degradation of the analgesic ketoprofen and identification of intermediates by HPLC-DAD-MS and NMR." *Chemosphere* **2009**, *In Press*; doi:10.1016/j.chemosphere.2009.10.009.

Marco-Urrea E, Pérez-Trujillo M, Cruz-Morató C, Caminal G, and Vicent T. "Degradation of the drug sodium diclofenac by Trametes versicolor pellets and identification of some intermediates by NMR." *Journal of Hazardous Materials* **2009**, *In Press*; doi:10.1016/j.jhazmat.2009.11.112.

Marco-Urrea E, Pérez-Trujillo M, Vicent T, and Caminal G. "Ability of white-rot fungi to remove selected pharmaceuticals and identification of degradation products of ibuprofen by Trametes versicolor." *Chemosphere* **2009**, *74*(6):765-772; doi:10.1016/j.chemosphere.2008.10.040.

Marco-Urrea E, Radjenovic J, Caminal G, Petrovic M, Vicent T, and Barceló D. "Oxidation of atenolol, propranolol, carbamazepine and clofibric acid by a biological Fenton-like system mediated by the white-rot fungus Trametes versicolor." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.09.049.

Marengo J, Kok R, O'Brien K, Velagaleti R, and Stamm J. "Aerobic biodegradation of (^{14}C)-sarafloxacin hydrochloride in soil." *Environmental Toxicology and Chemistry* **1997**, *16*(3):462-471; doi:10.1897/1551-5028(1997)016<0462:ABOCSH>2.3.CO;2.

Mari F, Politi L, Biggeri A, Accetta G, Trignano C, Di Padua M*, et al.* "Cocaine and heroin in waste water plants: A 1-year study in the city of Florence, Italy." *Forensic Science International* **2009**, *189*(1-3):88-92; doi:10.1016/j.forsciint.2009.04.018.

Marinkovic N, Vitale K, Holcer NJ, Dzakula A, and Pavic T. "Management of hazardous medical waste in Croatia." *Waste Management* **2008**, *28*(6):1049-1056; doi:10.1016/j.wasman.2007.01.021.

Marinovich M, Ghilardi F, and Galli CL. "Effect of pesticide mixtures on in vitro nervous cells: comparison with single pesticides." *Toxicology* **1996**, *108*(3):201-206; doi:10.1016/0300-483X(96)03303-3.

Markandya A, Taylor T, Longo A, Murty MN, Murty S, and Dhavala K. "Counting the cost of vulture decline--An appraisal of the human health and other benefits of vultures in India." *Ecological Economics* **2008**, *67*(2):194-204; doi:10.1016/j.ecolecon.2008.04.020.

Marking LL, Howe GE, and Crowther JR. "Toxicity of Erythromycin, Oxytetracycline, and Tetracycline Administered to Lake Trout in Water Baths, by Injection, or by Feeding." *The Progressive Fish-Culturist* **1988**, *50*(4):197-201.

Markle Foundation "Connecting for Health." Web Page maintained by The Markle Foundation 2008, http://www.connectingforhealth.org/.

Markman S, Guschina IA, Barnsley S, Buchanan KL, Pascoe D, and Müller CT. "Endocrine disrupting chemicals accumulate in earthworms exposed to sewage effluent." *Chemosphere* **2007**, *70*(1):119-125; doi:10.1016/j.chemosphere.2007.06.045.

Markman S, Leitner S, Catchpole C, Barnsley S, Muller CT, Pascoe D*, et al.* "Pollutants Increase Song Complexity and the Volume of the Brain Area HVC in a Songbird." *PloS One* **2008**, *3*(2):e1674; doi:10.1371/journal.pone.0001674.

Marquardt KA, Tharratt RS, and Musallam NA. "Fentanyl remaining in a transdermal system following three days of continuous use." *Annals of Pharmacotherapy* **1995**, *29*(10):969-971.

Marques CR, Abrantes N, and Goncalves F. "Life-history traits of standard and autochthonous cladocerans: I. Acute and chronic effects of acetylsalicylic acid." *Environmental Toxicology* **2004**, *19*(5):518-526; doi:10.1002/tox.20059.

Marques CR, Abrantes N, and Goncalves F. "Life-history traits of standard and autochthonous cladocerans: II. Acute and chronic effects of acetylsalicylic acid metabolites." *Environmental Toxicology* **2004**, *19*(5):527-540; doi:10.1002/tox.20060.

Marques MA, Pereira HM, Padilha MC, and de Aquino Neto FR. "Analysis of synthetic 19-norsteroids trenbolone, tetrahydrogestrinone and gestrinone by gas chromatography-mass spectrometry." *Journal of Chromatography A* **2007**, *1150*(1-2):215-225; doi:10.1016/j.chroma.2006.08.032.

Marrazza G, Chianella I, and Mascini M. "Disposable DNA electrochemical biosensors for environmental monitoring." *Analytica Chimica Acta* **1999**, *387*(3):297-307; doi:10.1016/S0003-2670(99)00051-3.

Marsalek J. "Pharmaceuticals And Personal Care Products (PPCP) In Canadian Urban Waters: A Management Perspective." in *Dangerous Pollutants (Xenobiotics) in Urban Water Cycle*, Hlavinek P, Bonacci O, Marsalek J and Mahrikova I, Eds., Springer Netherlands; 2008, pp 117-130; doi:10.1007/978-1-4020-6795-2; http://dx.doi.org/10.1007/978-1-4020-6795-2_12 http://www.springerlink.com/content/xu140474814q2655/.

Marsalek J, Rochfort Q, and Savić D. "Urban Water as a Part of Integrated Catchment Management." in *Frontiers in Urban Water Management: Deadlock or Hope*, Maksimović Č and Tejada-Guibert JA, Eds., IWA Publishing; London, UK, 2001, Chapter 2, pp 38-83; http://books.google.com/books?hl=en&lr=&id=HDL9-Yr2sssC&oi=fnd&pg=PT52&dq=daughton+sewage&ots=nRbcGdMAkN&sig=EcydI4FoExxUp8qFaRV6HCiFcAo#v=onepage&q=daughton%20sewage&f=false.

Marshall J. "Disposal of household special wastes." *EnviroStats* **2008**, *2*(1):3-7.

Marshall J. "Disposal of household special wastes." Statistics Canada, Ottawa, Ontario, Canada, 2008. http://www.statcan.ca/english/freepub/16-002-XIE/2008001/10539-en.htm.

Martin ANF, George R. , Jones AD, and Frank M. "The non-destructive identification of solid over-the-counter medications using single particle aerosol mass spectrometry." *Rapid Communications in Mass Spectrometry* **2007**, *21*(22):3561-3568; doi:10.1002/rcm.3248.

Martin C, Moeder M, Daniel X, Krauss G, and Schlosser D. "Biotransformation of the polycyclic musks HHCB and AHTN and metabolite formation by fungi occurring in freshwater environments." *Environmental Science & Technology* **2007**, *41*(15):5395-5402; doi:10.1021/es0711462.

Martin JL, Senator, Bilotas K, Cameron J, Carr DS, Earle WM, Gressitt S*, et al.* "Final report of the Maine Drug Return Implementation Group." State of Maine 121st Legislature, 2005, 34 pp; http://www.maine.gov/legis/opla/drugrpt.pdf.

Martin MJ, Pablos F, and Gonzalez AG. "Simultaneous determination of caffeine and non-steroidal anti-inflammatory drugs in pharmaceutical formulations and blood plasma by reversed-phase HPLC from linear gradient elution." *Talanta* **1999**, *49*(2):453-459; doi:10.1016/S0039-9140(99)00006-5.

Martin TL, Woodall KL, and McLellan BA. "Fentanyl-Related Deaths in Ontario, Canada: Toxicological Findings and Circumstances of Death in 112 Cases (2002-2004)." *Journal of Analytical Toxicology* **2006**, *30*(8):603-610.

Martinand OV and Voulvoulis N. "Sustainable risk management of emerging contaminants in municipal wastewaters." *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences* **2009**, *367*(1904):3895-3922; doi:10.1098/rsta.2009.0115.

Martin-Calero MJ, Machuca M, Murillo MD, Cansino J, Gastelurrutia MA, and Faus MJ. "Structural Process and Implementation Programs of Pharmaceutical Care in Different Countries." *Current Pharmaceutical Design* **2004**, *10*:3969-3985;

doi:10.2174/1381612043382549.

Martindale. "The Complete Drug Reference." Great Britain, England, Pharmaceutical Press, 2007, 35th ed., 3322 pp; http://www.medicinescomplete.com/mc/martindale/current/contents.htm.

Martin-Diaz L, Franzellitti S, Buratti S, Valbonesi P, Capuzzo A, and Fabbri E. "Effects of environmental concentrations of the antiepilectic drug carbamazepine on biomarkers and cAMP-mediated cell signaling in the mussel Mytilus galloprovincialis." *Aquatic Toxicology* **2009**, *94*(3):177-185; doi:10.1016/j.aquatox.2009.06.015.

Martin-Diaz ML, Franzellitti S, Buratti S, and Fabbri E. "Evaluation of a battery of biomarkers and other physiological responses to assess the toxicity of environmental carbamazepine concentrations in the mussel Mytilus galloprovincialis." *Comparative Biochemistry and Physiology, Part A: Molecular & Integrative Physiology* **2008**, *151*(1, Supplement 1):S5-S5; doi:10.1016/j.cbpa.2008.05.055.

Martín-Díaz ML, Gagné F, and Blaise C. "The use of biochemical responses to assess ecotoxicological effects of Pharmaceutical and Personal Care Products (PPCPs) after injection in the mussel Elliptio complanata." *Environmental Toxicology and Pharmacology* **2009**, *28*(2):237-242; doi:10.1016/j.etap.2009.04.009.

Martinez Bueno MJ, Aguera A, Gomez MJ, Hernando MD, Garcia-Reyes JF, and Fernandez-Alba AR. "Application of Liquid Chromatography/Quadrupole-Linear Ion Trap Mass Spectrometry and Time-of-Flight Mass Spectrometry to the Determination of Pharmaceuticals and Related Contaminants in Wastewater." *Analytical Chemistry* **2007**, *79*(24):9372-9384; doi:10.1021/ac0715672.

Martinez Bueno MJ, Agüera A, Hernando MD, Gómez MJ, and Fernández-Alba AR. "Evaluation of various liquid chromatography-quadrupole-linear ion trap-mass spectrometry operation modes applied to the analysis of organic pollutants in wastewaters." *Journal of Chromatography A* **2009**, *1216*(32):5995-6002; doi:10.1016/j.chroma.2009.06.047.

Martínez Bueno MJ, Hernando MD, Agüera A, and Fernández-Alba AR. "Application of passive sampling devices for screening of micro-pollutants in marine aquaculture using LC-MS/MS." *Talanta* **2009**, *77*(4):1518-1527; doi:10.1016/j.talanta.2008.09.047.

Martinez JL. "Antibiotics and Antibiotic Resistance Genes in Natural Environments." *Science* **2008**, *321*(5887):365-367; doi:10.1126/science.1159483.

Martinez JL. "Environmental pollution by antibiotics and by antibiotic resistance determinants." *Environmental Pollution* **2009**, *157*(11):2893-2902; doi:10.1016/j.envpol.2009.05.051.

Martinez M, Amidon G, Clarke L, Jones WW, Mitra A, and Riviere J. "Applying the biopharmaceutics classification system to veterinary pharmaceutical products: Part II. Physiological considerations." *Advanced Drug Delivery Reviews* **2002**, *54*(6):825-850; doi:10.1016/S0169-409X(02)00071-6.

Martinez-Carballo E, Gonzalez-Barreiro C, Scharf S, and Gans O. "Environmental monitoring study of selected veterinary antibiotics in animal manure and soils in Austria." *Environmental Pollution* **2007**, *148*(2):570-579; doi:10.1016/j.envpol.2006.11.035.

Martinovic D, Denny JS, Schmieder PK, Ankley GT, and Sorensen PW. "Temporal Variation in the Estrogenicity of a Sewage Treatment Plant Effluent and Its Biological Significance." *Environmental Science & Technology* **2007**, *42*(9):3421-3427; doi:10.1021/es0708013.

Martinovic D, Hogarth WT, Jones RE, and Sorensen PW. "Environmental estrogens suppress hormones, behavior, and reproductive fitness in male fathead minnows." *Environmental Toxicology and Chemistry* **2007**, *26*(2):271-278; doi:10.1897/06-065R.1.

Martin-Robichaud DJ, Peterson RH, Benfey TJ, and Crim LW. "Direct feminization of lumpfish (Cyclopterus lumpus L.) using 17β-oestradiol-enriched Artemia as food." *Aquaculture* **1994**, *123*(1-2):137-151; doi:10.1016/0044-8486(94)90126-0.

Martins AF, Vasconcelos TG, da Silveira Frank C, Henriques DM, and Kümmerer K. "Photooxidation as advanced oxidation treatment of hospital effluents." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 28, pp 455-466; doi:10.1007/978-3-540-74664-5_28; http://www.springerlink.com/content/k2gk0r2773234n6j/?p=9ed3dcab782d422fa25c2de402461f54&pi=27.

Martins AF, Vasconcelos TG, Henriques DM, da S. Frank C, König A, and Kümmerer K. "Concentration of Ciprofloxacin in Brazilian Hospital Effluent and Preliminary Risk Assessment: A Case Study." *CLEAN - Soil, Air, Water* **2008**, *36*(3):264-269; doi:10.1002/clen.200700171.

Martins da Costa P, Vaz-Pires P, and Bernardo F. "Antimicrobial resistance in Enterococcus spp. isolated in inflow, effluent and

sludge from municipal sewage water treatment plants." *Water Research* **2006**, *40*(8):1735-1740; doi:10.1016/j.watres.2006.02.025.

Martinsen B and Horsberg T. "Comparative single-dose pharmacokinetics of four quinolones, oxolinic acid, flumequine, sarafloxacin, and enrofloxacin, in Atlantic salmon (Salmo salar) held in seawater at 10 degrees C." *Antimicrobial Agents and Chemotherapy* **1995**, *39*(5):1059-1064.

Martinsen B, Horsberg TE, Varma KJ, and Sams R. "Single dose pharmacokinetics study of florfenicol in Atlantic salmon (Salmo salar) in seawater at 11°C." *Aquaculture Asia* **1993**, *112*(1):1-11.

Martos PA, Lehotay SJ, and Shurmer B. "Ultratrace Analysis of Nine Macrolides, Including Tulathromycin A (Draxxin), in Edible Animal Tissues with Minicolumn Liquid Chromatography Tandem Mass Spectrometry." *Journal of Agricultural and Food Chemistry* **2008**, *56*(19):8844-8850; doi:10.1021/jf801747u.

Martyniuk CJ, Gerrie ER, Popesku JT, Ekker M, and Trudeau VL. "Microarray analysis in the zebrafish (Danio rerio) liver and telencephalon after exposure to low concentration of 17α-ethinylestradiol." *Aquatic Toxicology* **2007**, *84*(1):38-49; doi:10.1016/j.aquatox.2007.05.012.

Martyniuk CJ, Xiong HL, Crump K, Chiu S, Sardana R, Nadler A*, et al.* "Gene expression profiling in the neuroendocrine brain of male goldfish (Carassius auratus) exposed to 17α-ethinylestradiol." *Physiological Genomics* **2006**, *27*(3):328-336; doi:10.1152/physiolgenomics.00090.2006.

Marvier M. "Pharmaceutical crops have a mixed outlook in California." *California Agriculture* **2007**, *61*(2):59-66.

Marx J. "Cancer Research: Anti-Inflammatories Inhibit Cancer Growth--But How?" *Science* **2001**, *291*(5504):581-582; doi:10.1126/science.291.5504.581.

Masciangioli T and Zhang W-X. "Environmental technologies at the nanoscale." *Environmental Science & Technology* **2003**, *37*(5):102A-108A; doi:10.1021/es0323998.

Mascolo G, Balest L, Cassano D, Laera G, Lopez A, Pollice A*, et al.* "Biodegradability of pharmaceutical industrial wastewater and formation of recalcitrant organic compounds during aerobic biological treatment." *Bioresource Technology* **2009**, *In Press*; doi:10.1016/j.biortech.2009.10.057.

Mash H, Schenck K, and Rosenblum L. "Hypochlorite oxidation of select androgenic steroids." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.11.051.

Maskaoui K, Hibberd A, and Zhou JL. "Assessment of the Interaction between Aquatic Colloids and Pharmaceuticals Facilitated by Cross-Flow Ultrafiltration." *Environmental Science & Technology* **2007**, *41*(23):8038-8043.

Mason DS, Schafer F, Shick JM, and Dunlap WC. "Ultraviolet radiation-absorbing mycosporine-like amino acids (MAAs) are acquired from their diet by medaka fish (Oryzias latipes) but not by SKH-1 hairless mice." *Comparative Biochemistry and Physiology, Part A: Molecular & Integrative Physiology* **1998**, *120*(4):587-598; doi:10.1016/S1095-6433(98)10069-7.

Mass DEP "Pharmaceutical & Personal Care Products." Web Page maintained by Massachusetts Department of Environmental Protection 2008, http://www.mass.gov/dep/toxics/stypes/ppcpedc.htm.

Massey RC and Peacock SJ. "Antibiotic-resistant sub-populations of the pathogenic bacterium Staphylococcus aureus confer population-wide resistance." *Current Biology* **2002**, *12*(20):R686-R687; doi:10.1016/S0960-9822(02)01205-8.

Massmann G, Dünnbier U, Heberer T, and Taute T. "Behaviour and redox sensitivity of pharmaceutical residues during bank filtration - Investigation of residues of phenazone-type analgesics." *Chemosphere* **2008**, *71*(8):1476-1485; doi:10.1016/j.chemosphere.2007.12.017.

Massmann G, Greskowiak J, Dunnbier U, Zuehlke S, Knappe A, and Pekdeger A. "The impact of variable temperatures on the redox conditions and the behaviour of pharmaceutical residues during artificial recharge." *Journal of Hydrology* **2006**, *328*(1-2):141-156; doi:10.1016/j.jhydrol.2005.12.009.

Massmann G, Sültenfuß J, Dünnbier U, Knappe A, Taute T, and Pekdeger A. "Investigation of groundwater residence times during bank filtration in Berlin: a multi-tracer approach." *Hydrological Processes* **2008**, *22*(6):788-801; doi:10.1002/hyp.6649.

Masters RW. "Pharmaceuticals and Endocrine Disruptors in Rivers and On Tap." National Ground Water Association (NGWA), September, 2001, 1-3 pp; http://www.ucowr.siu.edu/updates/pdfn/V120_A1.pdf.

Masters RW, Verstraeten IM, and Heberer T. "Fate and transport of pharmaceuticals and endocrine disrupting compounds during ground water recharge." *Ground Water Monitoring & Remediation* **2004**, *24*(2):54-57; doi:10.1111/j.1745-6592.2004.tb00712.x.

Mastrocco F. "Pharmaceuticals In The Environment (PIE): Assessing Risk to Human Health." 14 June 2005; http://www.asph.org/UserFiles/EOH05Mastrocco.ppt#256,1,Pharmaceuticals.

Mastrup M, Schafer AI, and Khan SJ. "Predicting fate of the contraceptive pill in wastewater treatment and discharge." *Water Science and Technology* **2005**, *52*(8):279-286.

Matamoros V, Arias C, Brix H, and Bayona JM. "Preliminary screening of small-scale domestic wastewater treatment systems for removal of pharmaceutical and personal care products." *Water Research* **2009**, *43*(1):55-62; doi:10.1016/j.watres.2008.10.005.

Matamoros V and Bayona JM. "Elimination of Pharmaceuticals and Personal Care Products in Subsurface Flow Constructed Wetlands." *Environmental Science & Technology* **2006**, *40*(18):5811-5816.

Matamoros V and Bayona JM. "Behavior of Emerging Pollutants in Constructed Wetlands." *The Handbook of Environmental Chemistry* **2008**, *5, Part S/2*:199-217; doi:10.1007/698_5_096.

Matamoros V, Caselles-Osorio A, Garcia J, and Bayona JM. "Behaviour of pharmaceutical products and biodegradation intermediates in horizontal subsurface flow constructed wetland. A microcosm experiment." *Science of the Total Environment* **2008**, *394*(1):171-176; doi:10.1016/j.scitotenv.2008.01.029.

Matamoros V, Duhec A, Albaigés J, and Bayona J. "Photodegradation of Carbamazepine, Ibuprofen, Ketoprofen and 17α-Ethinylestradiol in Fresh and Seawater." *Water, Air, & Soil Pollution* **2009**, *196*(1):161-168; doi:10.1007/s11270-008-9765-1.

Matamoros V, Garcia J, and Bayona JM. "Behavior of Selected Pharmaceuticals in Subsurface Flow Constructed Wetlands: A Pilot-Scale Study." *Environmental Science & Technology* **2005**, *39*(14):5449-5454.

Matamoros V, Garcia J, and Bayona JM. "Organic micropollutant removal in a full-scale surface flow constructed wetland fed with secondary effluent." *Water Research* **2008**, *42*(3):653-660; doi:10.1016/j.watres.2007.08.016.

Matamoros V, Hijosa M, and Bayona JM. "Assessment of the pharmaceutical active compounds removal in wastewater treatment systems at enantiomeric level. Ibuprofen and naproxen." *Chemosphere* **2009**, *75*(2):200-205; doi:10.1016/j.chemosphere.2008.12.008.

Matamoros V, Jover E, and Bayona J. "Advances in the determination of degradation intermediates of personal care products in environmental matrixes: a review." *Analytical and Bioanalytical Chemistry* **2009**, *393*(3):847-860; doi:10.1007/s00216-008-2371-7.

Matamoros V, xed, ctor, Arias C, Brix H, and Bayona JM. "Removal of Pharmaceuticals and Personal Care Products (PPCPs) from Urban Wastewater in a Pilot Vertical Flow Constructed Wetland and a Sand Filter." *Environmental Science & Technology* **2007**, *41*(23):8171-8177; doi:10.1021/es071594+.

Matejicek D, Houserova P, and Kuban V. "Combined isolation and purification procedures prior to the high-performance liquid chromatographic-ion-trap tandem mass spectrometric determination of estrogens and their conjugates in river sediments." *Journal of Chromatography A* **2007**, *1171*(1-2):80-89; doi:10.1016/j.chroma.2007.09.053.

Matejicek D and Kuban V. "High performance liquid chromatography/ion-trap mass spectrometry for separation and simultaneous determination of ethynylestradiol, gestodene, levonorgestrel, cyproterone acetate and desogestrel." *Analytica Chimica Acta* **2007**, *588*(2):304-315; doi:10.1016/j.aca.2007.02.028.

Mathews KH. "Antimicrobial Drug Use and Veterinary Costs in U.S. Livestock Production." US Department of Agriculture, May, 2001, 13 pp; http://www.ers.usda.gov/Publications/AIB766/.

Matovu E, Stewart ML, Geiser F, Brun R, Maser P, Wallace LJM*, et al.* "Mechanisms of arsenical and diamidine uptake and resistance in Trypanosoma brucei." *Eukaryotic Cell* **2003**, *2*(5):1003-1008; doi:10.1128/EC.2.5.1003-1008.2003.

Matozzo V, Gagné F, Marin MG, Ricciardi F, and Blaise C. "Vitellogenin as a biomarker of exposure to estrogenic compounds in aquatic invertebrates: A review." *Environment International* **2008**, *34*(4):531-545; doi:10.1016/j.envint.2007.09.008.

Matozzo V and Marin MG. "Can 17-β estradiol induce vitellogenin-like proteins in the clam Tapes philippinarum?" *Environmental Toxicology and Pharmacology* **2008**, *26*(1):38-44; doi:10.1016/j.etap.2008.01.001.

Matsui Y, Ozu T, Inoue T, and Matsushita T. "Occurrence of a veterinary antibiotic in streams in a small catchment area with livestock farms." *Desalination* **2008**, *226*(1-3):215-221.

Matsumoto FE and Colus IMS. "Micronucleus frequencies in Astyanax bimaculatus (Characidae) treated with cyclophosphamide or vinblastine sulfate." *Genetics and Molecular Biology* **2000**, *23*(2):489-492; doi:10.1590/S1415-47572000000200041.

Matsumura N, Ishibashi H, Hirano M, Nagao Y, Watanabe N, Shiratsuchi H*, et al.* "Effects of Nonylphenol and Triclosan on Production of Plasma Vitellogenin and Testosterone in Male South African Clawed Frogs (Xenopus laevis)." *Biological & Pharmaceutical Bulletin* **2005**, *28*(9):1748-1751; doi:10.1248/bpb.28.1748.

Matsuura K. "Nestmate recognition mediated by intestinal bacteria in a termite, Reticulitermes speratus." *Oikos* **2001**, *92*(1):20-26; doi:10.1034/j.1600-0706.2001.920103.x.

Matthews RA, Landis WG, and Mathews GB. "The community conditioning hypothesis and its application to environmental toxicology." *Environmental Toxicology and Chemistry* **1996**, *15*(4):597-603; doi:10.1897/1551-5028(1996)015<0597:TCCHAI>2.3.CO;2.

Matthiessen P, Arnold D, Johnson AC, Pepper TJ, Pottinger TG, and Pulman KGT. "Contamination of headwater streams in the United Kingdom by oestrogenic hormones from livestock farms." *Science of the Total Environment* **2006**, *367*(2-3):616-630; doi:10.1016/j.scitotenv.2006.02.007.

Matthiessen P and Sumpter JP. "Effects of estrogenic substances in the aquatic environment." *Fish Ecotoxicology* **1998**, *86*:319-335.

Mattson B. "A voluntary environmental classification system for pharmaceutical substances." *Drug Information Journal* **2007**, *41*(2):187-191.

Mattson M and Calbrese E. "When a little poison is good for you." *New Scientist* **2008**, *199*(2668):36-39.

Mattson MP. "Hormesis and disease resistance: activation of cellular stress response pathways." *Human & Experimental Toxicology* **2008**, *27*(2):155-162; doi:10.1177/0960327107083417.

Mattsson JL. "Mixtures in the real world: The importance of plant self-defense toxicants, mycotoxins, and the human diet." *Toxicology and Applied Pharmacology* **2007**, *223*(2):125-132.

Matyar F, Kaya A, and Dinçer S. "Antibacterial agents and heavy metal resistance in Gram-negative bacteria isolated from seawater, shrimp and sediment in Iskenderun Bay, Turkey." *Science of the Total Environment* **2008**, *407*(1):279-285; doi:10.1016/j.scitotenv.2008.08.014.

Maul JD, Schuler LJ, Belden JB, Whiles MR, and Lydy MJ. "Effects of the antibiotic ciprofloxacin on stream microbial communities and detritivorous macroinvertebrates." *Environmental Toxicology and Chemistry* **2006**, *25*(6):1598-1606; doi:10.1897/05-441R.1.

Maunder RJ, Matthiessen P, Sumpter JP, and Pottinger TG. "Rapid bioconcentration of steroids in the plasma of three-spined stickleback Gasterosteus aculeatus exposed to waterborne testosterone and 17β-oestradiol." *Journal of Fish Biology* **2007**, *70*(3):678-690; doi:10.1111/j.1095-8649.2006.01303.x.

Maurer HH, Bickeboeller-Friedrich J, Kraemer T, and Peters FT. "Toxicokinetics and analytical toxicology of amphetamine-derived designer drugs ('Ecstasy')." *Toxicology Letters* **2000**, *112-113*:133-142; doi:10.1016/S0378-4274(99)00207-6.

Maurer M, Escher BI, Richle P, Schaffner C, and Alder AC. "Elimination of β-blockers in sewage treatment plants." *Water Research* **2007**, *41*(7):1614-1622; doi:10.1016/j.watres.2007.01.004.

Mauriz E, Calle A, Mancl, s J, Montoya A, and Lechuga L. "Multi-analyte SPR immunoassays for environmental biosensing of pesticides." *Analytical and Bioanalytical Chemistry* **2007**, *387*:1449-1458; doi:10.1007/s00216-006-0800-z.

Mavronikola C, Demetriou M, Hapeshi E, Partassides D, Michael C, Mantzavinos D*, et al.* "Mineralisation of the antibiotic amoxicillin in pure and surface waters by artificial UVA- and sunlight-induced Fenton oxidation." *Journal of Chemical Technology and Biotechnology* **2009**, *84*(8):1211-1217; doi:10.1002/jctb.2159.

Mayeno AN, Yang RSH, and Reisfeld B. "Biochemical Reaction Network Modeling: Predicting Metabolism of Organic Chemical Mixtures." *Environmental Science & Technology* **2005**, *39*(14):5363-5371.

Mayer P, Tolls J, Hermens JL, and Mackay D. "Equilibrium sampling devices." *Environmental Science & Technology* **2003**,

37(9):184A-191A; doi:10.1021/es032433i.

Mayer P, Toraäg L, Glaesner N, and Jönsson JÅ. "Silicone Membrane Equilibrator: Measuring Chemical Activity of Nonpolar Chemicals with Poly(dimethylsiloxane) Microtubes Immersed Directly in Tissue and Lipids." *Analytical Chemistry* **2009**, *81*(4):1536-1542; doi:10.1021/ac802261z.

Mayon N, Bertrand A, Leroy D, Malbrouck C, Mandiki SNM, Silvestre F*, et al.* "Multiscale approach of fish responses to different types of environmental contaminations: A case study." *Science of the Total Environment* **2006**, *367*(2-3):715-731.

Mazellier P, Méité L, and Laat JD. "Photodegradation of the steroid hormones 17β-estradiol (E2) and 17α-ethinylestradiol (EE2) in dilute aqueous solution." *Chemosphere* **2008**, *73*(8):1216-1223; doi:10.1016/j.chemosphere.2008.07.046.

Mazur CS and Kenneke JF. "Cross-Species Comparison of Conazole Fungicide Metabolites Using Rat and Rainbow Trout (Onchorhynchus mykiss) Hepatic Microsomes and Purified Human CYP 3A4." *Environmental Science & Technology* **2008**, *42*(3):947-954; doi:10.1021/es072049b.

McArdell CS, Alder AC, Göbel A, Löffler D, Suter MJ-F, and Ternes TA. "Analytical methods." in *Human Pharmaceuticals, Hormones and Fragrances: The challenges of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, 2006, Chapter 3, pp 55-106; http://books.google.com/books?hl=en&id=X9Sb4mVGF-oC&dq=Human+pharmaceuticals,+hormones,+and+fragrances.+The+challenge+of+micropollutants+in+urban+water+management&printsec=frontcover&source=web&ots=uHugd1l7Ts&sig=xymHoOcRiEjYwnGgtlV593-Qt6Q&sa=X&oi=book_result&resnum=1&ct=result.

McArdell CS, Alder AC, Göbel A, Löffler D, Suter MJ-F, and Ternes TA. "Analytical methods." in *Human pharmaceuticals, hormones and fragrances: The challenge of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, UK, 2007, Chapter 3, pp 55-106; http://books.google.com/books?id=X9Sb4mVGF-oC&dq=Human+pharmaceuticals,+hormones+and+fragrances:++The+challenge+of+micropollutants+in+urban+water+management&printsec=frontcover&source=bn&hl=en&ei=DzGcSuP5NqWEmQeYscjABA&sa=X&oi=book_result&ct=result&resnum=4#v=onepage&q=&f=false.

McArdell CS, Molnar E, Nipales NS, and Giger W. "Occurrence of macrolide and sulfonamide antibiotics in the aquatic environment." *Science of the Total Environment* **1999**, *225*:109-118.

McArdell CS, Molnar E, Suter MJF, and Giger W. "Occurrence and fate of macrolide antibiotics in wastewater treatment plants and in the Glatt Valley Watershed, Switzerland." *Environmental Science & Technology* **2003**, *37*(24):5479-5486; doi:10.1021/es034368i.

McArdle M, Elskus A, McElroy A, Larsen B, Benson W, and Schlenk D. "Estrogenic and CYP1A response of mummichogs and sunshine bass to sewage effluent." *Marine Environmental Research* **2000**, *50*(1-5):175-179; doi:10.1016/S0141-1136(00)00074-X.

McAvoy DC, Schatowitz B, Jacob M, Hauk A, and Eckhoff WS. "Measurement of triclosan in wastewater treatment systems." *Environmental Toxicology and Chemistry* **2002**, *21*(7):1323-1329; doi:10.1897/1551-5028(2002)021<1323:MOTIWT>2.0.CO;2.

McAvoy K. "Occurrence of Estrogen in Wastewater Treatment Plant and Waste Disposal Site Water Samples." *Clearwaters* **2008**, *Fall*:28-34.

McBain AJ and Gilbert P. "Biocide tolerance and the harbingers of doom." *International Biodeterioration & Biodegradation* **2001**, *47*(2):55-61; doi:10.1016/S0964-8305(01)00037-3.

McBain AJ, Rickard AH, and Gilbert P. "Possible implications of biocide accumulation in the environment on the prevalence of bacterial antibiotic resistance." *Journal of Industrial Microbiology & Biotechnology* **2002**, *29*(6):326-330; doi:10.1038/sj.jim.7000324.

McBride M and Wyckoff J. "Emerging Liabilities from Pharmaceuticals and Personal Care Products." *Environmental Claims Journal* **2002**, *14*(2):175-189.

McCallum EA. "Adsorption, desorption, and steady-state removal of estrogenic hormone 17beta-estradiol by nanofiltration and ultrafiltration membranes." Masters Dissertation, Georgia Institute of Technology, 2005. http://smartech.gatech.edu/dspace/handle/1853/7231.

McCallum EA, Hyung H, Do TA, Huang C-H, and Kim J-H. "Adsorption, desorption, and steady-state removal of 17β-estradiol by nanofiltration membranes." *Journal of Membrane Science* **2008**, *319*(1-2):38-43; doi:10.1016/j.memsci.2008.03.014.

McCarthy C. 2008, "H.R. 6820: Water Assessment and Treatment Evaluation Research Study Act of 2008." http://www.govtrack.us/congress/bill.xpd?bill=h110-6820.

McChesney DJ. "In vitro induction of multi-antibiotic resistant phenotypes in Staphyloccocus aureus by exposure to environmental waters." Doctoral Dissertation, Rutgers The State University of New Jersey - New Brunswick, New Brunswick, NJ, 2008. 130 pp.

McClure EL and Wong CS. "Solid phase microextraction of macrolide, trimethoprim, and sulfonamide antibiotics in wastewaters." *Journal of Chromatography A* **2007**, *1169*(1-2):53-62.

McCormack K. "Target Fidelity vs. Drug Promiscuity: Searching for one drug-one target…a justified effort or an unsustainable cash burn?" *ChemBioNews.com* **2008**, *18*(1):43.

McCormick CG. "Regulatory challenges for new formulations of controlled substances in today's environment." *Drug and Alcohol Dependence* **2006**, *83*(Supplement 1):S63-S67.

McCoy M. "Going Green." *Chemical & Engineering News* **2007**, *85*(05):13-19.

McCracken DI. "The potential for avermectins to affect wildlife." *Veterinary Parasitology* **1993**, *48*(1-4):273-280; doi:10.1016/0304-4017(93)90162-G.

McCurdy WY. "The influence of staggered exposure to fluoxetine on Aggressive behaviors in siamese fighting fish (betta splendens)." Maryville College, Maryville, TN, 2006. 24 pp; http://faculty.maryvillecollege.edu/crain/Thesis/Mccurdy.pdf.

McDonald MD. "11.2. The impact of the selective serotonin reuptake inhibitor, fluoxetine (Prozac), on pulsatile urea excretion in gulf toadfish, Opsanus beta." *Comparative Biochemistry and Physiology - Part A: Molecular & Integrative Physiology* **2007**, *148*(Supplement 1):S46-S46; doi:10.1016/j.cbpa.2007.06.116.

McDowell DC, Huber MM, Wagner M, Von Gunten U, and Ternes TA. "Ozonation of carbamazepine in drinking water: Identification and kinetic study of major oxidation products." *Environmental Science & Technology* **2005**, *39*(20):8014-8022; doi:10.1021/es0500431.

McDowell DC and Metcalfe CD. "Phthalate Esters in Sediments Near a Sewage Treatment Plant Outflow in Hamilton Harbour, Ontario: SFE Extraction and Environmental Distribution." *Journal of Great Lakes Research* **2001**, *27*(1):3-9; doi:10.1016/S0380-1330(01)70618-1.

McFadzen I, Eufemia N, Heath C, Epel D, Moore M, and Lowe D. "Multidrug resistance in the embryos and larvae of the mussel Mytilus edulis." *Marine Environmental Research* **2000**, *50*(1-5):319-323; doi:10.1016/S0141-1136(00)00057-X.

McGee BL, Pinkney AE, Fisher DJ, and Yonkos LT. "Evaluation of endocrine disrupting effects in Potomac River fish." Service UFaW, CBFO-C03, NFWF Project Number 99-368-006, US Fish and Wildlife Service, January 2003. 13 pp; http://www.fws.gov/chesapeakebay/pdf/CBFO-C0301.PDF.

McGee MR, Julius ML, Vajda AM, Norris DO, Barber LB, and Schoenfuss HL. "Predator Avoidance Performance of Larval Fathead Minnows (Pimephales promelas) Following Short-term Exposure to Estrogen Mixtures." *Aquatic Toxicology* **2009**, *91*(4):355-361; doi:10.1016/j.aquatox.2008.12.002.

McGinnis D. "Toxicological profile of triclosan In the aquatic environment: Derivation of a national water Quality criterion." Melbourne, FL, 26 April, 2008, 19 pp; http://www.dalemcginnis.com/docs/triclosan.doc.

McGlinchey TA, Rafter PA, Regan F, and McMahon GP. "A review of analytical methods for the determination of aminoglycoside and macrolide residues in food matrices." *Analytica Chimica Acta* **2008**, *624*(1):1-15; doi:10.1016/j.aca.2008.05.054.

McGovern EM, Tennant S, Mackay C, and Glasgow Pharmacy Audit Programme. "Audit of returned medicines to community pharmacy in Anniesland/Bearsden/Milingavie LHCC." *Pharmacy World and Science* **2002**, *24*(3):A11-12.

McGovern SL, Caselli E, Grigorieff N, and Shoichet BK. "A common mechanism underlying promiscuous inhibitors from virtual and high-throughput screening." *Journal of Medicinal Chemistry* **2002**, *45*(8):1712-1722; doi:10.1021/jm010533y.

McGowan E. "Comment on "antibiotic resistance genes as emerging contaminants: Studies in Northern Colorado"." *Environmental Science & Technology* **2007**, *41*(7):2651-2652; doi:10.1021/es0680156.

McGrath N. 2009, "Water Pollution: Pharma's Next Big Headache?" GreenBiz.com, 3 pp;

http://www.greenbiz.com/blog/2009/08/28/water-pollution-pharmas-next-big-headache.

McGrath P and Li C-Q. "Zebrafish: a predictive model for assessing drug-induced toxicity." *Drug Discovery Today* **2008**, *13*(9-10):394-401; doi:10.1016/j.drudis.2008.03.002.

McGregor E, Solomon K, and Hanson M. "Monensin Is Not Toxic to Aquatic Macrophytes at Environmentally Relevant Concentrations." *Archives of Environmental Contamination and Toxicology* **2007**, *53*(4):541-551; doi:10.1007/s00244-007-0002-5.

McGurk J. "Sewer disposal of pharmaceutical waste." Environmental Management Branch and Department of Health Services, State of California, 5 September 2003. 4 pp; http://www.cdph.ca.gov/certlic/medicalwaste/Documents/MedicalWaste/pharms_out_sewers_v3_090503.pdf.

McHenry M, Suchar V, and Chigbu P. "The effects of triclosan on marine algae." *Journal of the Mississippi Academy of Sciences* **2006**, *51*(1):89.

McKee G. "Keeping drugs out of the toilet: The need for federal action to allow consumer drug donation." *Quinnipiac Health Law Journal* **2006**, *10*(1):45-76.

McKeegan KS, Borges-Walmsley MI, and Walmsley AR. "Structural understanding of efflux-mediated drug resistance: potential routes to efflux inhibition." *Current Opinion in Pharmacology* **2004**, *4*(5):479-486; doi:10.1016/j.coph.2004.07.002.

McKellar QA. "Ecotoxicology and residues of anthelmintic compounds." *Veterinary Parasitology* **1997**, *72*(3-4):413-435; doi:10.1016/S0304-4017(97)00108-8.

McKenna P. "Could your trashcan solve the energy crisis?" *New Scientist* **2009**.

McKeon DM, Calabrese JP, and Bissonnette GK. "Antibiotic resistant gram-negative bacteria in rural groundwater supplies." *Water Research* **1995**, *29*(8):1902-1908; doi:10.1016/0043-1354(95)00013-B.

McLachlan JA "Complete list of publications." http://e.hormone.tulane.edu/elabs/Media-EELab/JMcLachlanMedia/John_McLachlan_CV.pdf.

McLachlan JA. "Synergistic Effect of Environmental Estrogens: Report Withdrawn." *Science* **1997**, *277*(5325):459d-463; doi:10.1126/science.277.5325.459d.

McLachlan JA, Simpson E, and Martin M. "Endocrine disrupters and female reproductive health." *Best Practice & Research Clinical Endocrinology & Metabolism* **2006**, *20*(1):63-75; doi:10.1016/j.beem.2005.09.009.

McLaren A. "Too late for the midwife toad: stress, variability and Hsp90." *Trends in Genetics* **1999**, *15*(5):169-171; doi:10.1016/S0168-9525(99)01732-1.

McMurry LM, Oethinger M, and Levy SB. "Triclosan targets lipid synthesis." *Nature* **1998**, *394*(6693):531-532; doi:10.1038/28970.

McNulty CA, Boyle P, Nichols T, Clappison DP, and Davey P. "Antimicrobial drugs in the home, United Kingdom." *Emerging Infectious Diseases* **2006**, *12*(10):1523-1526.

McRandle PW, "What Happens to Pharmaceuticals in Wastewater?" *Water & Wastes Digest*, 10 October, 2007, 122 http://www.wwdmag.com/What-Happens-to-Pharmaceuticals-in-Wastewater--newsPiece14619.

McTigue NE and Symons JM, Eds., "The water dictionary, second edition: a comprehensive reference of water terminology." AWWA American Water Works Association, Denver, CO, 2010, 716 pp; http://apps.awwa.org/ebusmain/OnlineStore/ProductDetail.aspx?ProductId=6298.

Mdegela R, Braathen M, Correia D, Mosha R, Skaare J, and Sandvik M. "Influence of 17α-ethynylestradiol on CYP1A, GST and biliary FACs responses in male African sharptooth catfish (Clarias gariepinus) exposed to waterborne Benzo[a]Pyrene." *Ecotoxicology* **2006**, *15*(8):629-637; doi:10.1007/s10646-006-0098-9.

Mead RN, Morgan JB, Avery Jr GB, Kieber RJ, Kirk A, Skrabal SA*, et al.* "Occurrence of the artificial sweetener sucralose in coastal and marine waters of the United States." *Marine Chemistry* **2009**, *In Press*; doi:10.1016/j.marchem.2009.09.005.

Meade MJ, Waddell RL, and Callahan TM. "Soil bacteria Pseudomonas putida and Alcaligenes xylosoxidans subsp. denitrificans inactivate triclosan in liquid and solid substrates." *FEMS Microbiology Letters* **2001**, *204*(1):45-48;

doi:10.1111/j.1574-6968.2001.tb10860.x.

Means E, Ghosh A, and Chowdhury Z. "Endocrine Disruptors and Pharmaceuticals Strategic Initiative Expert Workshop Report Marina del Rey, CA 2-3 October 2007." Awwa Research Foundation, Denver, CO, 5 November, 2007, http://www.waterresearchfoundation.org/theFoundation/ourPrograms/ResearchProgramSIEDCPPCP.aspx.

Meatherall R. "Rapid GC-MS Confirmation of urinary amphetamine and methamphetamine as their propylchloroformate derivatives." *Journal of Analytical Toxicology* **1996**, *19*:316-322.

Medana C, Calza P, Carbone F, Pelizzetti E, Hidaka H, and Baiocchi C. "Characterization of atenolol transformation products on light-activated TiO_2 surface by high-performance liquid chromatography/high-resolution mass spectrometry." *Rapid Communications in Mass Spectrometry* **2008**, *22*(3):301-313; doi:10.1002/rcm.3370.

Medeiros ID, Siebert MN, de Toledo e Silva G, Moraes MO, Freire Marques MR, and Dias Bainy AC. "Differential gene expression in oyster exposed to sewage." *Marine Environmental Research* **2008**, *66*(1):156-157; doi:10.1016/j.marenvres.2008.02.048.

Medgadget. "Heavy Hydrogen Promises Better Versions of Current Drugs." *Medgadget* **2009**.

Medical Products Agency. "Environmental effects of pharmaceuticals, cosmetics and hygiene products." Swedish Medical Products Agency, Sweden, August, 2004, 60 pp; http://www.noharm.org/details.cfm?type=document&id=1026.

Medical Website "Online medical terminology dictionary." 2008, http://medical.webends.com/.

Medina AR, de Cordova MLF, and Diaz AM. "Sensitive determination of adrenaline by means of a flow-through solid phase UV spectrophotometric sensing device." *Microchimica Acta* **2000**, *134*(1-2):101-105; doi:10.1007/s006040070061.

MediSend "MediSend: Sending Hope, Saving Lives." 2009, http://www.medisend.org/.

Meffe R, Kohfahl C, Holzbecher E, Massmann G, Richter D, Dünnbier U*, et al.* "Modelling the removal of p-TSA (para-toluenesulfonamide) during rapid sand filtration used for drinking water treatment." *Water Research* **2009**, *In Press*.

Mehendale HM. "Amplified interactive toxicity of chemicals at nontoxic levels: mechanistic considerations and implications to public health." *Environmental Health Perspectives* **1994**, *102*(Suppl 9):139-149.

MEIC Multicentre Evaluation of In Vitro Cytotoxicity. "Milticentre Evaluation of In Vitro Cytotoxicity." http://www.cctoxconsulting.a.se/meic.htm.

Meijster T, Fransman W, Veldhof R, and Kromhout H. "Exposure to Antineoplastic Drugs Outside the Hospital Environment." *Annals of Occupational Hygiene* **2006**, *50*(7):657-664; doi:10.1093/annhyg/mel023.

Meinerling M and Daniels M. "A validated method for the determination of traces of UV filters in fish using LC-MS/MS." *Analytical and Bioanalytical Chemistry* **2006**, *386*(5):1465-1473; doi:10.1007/s00216-006-0706-9.

Meinertz JR, Greseth SL, Gaikowski MP, and Schmidt LJ. "Chronic toxicity of hydrogen peroxide to Daphnia magna in a continuous exposure, flow-through test system." *Science of the Total Environment* **2008**, *392*(2-3):225-232; doi:10.1016/j.scitotenv.2007.12.015.

Meinertz JR, Stehly GR, and Gingerich WH. "Metabolism, Elimination, and Pharmacokinetics of the Fish Anesthetic Benzocaine." in *Xenobiotics in Fish*, Smith DJ, Gingerich WH and Beconi-Barker MG, Eds., Kluwer Academic/Plenum Publishers; New York, 1999, Chapter 14, pp 189-200; http://bookshop.blackwell.co.uk/jsp/id/Xenobiotics_in_Fish/9780306461897#synopsis.

Meisel M, do Céu Costa M, and Pena A. "Regulatory approach on environmental risk assessment. Risk management recommendations, reasonable and prudent alternatives." *Ecotoxicology* **2009**, *18*(8):1176-1181; doi:10.1007/s10646-009-0365-7.

Meite L and Mazellier P. "Direct photolysis of two pharmaceuticals in aqueous solution." *J Européen d'Hydrologie [European journal of water quality]* **2006**, *37*(1).

Melbourne L and LaiHing K. "Extraction and detection of pharmaceuticals and personal care products in north Alabama water using gas chromatograph-mass spectrometry analysis." *Abstracts of Papers - American Chemical Society* **2003**, *225*(1 March):U372-372.

Melbourne L, Warren A, Asomugha C, and LaiHing K. "Extraction and detection of pharmaceuticals and personal care products in North Alabama waters using gas chromatography-mass spectrometry analysis." *Abstracts of Papers - American Chemical Society* **2002**, *223*(1 April 7):U228-U228.

Melgert BN, Weert B, Schellekens H, Meijer DKF, and Poelstra K. "The pharmacokinetic and biological activity profile of dexamethasone targeted to sinusoidal endothelial and Kupffer cells." *Journal of Drug Targeting* **2003**, *11*(1):1-10; doi:10.1080/1061186031000072969.

Melikhova EV, Kalmykova EN, Eremin SA, and Ermolaeva TN. "Using a piezoelectric flow immunosensor for determining sulfamethoxazole in environmental samples." *Journal of Analytical Chemistry* **2006**, *61*(7):687-693; doi:10.1134/S106193480607015X.

Melnick R, Lucier G, Wolfe M, Hall R, Stancel G, Prins G*, et al.* "Summary of the National Toxicology Program's report of the endocrine disruptors low-dose peer review." *Environmental Health Perspectives* **2002**, *110*(4):427-431.

Melnick RL. "Is peroxisome proliferation an obligatory precursor step in the carcinogenicity of di(2-ethylhexyl)phthalate (DEHP)." *Environmental Health Perspectives* **2001**, *109*(5):437-442.

Melo SAS, Bautitz IR, and Nogueira RFP. "Monitoring Pharmaceuticals Photo-Fenton Degradation Process by Using Solid Phase Extraction and Liquid Chromatography." *Analytical Letters* **2008**, *41*(9):1682-1690; doi:10.1080/00032710802122545.

Melo SAS, Trovó AG, Bautitz IR, and Nogueira RFP. "Degradação de fármacos residuais por processos oxidativos avançados [Degradation of residual pharmaceuticals by advanced oxidation processes]." *Quimica Nova* **2009**, *32*(1):188-197; doi:10.1590/S0100-40422009000100034.

Menapace HM, Diaz N, and Weiss S. "Electrochemical treatment of pharmaceutical wastewater by combining anodic oxidation with ozonation." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2008**, *43*:961-968; doi:10.1080/10934520801974558.

Méndez-Arriaga F, Esplugas S, and Giménez J. "Photocatalytic degradation of non-steroidal anti-inflammatory drugs with TiO2 and simulated solar irradiation." *Water Research* **2008**, *42*(3):585-594.

Méndez-Arriaga F, Esplugas S, and Giménez J. "Degradation of the emerging contaminant ibuprofen in water by Photo-Fenton." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.07.009.

Méndez-Arriaga F, Maldonado MI, Gimenez J, Esplugas S, and Malato S. "Abatement of ibuprofen by solar photocatalysis process: Enhancement and scale up." *Catalysis Today* **2009**, *144*(1-2):112-116; doi:10.1016/j.cattod.2009.01.028.

Méndez-Arriaga F, Torres-Palma RA, Pétrier C, Esplugas S, Gimenez J, and Pulgarin C. "Ultrasonic treatment of water contaminated with ibuprofen." *Water Research* **2008**, *42*(16):4243-4248; doi:10.1016/j.watres.2008.05.033.

Méndez-Arriaga F, Torres-Palma RA, Pétrier C, Esplugas S, Gimenez J, and Pulgarin C. "Mineralization enhancement of a recalcitrant pharmaceutical pollutant in water by Advanced Oxidation Hybrid Processes." *Water Research* **2009**, *43*(16):3984-3991; doi:10.1016/j.watres.2009.06.059.

Méndez-Díaz JD, Sánchez-Polo M, Rivera-Utrilla J, and Bautista-Toledo MI. "Effectiveness Of Different Oxidizing Agents For Removing Sodium Dodecylbenzenesulphonate In Aqueous Systems." *Water Research* **2009**, *43*(6):1621-1629; doi:10.1016/j.watres.2008.12.035.

Mendonça E, Picado A, Paixão SM, Silva L, Cunha MA, Leitão S*, et al.* "Ecotoxicity tests in the environmental analysis of wastewater treatment plants: Case study in Portugal." *Journal of Hazardous Materials* **2009**, *163*(2-3):665-670; doi:10.1016/j.jhazmat.2008.07.012.

Mendoza M, Mijares A, Rojas H, Ramos M, and DiPolo R. "Trypanosoma evansi: A convenient model for studying intracellular Ca^{2+} homeostasis using fluorometric ratio imaging from single parasites." *Experimental Parasitology* **2001**, *99*(4):213-219; doi:10.1006/expr.2001.4654.

Meng Z, Chen W, and Mulchandani A. ".Removal of estrogenic pollutants from contaminated water using molecularly imprinted polymers." *Environmental Science & Technology* **2005**, *39*(22):8958-8962; doi:10.1021/es0505292.

Mennigen JA, Harris EA, Chang JP, Moon TW, and Trudeau VL. "Fluoxetine affects weight gain and expression of feeding peptides in the female goldfish brain." *Regulatory Peptides* **2009**, *155*(1-3):99-104; doi:10.1016/j.regpep.2009.01.001.

Mennigen JA, Martyniuk CJ, Crump K, Xiong H, Zhao E, Popesku J*, et al.* "Effects of fluoxetine on the reproductive axis of female goldfish (Carassius auratus)." *Physiological Genomics* **2008**, *35*(3):273-282; doi:10.1152/physiolgenomics.90263.2008.

Menshikov V and Savelieva T. "Risk assessment of organic xenobiotics in the environment." in *Pharmaceuticals in the environment - Sources, fate, effects, and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 20, pp 251-268.

Mensink BJWG and Montforts MHMM. "The ecological risks of antibiotic resistance in aquatic environments: a literature review." RIVM, 2007, 60 pp; http://library.wur.nl/WebQuery/catalog/lang/1866681.

Menzie CA, MacDonell MM, and Mumtaz M. "A phased approach for assessing combined effects from multiple stressors." *Environmental Health Perspectives* **2007**, *115*(5):807-816; doi:10.1289/ehp.9331.

Merck. "The Merck Index." Merck Publishing, 2006, 14th ed., 1889 pp; http://www.merckbooks.com/mindex/.

Merkel W. "Pharmaceuticals in the aquatic environment: A new challenge in wastewater and drinking water treatment [Arzneimittelrückstände in der aquatischen Umwelt: Neue herausforderungen an Abwasserreinigung und Trinkwasseraufbereitung?]." *Gas- und Wasserfach.Wasser, Abwasser* **2004**, *145*(5):326-335.

Mersch-Sundermann V, Reinhardt A, and Emig M. "Examination of mutagenicity, genotoxicity, and cogenotoxicity of nitro musks in the environment." *Zentralblatt fur Hygiene und Umweltmedizin* **1996**, *198*(5):429-442.

Mersch-Sundermann V, Schneider H, Freywald C, Jenter C, Parzefall W, and Knasmuller S. "Musk ketone enhances benzo(a)pyrene induced mutagenicity in human derived Hep G2 cells." *Mutation Research/Genetic Toxicology and Environmental Mutagenesis* **2001**, *495*(1-2):89-96; doi:10.1016/S1383-5718(01)00202-9.

Mersch-Sundermanno V, Kevekordeso S, and Jentero C. "Lack of Mutagenicity of Polycyclic Musk Fragrances in Salmonella typhimurium." *Toxicology In Vitro* **1998**, *12*(4):389-393; doi:10.1016/S0887-2333(98)00007-1.

Mersmann P. "Transport- und Sorptionsverhalten der Arzneimittelwirkstoffe Carbamazepin, Clofibrinsäure, Diclofenac, Ibuprofen und Propyphenazon in der wassergesättigten und -ungesättigten Zone." Technische Universität, Institut für Angewandte Geowissenschaften, Berlin, Germany, 2003.

Mersmann P, Scheytt T, and Heberer T. "Säulenversuche zum Transportverhalten von Arzneimittelwirkstoffen in der wassergesättigten Zone [Column experiments on the transport behavior of pharmaceutically active compounds in the saturated zone]." *Acta Hydrochimica et Hydrobiologica* **2003**, *30*(5-6):275-284; doi:10.1002/aheh.200390009.

Mes de TZ, Urmenyi AM, Poot AA, Wessling M, Mulder MH, and Zeeman G. "Oestrogen removal from biological pre-treated wastewater within decentralised sanitation and re-use concepts." *Water Science and Technology* **2006**, *53*(9):141-150.

Mesquita RMRS, Canario AVM, and Melo E. "Partition of Fish Pheromones between Water and Aggregates of Humic Acids. Consequences for Sexual Signaling." *Environmental Science & Technology* **2003**, *37*(4):742-746; doi:10.1021/es025987e.

Mestre AS, Pires J, Nogueira JMF, and Carvalho AP. "Activated carbons for the adsorption of ibuprofen." *Carbon* **2007**, *45*(10):1979-1988.

Mestre AS, Pires J, Nogueira JMF, Parra JB, Carvalho AP, and Ania CO. "Waste-derived activated carbons for removal of ibuprofen from solution: Role of surface chemistry and pore structure." *Bioresource Technology* **2009**, *100*(5):1720-1726; doi:10.1016/j.biortech.2008.09.039.

Metcalfe C, Bouchot GG, Metcalfe T, Li H, Beddows P, and Van Lavieren H. "Domestic Wastewater as a Source of Contaminants in Freshwater Aquifers in the Mayan Riviera Tourism Region of Mexico." **2009**, http://www.inweh.unu.edu/Coastal/POPs/2009_Dominica/Metcalfeposter.pdf.

Metcalfe C, Boxall A, Fenner K, Kolpin D, Servos M, Silberhorn E*, et al.* "Exposure Assessment of Veterinary Medicines in Aquatic Systems." *Veterinary Medicines in the Environment* **2008**:57-96.

Metcalfe CD, Alder AC, Halling-Sørenson B, Krogh K, Fenner K, Larsbo M*, et al.* "Exposure Assessment Methods for Veterinary and Human Use Medicines in the Environment: PEC vs MEC Comparisons." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 11, pp 147-171; doi:10.1007/978-3-540-74664-5_11; http://www.springerlink.com/content/q07jrq8848k022n7/?p=c4b8af41188a4509affe75a647e5ee26&pi=10.

Metcalfe CD, Koenig BG, Bennie DT, Servos M, Ternes TA, and Hirsch R. "Occurrence of neutral and acidic drugs in the effluents of Canadian sewage treatment plants." *Environmental Toxicology and Chemistry* **2003**, *22*(12):2872-2880; doi:10.1897/02-469.

Metcalfe CD, Metcalfe TL, Kiparissis Y, Koenig BG, Khan C, Hughes RJ*, et al.* "Estrogenic potency of chemicals detected in sewage treatment plant effluents as determined by in vivo assays with Japanese medaka (Oryzias latipes)." *Environmental Toxicology and Chemistry* **2001**, *20*(2):297-308; doi:10.1897/1551-5028(2001)020<0297:EPOCDI>2.0.CO;2.

Metcalfe CD, Miao XS, Koenig BG, and Struger J. "Distribution of acidic and neutral drugs in surface waters near sewage treatment plants in the lower Great Lakes, Canada." *Environmental Toxicology and Chemistry* **2003**, *22*(12):2881-2889; doi:10.1897/02-627.

Metcalfe CD, Miao X-S, Hua W, Letcher R, and Servos M. "Pharmaceuticals in the Canadian environment." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 6, pp 67-90; http://www.cplbookshop.com/contents/C772.htm.

Meteyer CU, Rideout BA, Gilbert M, Shivaprasad HL, and Oaks JL. "Pathology and proposed pathophysiology of diclofenac poisoning in free-living and experimentally exposed oriental white-backed vultures (Gyps bengalensis)." *Journal of Wildlife Diseases* **2005**, *41*(4):707-716.

Metzger JW. "Drugs in municipal landfills and landfill leachates." in *Pharmaceuticals in the environment - Sources, fate, effects, and risks*, 2nd ed.; Kummerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 10, pp 133-137; http://books.google.com/books?id=A3GQsHZCmdsC&pg=RA1-PA133&lpg=RA1-PA133&dq=Drugs+in+municpal+landfills+and+landfill+leachates&source=web&ots=IrmkhbGTVw&sig=HJFetkzmjYMc1LL0YD6dD-wrJnk&hl=en&sa=X&oi=book_result&resnum=1&ct=result.

Meulenberg EP, Peelen GOH, Lukkien E, and Koopal K. "Immunochemical detection methods for bioactive pollutants." *International Journal of Environmental Analytical Chemistry* **2005**, *85*(12-13):861-870; doi:10.1080/03067310500158180.

Meyer M. "[Incineration of old drugs?]." *Medizinische Monatsschrift fur Pharmazeuten* **1991**, *14*(12):370.

Meyer MT. "Use and Environmental Occurrence of Veterinary Pharmaceuticals in the United States." in *Pharmaceuticals in the Environment - Sources, fate, effects, and risks*, 2nd ed.; Kummerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 13, pp 155-163.

Meyer MT, Bumgarner JE, Varns JL, Daughtridge JV, Thurman EM, and Hostetler KA. "Use of radioimmunoassay as a screen for antibiotics in confined animal feeding operations and confirmation by liquid chromatography/mass spectrometry." *Science of the Total Environment* **2000**, *248*(2-3):181-187; doi:10.1016/S0048-9697(99)00541-0.

Meyer S, Eddleston M, Bailey B, Desel H, Gottschling S, and Gortner L. "Unintentional Household Poisoning in Children." *Klinische Padiatrie* **2007**, *219*:254-279.

Meyer VF, Redente EF, Barbarick KA, and Brobst R. "Biosolids Applications Affect Runoff Water Quality following Forest Fire." *Journal of Environmental Quality* **2001**, *30*(5):1528-1532.

Meyer VF, Redente EF, Barbarick KA, Brobst RB, Paschke MW, and Miller AL. "Plant and soil responses to biosolids application following forest fire." *Journal of Environmental Quality* **2004**, *33*(3):873-881.

Meyers JP, Zoeller RT, and Vom Saal FS. "A Clash of Old and New Scientific Concepts in Toxicity, with Important Implications for Public Health." *Environmental Health Perspectives* **2009**, *In press*; doi:10.1289/ehp.0900887.

Meyrowitsch DW, Toan ND, Hao HT, Dan NT, and Michael E. "A review of the present status of lymphatic filariasis in Vietnam." *Acta Tropica* **1998**, *70*(3):335-347; doi:10.1016/S0001-706X(98)00037-0.

Mezcua M, Gomez MJ, Ferrer I, Aguera A, Hernando MD, and Fernandez-Alba AR. "Evidence of 2,7/2,8-dibenzodichloro-p-dioxin as a photodegradation product of triclosan in water and wastewater samples." *Analytica Chimica Acta* **2004**, *524*(1-2):241-247; doi:10.1016/j.aca.2004.05/050.

Mezrioui N and Baleux B. "Resistance patterns of E. coli strains isolated from domestic sewage before and after treatment in both aerobic lagoon and activated sludge." *Water Research* **1994**, *28*(11):2399-2406.

Mezyk SP, Neubauer TJ, Cooper WJ, and Peller JR. "Free-Radical-Induced Oxidative and Reductive Degradation of Sulfa Drugs in Water: Absolute Kinetics and Efficiencies of Hydroxyl Radical and Hydrated Electron Reactions." *Journal of Physical Chemistry A* **2007**, *111*(37):9019-9024; doi:10.1021/jp073990k.

Miao XS and Metcalfe CD. "Determination of carbamazepine and its metabolites in aqueous samples using liquid chromatography-electrospray tandem mass spectrometry." *Analytical Chemistry* **2003**, *75*(15):3731-3738; doi:10.1021/ac030082k.

Miao XS, Yang JJ, and Metcalfe CD. "Carbamazepine and Its Metabolites in Wastewater and in Biosolids in a Municipal Wastewater Treatment Plant." *Environmental Science & Technology* **2005**, *39*(19):7469-7475.

Miao X-S, Bishay F, Chen M, and Metcalfe CD. "Occurrence of antimicrobials in the final effluents of wastewater treatment plants in Canada." *Environmental Science & Technology* **2004**, *38*(13):3533-3541; doi:10.1021/es030653q.

Miao X-S, Koenig BG, and Metcalfe CD. "Analysis of acidic drugs in the effluents of sewage treatment plants using liquid chromatography-electrospray ionization tandem mass spectrometry." *Journal of Chromatography A* **2002**, *952*(1-2):139-147; doi:10.1016/S0021-9673(02)00088-2.

Miao X-S and Metcalfe CD. "Determination of cholesterol-lowering statin drugs in aqueous samples using liquid chromatography-electrospray ionization tandem mass spectrometry." *Journal of Chromatography A* **2003**, *998*(1-2):133-141; doi:10.1016/S0021-9673(03)00645-9.

Miao X-S and Metcalfe CD. "Determination of pharmaceuticals in aqueous samples using positive and negative voltage switching microbore liquid chromatography/electrospray ionization tandem mass spectrometry." *Journal of Mass Spectrometry* **2003**, *38*(1):27-34; doi:10.1002/jms.394.

Miao X-S and Metcalfe CD. "Analysis of Pharmaceuticals as Environmental Contaminants - Analysis of neutral and acidic pharmaceuticals by liquid chromatography mass spectrometry." in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science; 2007, Chapter 2.3, pp 133-156; http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Micael J, Reis-Henriques MA, Carvalho AP, and Santos MM. "Genotoxic effects of binary mixtures of xenoandrogens (tributyltin, triphenyltin) and a xenoestrogen (ethinylestradiol) in a partial life-cycle test with Zebrafish (Danio rerio)." *Environment International* **2007**, *33*(8):1035-1039.

Michelini E, Mirasoli M, Karp M, Virta M, and Roda A. "Development of a Bioluminescence Resonance Energy-Transfer Assay for Estrogen-Like Compound in Vivo Monitoring." *Analytical Chemistry* **2004**, *76*(23):7069-7076; doi:10.1021/ac048914h.

Midtvedt T. "The ECO-SHADOW concept - A new way of following environmental impacts of antimicrobials." in *Pharmaceuticals in the environment - Sources, fate, effects, and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 23, pp 311-316.

Midtvedt T and Norin E. "Antibiotika och ekologi (Antibiotics and ecology)." Lövens Läkemedel, Malmö, 1997.

Miège C, Bados P, Brosse C, and Coquery M. "Method validation for the analysis of estrogens (including conjugated compounds) in aqueous matrices." *Trends in Analytical Chemistry* **2009**, *28*(2):237-244; doi:10.1016/j.trac.2008.11.005.

Miege C, Choubert JM, Ribeiro L, Eusebe M, and Coquery M. "Removal efficiency of pharmaceuticals and personal care products with varying wastewater treatment processes and operating conditions - conception of a database and first results." *Water Science and Technology* **2008**, *57*(1):49-56; doi:10.2166/wst.2008.823.

Miège C, Choubert JM, Ribeiro L, Eusèbe M, and Coquery M. "Fate of pharmaceuticals and personal care products in wastewater treatment plants - Conception of a database and first results." *Environmental Pollution* **2009**, *157*(5):1721-1726; doi:10.1016/j.envpol.2008.11.045.

Miege C, Favier M, Brosse C, Canler J-P, and Coquery M. "Occurrence of betablockers in effluents of wastewater treatment plants from the Lyon area (France) and risk assessment for the downstream rivers." *Talanta* **2006**, *70*(4):739-744; doi:10.1016/j.talanta.2006.07.002.

Miège C, Gabet V, Coquery M, Karolak S, Jugan ML, Oziol L*, et al.* "Evaluation of estrogenic disrupting potency in aquatic environments and urban wastewaters by combining chemical and biological analysis." *Trends in Analytical Chemistry* **2009**, *28*(2):186-195; doi:10.1016/j.trac.2008.11.007.

Mifflin AL, Konek CT, and Geiger FM. "Tracking oxytetracyline mobility across environmental interfaces by second harmonic generation." *Journal of Physical Chemistry B* **2006**, *110*(45):22577-22585; doi:10.1021/jp063089p.

Migliore L, Alessi E, Mattei D, Mancini L, Pierdominici E, and Thaller MC. "Incidence of antibiotic resistance in the microbial community of the Tiber river (Rome)." *Fresenius Environmental Bulletin* **2006**, *15*(9A, SI):1037-1040.

Migliore L, Brambilla G, Casoria P, Civitareale C, Cozzolino S, and Gaudio L. "Effect of sulphadimethoxine contamination on barley

(Hordeum distichum L., Poaceae, Liliposida)." *Agriculture, Ecosystems & Environment* **1996**, *60*(2-3):121-128; doi:10.1016/S0167-8809(96)01090-0.

Migliore L, Brambilla G, Cozzolino S, and Gaudio L. "Effect on plants of sulphadimethoxine used in intensive farming (Panicum miliaceum, Pisum sativum and Zea mays)." *Agriculture, Ecosystems & Environment* **1995**, *52*(2-3):103-110; doi:10.1016/0167-8809(94)00549-T.

Migliore L, Brambilla G, Grassitellis A, and Dojmi di Delupis G. "Toxicity and bioaccumulation of sulphadimethoxine in Artemia (Crustacea, Anostraca)." *International Journal of Salt Lake Research* **1993**, *2*(2):141-152; doi:10.1007/BF02905906.

Migliore L, Civitareale C, Brambilla G, Cozzolino S, Casoria P, and Gaudio L. "Effects of sulphadimethoxine on cosmopolitan weeds (Amaranthus retroflexus L., Plantago major L. and Rumex acetosella L.)." *Agriculture, Ecosystems & Environment* **1997**, *65*(2):163-168; doi:10.1016/S0167-8809(97)00062-5.

Migliore L, Civitareale C, Brambilla G, and Delupis GDD. "Toxicity of several important agricultural antibiotics to Artemia." *Water Research* **1997**, *31*(7):1801-1806; doi:10.1016/S0043-1354(96)00412-5.

Migliore L, Civitareale C, Cozzolino S, Casoria P, Brambilla G, and Gaudio L. "Laboratory models to evaluate phytotoxicity of sulphadimethoxine on terrestrial plants." *Chemosphere* **1998**, *37*(14-15):2957-2961; doi:10.1016/S0045-6535(98)00336-1.

Migliore L, Cozzolino S, and Fiori M. "Phytotoxicity to and uptake of flumequine used in intensive aquaculture on the aquatic weed, Lythrum salicaria L." *Chemosphere* **2000**, *40*(7):741-750; doi:10.1016/S0045-6535(99)00448-8.

Migliore L, Cozzolino S, and Fiori M. "Phytotoxicity to and uptake of enrofloxacin in crop plants." *Chemosphere* **2003**, *52*(7):1233-1244; doi:10.1016/S0045-6535(03)00272-8.

Migliore L, Dojmi di Delupis G, Cappellaro H, and Brambilla G. "Drugs in aquaculture: monitoring of contamination and proposal for its reduction by the use of Artemia salina (L.) in lakes and reservoirs." *Strategies for Lake Ecosystems Beyond* **2000**:291-294.

Migliore L, Godeas F, De Filippis SP, Mantovi P, Barchi D, Testa C*, et al.* "Hormetic effect(s) of tetracyclines as environmental contaminant on Zea mays." *Environmental Pollution* **2010**, *158*(1):129-134; doi:10.1016/j.envpol.2009.07.039.

Miguel-Queralt S and Hammond GL. "Sex Hormone-Binding Globulin in Fish Gills Is a Portal for Sex Steroids Breached by Xenobiotics." *Endocrinology* **2008**, *149*(9):4269-4275; doi:10.1210/en.2008-0384.

Mihaich EM, Borgert CJ, Brighty GC, Kortenkamp A, Laenge R, Snyder SA*, et al.* "Evaluating simple and complex mixtures containing pharmaceuticals in the environment." in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Willams RT, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 7, pp 239-267.

Mihelcic JR, Zimmerman JB, and Ramaswami A. "Integrating Developed and Developing World Knowledge into Global Discussions and Strategies for Sustainability. 1. Science and Technology." *Environmental Science & Technology* **2007**, *41*(10):3415-3421.

Mikula P, Dobsikova R, and Svobodova Z. "The evaluation of xenoestrogenic potential of propylparaben in zebrafish (Danio rerio)." *Toxicology Letters* **2006**, *164*(Supplement 1):S169; doi:10.1016/j.toxlet.2006.07.011.

Milan DJ, Peterson TA, Ruskin JN, Peterson RT, and MacRae CA. "Drugs That Induce Repolarization Abnormalities Cause Bradycardia in Zebrafish." *Circulation* **2003**, *107*(10):1355-1358; doi:10.1161/01.cir.0000061912.88753.87.

Milius S. "Fish nature: Sometimes shy, sometimes bold." *Science News* **1998**, *154*(17):263.

Milius S. "Dogs and cats in their dotage." *Science News* **1998**, *154*(16):252.

Milius S. "Prozac works on clams and mussels." *Science News* **1998**, *153*(4):63.

Millar J, MacKinnon W, Struthers MV, and Vass C. "A pilot study to investigate the use of installment dispensing as a method of reducing drug wastage owing to adverse drug reactions." *British Journal of General Practice* **2003**, *53*(492):550-552.

Miller C. 2008, "Drug Free Water Act of 2008." Senate and House of Representatives of the United States of America in Congress, 3 pp; http://www.opencongress.org/bill/110-h6451/show.

Miller C. 2009, "Drug Free Water Act of 2009." Senate and House of Representatives of the United States of America in Congress, 3 pp; http://www.opencongress.org/bill/111-h276/show.

Miller G. "Drug Targeting: Breaking down barriers." *Science* **2002**, *297*(5584):1116-1118; doi:10.1126/science.297.5584.1116.

Miller G and Holn N. "PPCPs in the Illinois Environment: Current Information and Research Recommendations." Illinois Sustainable Technology Center ISTC, March, 2009, http://www.istc.illinois.edu/info/library_docs/tr/tr39.pdf.

Miller GW. "Public Acceptance: The Greatest Barrier to Widespread Water Reuse." *Water Practice & Technology* **2008**, *3*(2); doi:10.2166/wpt.2008.035.

Miller MA and Schram ST. "Growth and contaminant dynamics of Lake Superior lake trout." *Journal of Great Lakes Research* **2000**, *26*(1):102-111.

Miller MR, Wentz E, and Ong SK. "Acetaminophen alters estrogenic responses in vitro: inhibition of estrogen-dependent vitellogenin production in trout liver cells." *Toxicological Sciences* **1999**, *48*(1):30-37.

Miller RA, Walker RD, Baya A, Clemens K, Coles M, Hawke JP*, et al.* "Antimicrobial susceptibility testing of aquatic bacteria: Quality control disk diffusion ranges for Escherichia coli ATCC 25922 and Aeromonas salmonicida subsp salmonicida ATCC 33658 at 22 and 28ºC." *Journal of Clinical Microbiology* **2003**, *41*(9):4318-4323; doi:10.1128/JCM.41.9.4318-4323.2003.

Miller RA, Walker RD, Carson J, Coles M, Coyne R, Dalsgaard I*, et al.* "Standardization of a broth microdilution suceptibility testing method to determine minimum inhibitory concentrations of aquatic bacteria." *Diseases of Aquatic Organisms* **2005**, *64*(3):211-222; doi:10.3354/dao064211.

Miller TR, Heidler J, Chillrud SN, DeLaquil A, Ritchie JC, Mihalic JN*, et al.* "Fate of Triclosan and Evidence for Reductive Dechlorination of Triclocarban in Estuarine Sediments." *Environmental Science & Technology* **2008**, *42*(12):4570-4576; doi:10.1021/es702882g.

Mills G, Greenwood R, and Roig B. "Workshop Report—KNAPPE (European Union Sixth Framework Project) final meeting." *Journal of Environmental Monitoring* **2008**, *11*(1):21-22; doi:10.1039/b819163h.

Mills GA, Vrana B, Allan I, Alvarez DA, Huckins JN, and Greenwood R. "Trends in monitoring pharmaceuticals and personal-care products in the aquatic environment by use of passive sampling devices." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1153-1157; doi:10.1007/s00216-006-0773-y.

Mills LJ and Chichester C. "Review of evidence: Are endocrine-disrupting chemicals in the aquatic environment impacting fish populations?" *Science of the Total Environment* **2005**, *343*(1-3):1-34.

Milnes MR, Bermudez DS, Bryan TA, Edwards TM, Gunderson MP, Larkin ILV*, et al.* "Contaminant-induced feminization and demasculinization of nonmammalian vertebrate males in aquatic environments." *Environmental Research* **2006**, *100*(1):3-17; doi:10.1016/j.envres.2005.04.002.

Milstein M. "Park sewage systems on the verge of failure, internal report states." Billingsgazette.com, 1999.

Mimeault C. "Human pharmaceuticals in the environment: Effects of fibrate drugs on two fish species." Doctoral Dissertation, University of Ottawa, Ottawa, Ontario, Canada, 2008. 168 pp.

Mimeault C, Trudeau VL, and Moon TW. "Waterborne gemfibrozil challenges the hepatic antioxidant defense system and down-regulates peroxisome proliferator-activated receptor beta (PPARβ) mRNA levels in male goldfish (Carassius auratus)." *Toxicology* **2006**, *228*(2-3):140-150; doi:10.1016/j.tox.2006.08.025.

Mimeault C, Woodhouse AJ, Miao XS, Metcalfe CD, Moon TW, and Trudeau VL. "The human lipid regulator, gemfibrozil bioconcentrates and reduces testosterone in the goldfish, Carassius auratus." *Aquatic Toxicology* **2005**, *73*(1):44-54; doi:10.1016/j.aquatox.2005.01.009.

Minagh E, Hernan R, O'Rourke K, Lyng FM, and Davoren M. "Aquatic ecotoxicity of the selective serotonin reuptake inhibitor sertraline hydrochloride in a battery of freshwater test species." *Ecotoxicology and Environmental Safety* **2009**, *72*(2):434-440; doi:10.1016/j.ecoenv.2008.05.002.

Minh TB, Leung HW, Loi IH, Chan WH, So MK, Mao JQ*, et al.* "Antibiotics in the Hong Kong metropolitan area: Ubiquitous distribution and fate in Victoria Harbour." *Marine Pollution Bulletin* **2009**, *58*(7):1052-1062; doi:10.1016/j.marpolbul.2009.02.004.

Minier C, Borghi V, Moore MN, and Porte C. "Seasonal variation of MXR and stress proteins in the common mussel, Mytilus

galloprovincialis." *Aquatic Toxicology* **2000**, *50*(3):167-176; doi:10.1016/S0166-445X(99)00104-6.

Ministry for the Environment and Nature Conservations Agriculture and Consumer Proteection of the State of North Rhine Westphalia. "Untersuchungen zum eintrag und zur elimination von gefhrlichen stoffen in kommunalen klaranlagen." STP Cologne Stammheim, Dusseldorf, Germany, 2004.

Minnesota Pollution Control Agency. "Endocrine Disrupting Compounds: A Report to the Minnesota Legislature." 15 January, 2008, http://archive.leg.state.mn.us/docs/2008/mandated/080064.pdf.

Minnesota Pollution Control Agency "Healthcare waste fact sheets." 2008, http://www.pca.state.mn.us/industry/healthcare.html.

Mintzer J and Burns A. "Anticholinergic Side-effects of drugs in elderly people." *Journal of the Royal Society of Medicine* **2000**, *93*(9):457-462.

Miracle A, Ankley G, and Lattier D. "Expression of two vitellogenin genes (vg1 and vg3) in fathead minnow (Pimephales promelas) liver in response to exposure to steroidal estrogens and androgens." *Ecotoxicology and Environmental Safety* **2006**, *63*(3):337-342; doi:10.1016/j.ecoenv.2005.12.002.

Miralto A, Barone G, Romano G, Poulet SA, Ianora A, Russo GL*, et al.* "The insidious effect of diatoms on copepod reproduction." *Nature* **1999**, *402*(6758):173-176; doi:10.1038/46023.

Miranda CD and Zemelman R. "Antibiotic Resistant Bacteria in Fish from the Concepción Bay, Chile." *Marine Pollution Bulletin* **2001**, *42*(11):1096-1102; doi:10.1016/S0025-326X(01)00093-5.

Miranda CD and Zemelman R. "Bacterial resistance to oxytetracycline in Chilean salmon farming." *Aquaculture* **2002**, *212*(1-4):31-47; doi:10.1016/S0044-8486(02)00124-2.

Mispagel C, Allinson G, Allinson M, Shiraishi F, Nishikawa M, and Moore M. "Observations on the Estrogenic Activity and Concentration of 17β-Estradiol in the Discharges of 12 Wastewater Treatment Plants in Southern Australia." *Archives of Environmental Contamination and Toxicology* **2009**, *56*(4):631-637; doi:10.1007/s00244-008-9261-z.

Mispagel C, Shiraishi F, Allinson M, and Allinson G. "Estrogenic activity of treated municipal effluent from seven sewage treatment plants in Victoria, Australia." *Bulletin of Environmental Contamination and Toxicology* **2005**, *74*(5):853-856; doi:10.1007/s00128-005-0659-2.

Mispagel J and Gray JT. "Antibiotic resistance from wastewater oxidation ponds." *Water Environment Research* **2005**, *77*(7):2996-3002.

MISTRA "MistraPharma." Web Page maintained by MISTRA, the foundation for strategic environmental research 2008, http://www.mistra.org/mistra/english/researchresults/researchprogrammes/activeprogrammes/mistrapharma.4.744b7eb1172d57470a80006763.html.

MistraPharma "Welcome to MistraPharma." 2009, http://www.mistrapharma.se/.

Mistry P, Stewart AJ, Dangerfield W, Okiji S, Liddle C, Bootle D*, et al.* "In Vitro and in Vivo Reversal of P-Glycoprotein-mediated Multidrug Resistance by a Novel Potent Modulator, XR9576." *Cancer Research* **2001**, *61*(2):749-758.

Mitani K, Fujioka M, and Kataoka H. "Fully automated analysis of estrogens in environmental waters by in-tube solid-phase microextraction coupled with liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2005**, *1081*(2):218-224; doi:10.1016/j.chroma.2005.05.058.

Mitani K and Kataoka H. "Determination of fluoroquinolones in environmental waters by in-tube solid-phase microextraction coupled with liquid chromatography-tandem mass spectrometry." *Analytica Chimica Acta* **2006**, *562*(1):16-22; doi:10.1016/j.chroma.2005.05.058.

Mitchell JF. "Oral dosage forms that should not be crushed." Institute for Safe Medication Practices ISMP, Horsham, PA, 2008, 17 pp; http://www.ismp.org/Tools/DoNotCrush.pdf.

Mitjans D and Ventura F. "Determination of musks and other fragrance compounds at ng/L levels using CLSA (closed loop stripping analysis) and GC/MS detection." *Water Science and Technology* **2004**, *50*(5):119-123.

Mitjans D and Ventura F. "Determination of fragrances at ng/L levels using CLSA and GC/MS detection." *Water Science and*

Technology **2005**, *52*(10-11):145-150.

Mitsui N, Tooi O, and Kawahara A. "Vitellogenin-inducing activities of natural, synthetic, and environmental estrogens in primary cultured Xenopus laevis hepatocytes." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2007**, *146*(4):581-587; doi:10.1016/j.cbpc.2007.07.004.

Mittal A, Kaur D, and Mittal J. "Batch and Bulk Removal of a Triarymethane Dye - Fast Green FCF, from Wastewater by Adsorption over Waste Materials." *Journal of Hazardous Materials* **2009**, *163*(2-3):568-577; doi:10.1016/j.jhazmat.2008.07.005.

Miyazaki T, Yamagishi T, and Matsumoto M. "Residues of 4-chloro-1-(2,4-dichlorophenoxy)-2-methoxybenzene(triclosan methyl) in aquatic biota." *Bulletin of Environmental Contamination and Toxicology* **1984**, *32*(2):227-232; doi:10.1007/BF01607490.

Mlot C. "Antidotes for antibiotic use on the farm." *Bioscience* **2000**, *50*(11):955-960; doi:10.1641/0006-3568(2000)050[0955:AFAUOT]2.0.CO;2.

Mlot C. "Antibiotics in nature: Beyond biological warfare." *Science* **2009**, *324*(5935):1637-1639; doi:10.1126/science.324_1637.

Moeder M and Langez F. "Membrane-assisted liquid-liquid extraction trace analysis of pharmaceutical compounds in aquatic environments." *LC GC Europe* **2007**, *20*(2):97-103.

Moeder M, Schrader S, Winkler M, and Popp P. "Solid-phase microextraction-gas chromatography-mass spectrometry of biologically active substances in water samples." *Journal of Chromatography A* **2000**, *873*(1):95-106; doi:10.1016/S0021-9673(99)01256-X.

Moeller N, Mueller-Seitz E, Scholz O, Hillen W, Bergwerff AA, and Petz M. "A new strategy for the analysis of tetracycline residues in foodstuffs by a surface plasmon resonance biosensor." *European Food Research and Technology* **2007**, *224*(3):285-292; doi:10.1007/s00217-006-0392-z.

Moens LN, Smolders R, van der Ven K, van Remortel P, Del-Favero J, and De Coen WM. "Effluent impact assessment using micro array-based analysis in common carp: A systems toxicology approach." *Chemosphere* **2007**, *67*(11):2293-2304; doi:10.1016/j.chemosphere.2006.09.092.

Moens LN, van der Ven K, Van Remortel P, Del-Favero J, and De Coen WM. "Expression profiling of endocrine-disrupting compounds using a customized cyprinus carpio cDNA microarray." *Toxicological Sciences* **2006**, *93*(2):298-310; doi:10.1093/toxsci/kfl057.

Moffat LT. "The development and characterization of fish gene expression bioassays for detecting aquatic endocrine disruptors and other emerging contaminants." Doctoral Dissertation, University of Massachusetts Amherst, Amherst, MA, 2008. 266 pp; http://scholarworks.umass.edu/dissertations/AAI3325132/, http://proquest.umi.com/pqdlink?did=1609279521&Fmt=7&clientI.

Moffatt AC, Osselton MD, and Widdop B. "Clarke's Analysis of Drugs and Poisons in Pharmaceuticals, Body Fluids and Postmortem Material." Great Britain, The Pharmaceutical Press, 2004, 3rd ed., 654 pp; http://www.medicinescomplete.com/mc/clarke/current/toc.htm.

Moffitt CM and Kiryu Y. "Acute and chronic toxicity following parenteral application of erythromycin to maturing spring Chinook salmon held at two water temperatures." *Journal of Aquatic Animal Health* **2001**, *13*(1):8-19; doi:10.1577/1548-8667(2001)013<0008:AACTFP>2.0.CO;2.

Mogensen BB, Pritzl G, Rastogi S, Glesne O, Hedlund B, Hirvi J-P*, et al.* "Musk compounds in the Nordic environment." TemaNord 2004:503, 2004, 69 pp; http://www.ust.is/ness/docs/Musk-publication2004.pdf.

Mohan D, Singh KP, and Ghosh D. "Removal of α-Picoline, β-Picoline, and γ-Picoline from Synthetic Wastewater Using Low Cost Activated Carbons Derived from Coconut Shell Fibers." *Environmental Science & Technology* **2005**, *39*(13):5076-5086.

Mohan SV, Prakasham RS, Satyavathi B, Annapurna J, and Ramakrishna SV. "Biotreatability studies of pharmaceutical wastewater using an anaerobic suspended film contact reactor." *Water Science and Technology* **2001**, *43*(2):271-276.

Möhle E, Kempter C, Kern A, and Metzger JW. "Untersuchungen zum Abbau von Pharmaka in kommunalen Kläranlagen mit HPLC-Electrospray-Massenspektrometrie [Examination of the degradation of drugs in municipal sewage plants using liquid chromatography-electrospray mass spectrometry]." *Acta Hydrochimica et Hydrobiologica* **1999**, *27*(6):430-436.

Mohle E and Metzger JW. "Drugs in municipal sewage effluents: screening and biodegradation studies." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American

Chemical Society; Washington, DC, 2001, ACS Symposium Series, Chapter 11, pp 192-205; doi:10.1021/bk-2001-0791.ch011; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Mohring SAI, Strzysch I, Fernandes MR, Kiffmeyer TK, Tuerk J, and Hamscher G. "Degradation and Elimination of Various Sulfonamides during Anaerobic Fermentation: A Promising Step on the Way to Sustainable Pharmacy?" *Environmental Science & Technology* **2009**, *43*(7):2569-2574; doi:10.1021/es802042d.

Moideen SVK, Houghton PJ, Rock P, Croft SL, and Aboagye-Nyame F. "Activity of extracts and naphthoquinones from Kigelia pinnata against Trypanosorna brucei brucei and Trypanosoma brucei rhodesiense." *Planta Medica* **1999**, *65*(6):536-540.

Molander L, Agerstrand M, and Rudén C. "WikiPharma - a freely available, easily accessible, interactive and comprehensive database for environmental effect data for pharmaceuticals." *Regulatory Toxicology and Pharmacology* **2009**, *55*(3):367-371; doi:10.1016/j.yrtph.2009.08.009.

Moldovan Z. "Occurrences of pharmaceutical and personal care products as micropollutants in rivers from Romania." *Chemosphere* **2006**, *64*(11):1808-1817.

Moldovan Z, Chira R, and Alder AC. "Environmental exposure of pharmaceuticals and musk fragrances in the Somes River before and after upgrading the municipal wastewater treatment plant Cluj-Napoca, Romania." *Environmental Science and Pollution Research* **2009**, *16*(1):46-54; doi:10.1007/s11356-008-0047-7.

Moldovan Z, Schmutzer G, Tusa F, Calin R, and Alder AC. "An overview of pharmaceuticals and personal care products contamination along the river Somes watershed, Romania." *Journal of Environmental Monitoring* **2007**, *9*(9):986-993; doi:10.1039/b704076h.

Molina-Molina J-M, Escande A, Pillon A, Gomez E, Pakdel F, Cavaillès V*, et al.* "Profiling of benzophenone derivatives using fish and human estrogen receptor-specific in vitro bioassays." *Toxicology and Applied Pharmacology* **2008**, *232*(3):384-395; doi:10.1016/j.taap.2008.07.017.

Molinari R, Argurio P, and Poerio T. "Flux enhancement of stagnant sandwich compared to supported liquid membrane systems in the removal of Gemfibrozil from waters." *Journal of Membrane Science* **2009**, *340*(1-2):26-34; doi:10.1016/j.memsci.2009.05.012.

Molinari R, Argurio P, Poerio T, and Bonaddio F. "Photo assisted fenton in a batch and a membrane reactor for degradation of drugs in water." *Separation Science and Technology* **2007**, *42*(7):1597-1611; doi:10.1080/01496390701290417.

Molinari R, Argurio P, Poerio T, and Caruso A. "Stagnant sandwich and supported liquid membrane systems for removal of pharmaceuticals in water." *Desalination* **2006**, *199*(1-3):529-531; doi:10.1016/j.desal.2006.03.188.

Molinari R, Caruso A, Argurio P, and Poerio T. "Diclofenac Transport through Stagnant Sandwich and Supported Liquid Membrane Systems." *Industrial and Engineering Chemistry Research* **2006**, *45*(26):9115-9121.

Molinari R, Caruso A, Argurio P, and Poerio T. "Degradation of the drugs Gemfibrozil and Tamoxifen in pressurized and de-pressurized membrane photoreactors using suspended polycrystalline TiO_2 as catalyst." *Journal of Membrane Science* **2008**, *319*(1-2):54-63; doi:10.1016/j.memsci.2008.03.033.

Molinari R, Pirillo F, Loddo V, and Palmisano L. "Heterogeneous photocatalytic degradation of pharmaceuticals in water by using polycrystalline TiO2 and a nanofiltration membrane reactor." *Catalysis Today* **2006**, *118*(1-2):205-213; doi:10.1016/j.cattod.2005.11.091.

Möller P, Dulski P, Bau M, Knappe A, Pekdeger A, and Sommer-von Jarmersted C. "Anthropogenic gadolinium as a conservative tracer in hydrology." *Journal of Geochemical Exploration* **2000**, *69-70*:409-414; doi:10.1016/S0375-6742(00)00083-2.

Moller P, Morteani G, and Dulski P. "Anomalous gadolinium, cerium, and yttrium contents in the Adige and Isarco river waters and in the water of their tributaries (Provinces Trento and Bolzano/Bozen, NE Italy)." *Acta Hydrochimica et Hydrobiologica* **2003**, *31*(3):225-239; doi:10.1002/aheh.200300492.

Moller P, Paces T, Dulski P, and Morteani G. "Anthropogenic Gd in surface water, drainage system, and the water supply of the city of Prague, Czech Republic." *Environmental Science & Technology* **2002**, *36*(11):2387-2394; doi:10.1021/es010235q.

Molyneux DH. "Vector-borne parasitic diseases - an overview of recent changes." *International Journal for Parasitology* **1998**, *28*(6):927-934; doi:10.1016/S0020-7519(98)00067-8.

Mommsen TP and Moon TW, Eds., "Environmental Toxicology." Elsevier, Amsterdam, 2005, 562 pp; http://www.lavoisier.fr/notice/gb281766.html.

Mompelat S, LeBot B, and Thomas O. "Occurrence and fate of pharmaceutical products and by-products, from resource to drinking water." *Environment International* **2009**, *35*(5):803-814; doi:10.1016/j.envint.2008.10.008.

Mondragon A, Wilkinson SR, Taylor MC, and Kelly JM. "Optimization of conditions for growth of wild-type and genetically transformed Trypanosoma cruzi on agarose plates." *Parasitology* **1999**, *118*(5):461-467.

Monika Möder PBFLSSWL. "Determination of Endocrine Disrupting Compounds and Acidic Drugs in Water by Coupling of Derivatization, Gas Chromatography and Negative-Chemical Ionization Mass Spectrometry." *CLEAN - Soil, Air, Water* **2007**, *35*(5):444-451; doi:10.1002/clen.200720001.

Monosson E. "Chemical mixtures: considering the evolution of toxicology and chemical assessment." *Environmental Health Perspectives* **2005**, *113*(4):383; doi:10.1289/ehp.6987.

Mons MN, Hoogenboom AC, and Noij THM. "Pharmaceuticals and drinking water supply in the Netherlands." Kiwa N.V. Water Research, BTO 2003.040, Nieuwegein, The Netherlands, 2003.

Mons MN, Van Genderen J, and Van Dijk-Looijard AM. "Inventory of the presence of pharmaceuticals in Dutch water." Abschlussbericht des Projektes von Vewin, RIWA und KIWA, Nieuwegein, Niederlande, 2000.

Monserrat JM, Geracitano LA, and Bianchini A. "Current and Future Perspectives Using Biomarkers to Assess Pollution in Aquatic Ecosystems." *Journal of Toxicology and Environmental Health* **2003**, *9*(5):255 - 269.

Montague P, "Drugs in the water." *Rachel's Environmental HealthWeekly*, 3 September, 1998, 614: http://www.rachel.org/bulletin/index.cfm?St=4.

Montague P. "Emptying our medicine cabinets into our waters." *Earth Island Journal* **1999**, *14*(1):30.

Montague P, "Pay dirt from the human genome." *Rachel's Environmental HealthWeekly*, 5 July, 2000, 702: http://www.rachel.org/bulletin/index.cfm?St=4 [select back issue #702].

Montanaro S, Lhiaubet-Vallet V, Iesce M, Previtera L, and Miranda MA. "A Mechanistic Study on the Phototoxicity of Atorvastatin: Singlet Oxygen Generation by a Phenanthrene-like Photoproduct." *Chemical Research in Toxicology* **2009**, *22*(1):173-178; doi:10.1021/tx800294z.

Monteiro SC and Boxall A. "Factors affecting the degradation of pharmaceuticals in the soil environment." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2546-2554; doi:10.1897/08-657.1.

Monteiro SC and Boxall ABA. "Occurrence and Fate of Human Pharmaceuticals in the Environment." in *Reviews of Environmental Contamination and Toxicology*, Whitacre DM, Ed., Springer; New York, N.Y., 2009, Chapter 2, pp 54-154; doi:10.1007/978-1-4419-1157-5_2; http://www.springerlink.com/content/m822827m67473745/.

Montes R, Rodríguez I, Rubí E, and Cela R. "Dispersive liquid-liquid microextraction applied to the simultaneous derivatization and concentration of triclosan and methyltriclosan in water samples." *Journal of Chromatography A* **2009**, *1216*(2):205-210; doi:10.1016/j.chroma.2008.11.068.

Montforts M, Spindler P, Taylor D, and Williams R. "Joint DIA/HESI/SAPS Conference on Environmental Risk Assessment of Human Medicines." in Stockholm Upplands Vasby, Sweden, 22-23 May, 2006.

Montforts MHMM. "Environmental Risk Assessment for Veterinary Medicinal Products Part 1. Non-immunological drug substances. Second update." 18 February, 2004, 88 pp; http://hdl.handle.net/10029/8891.

Montforts MHMM. "Methodological aspects concerning the environmental risk assessment for medicinal products - research challenges." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 32, pp 439-462.

Montforts MHMM. "Validation of the EU environmental risk assessment for veterinary medicines [Validatie van de Europese milieurisicobeoordeling van diergeneesmiddelen]." Doctoral Dissertation, Leiden University, Bilthoven, The Netherlands, 2005. 173 pp; https://www.openaccess.leidenuniv.nl/handle/1887/648?mode=more.

Montforts MHMM. "Validation of the exposure assessment for veterinary medicinal products." *Science of the Total Environment* **2006**, *358*(1-3):121-136; doi:10.1016/j.scitotenv.2005.04.008.

Montforts MHMM. "The trigger values in the environmental risk assessment for (veterinary) medicines in the European Union: a critical appraisal; De drempelwaarden in de milieurisicobeoordeling voor (dier)geneesmiddelen in de Europese Unie: een kritische beschouwing." 6 December, 2007, 45 pp; http://hdl.handle.net/10029/7379, http://rivm.openrepository.com/rivm/handle/10029/7379.

Montforts MHMM. "Methodological aspects concerning the environmental risk assessment for medicinal products; research challenges." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 24, pp 303-408; doi:10.1007/978-3-540-74664-5_24; http://www.springerlink.com/content/xj122j8772g15x82/?p=9ed3dcab782d422fa25c2de402461f54&pi=23.

Montforts MHMM, Brandt I, and Hutchinson TH. "Summary of workshop on environmental assessment of human medicines: Development and use of aquatic toxicity data." *Drug Information Journal* **2007**, *41*(2):203-209.

Montforts MHMM and de Knecht JA. "European medicines and feed additives regulation are not in compliance with environmental legislation and policy." *Toxicology Letters* **2002**, *131*(1-2):125-136; doi:10.1016/S0378-4274(02)00048-6.

Montforts MHMM and de Knecht JA. "European Medicines and Feed Additives Regulation Are Not in Compliance with Environmental Legislation and Policy." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp 271-288; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Montforts MHMM, Kalf DF, van Vlaardingen PLA, and Linders JBHJ. "The exposure assessment for veterinary medicinal products." *Science of the Total Environment* **1999**, *225*(1-2):119-133; doi:10.1016/S0048-9697(98)00338-6.

Montforts MHMM, van Rijswick HFMW, and Udo de Haes HA. "Legal constraints in EU product labelling to mitigate the environmental risk of veterinary medicines at use." *Regulatory Toxicology and Pharmacology* **2004**, *40*(3):327-335; doi:10.1016/j.yrtph.2004.08.006.

Montgomery J. "Strange progesterone saga." *Medical Laboratory Observer* **2004**, *36*(8):8.

Montiel A. "Drug residues and treatment of hospital effluent." *Environment, Risques & Sante* **2006**, *5*(4):296-300.

Moore DRJ and Caux P-Y. "Estimating low toxic effects." *Environmental Toxicology and Chemistry* **1997**, *16*(4):794-801.

Moore KA. "The analytical and pharmacological characterization of α-benzvl-n-methylphenethylamine, an impurity in illicit methamphetamine synthesis." Doctoral Dissertation, Virginia Commonwealth University, Richmond, VA, 1995. 144 pp.

Moore KD. "The use of liquid chromatography coupled to tandem mass spectrometry for the quantitation of pharmaceuticals and biological analytes in complex samples." Doctoral Dissertation, The University of Kansas, Lawrence, KS, 2004. 203 pp.

Moore MN. "Do nanoparticles present ecotoxicological risks for the health of the aquatic environment?" *Environment International* **2006**, *32*(8):967-976; doi:10.1016/j.envint.2006.06.014.

Moore MR and Shaw G. "Aquatic Toxicology." *Therapeutic Drug Monitoring* **2000**, *22*(1):58-60.

Moore MT, Greenway SL, Farris JL, and Guerra B. "Assessing caffeine as an emerging environmental concern using conventional approaches." *Archives of Environmental Contamination and Toxicology* **2008**, *54*(1):31-35; doi:10.1007/s00244-007-9059-4.

Moosvi S and Madamwar D. "An integrated process for the treatment of CETP wastewater using coagulation, anaerobic and aerobic process." *Bioresource Technology* **2007**, *98*(17):3384-3392; doi:10.1016/j.biortech.2006.10.043.

Morales S, Canosa P, Rodriguez I, Rubi E, and Cela R. "Microwave assisted extraction followed by gas chromatography with tandem mass spectrometry for the determination of triclosan and two related chlorophenols in sludge and sediments." *Journal of Chromatography A* **2005**, *1082*(2):128-135; doi:10.1016/j.chroma.2005.05.059.

Morales-Cid G, Caì□rdenas S, Simonet BM, and Valcaì□rcel M. "Fully Automatic Sample Treatment by Integration of Microextraction by Packed Sorbents into Commercial Capillary Electrophoresis - Mass Spectrometry Equipment: Application to the Determination of Fluoroquinolones in Urine." *Analytical Chemistry* **2009**, *81*(8):3188-3193; doi:10.1021/ac900234j.

Morales-Munoz S, Luque-Garcia JL, and Luque de Castro MD. "Continuous microwave-assisted extraction coupled with derivatization and fluorimetric monitoring for the determination of fluoroquinolone antibacterial agents from soil samples." *Journal of Chromatography A* **2004**, *1059*(1-2):25-31; doi:10.1016/j.chroma.2004.09.086.

Morales-Munoz S, Luque-Garcia JL, Ramos MJ, Fernandez-Alba A, and Luque de Castro MD. "Sequential superheated liquid extraction of pesticides, pharmaceutical and personal care products with different polarity from marine sediments followed by gas chromatography mass spectrometry detection." *Analytica Chimica Acta* **2005**, *552*(1-2):50-59; doi:10.1016/j.aca.2005.07.042.

Morales-Munoz S, Luque-Garcia JL, Ramos MJ, Martinez-Bueno MJ, and Luque de Castro MD. "Sequential automated focused microwave-assisted Soxhlet extraction of compounds with different polarity from marine sediments prior to gas chromatography mass spectrometry detection." *Chromatographia* **2005**, *62*(1-2):69-74; doi:10.1365/s10337-005-0574-z.

Moran KD. "Household pharmaceutical waste: Regulatory and management issues." TDC Environmental, LLC, August, 2004, 24 pp; http://www.tdcenvironmental.com/HouseholdPharmWasteMgtIssuesFinal.pdf.

Morando MB, Medeiros LR, and McDonald MD. "Fluoxetine treatment affects nitrogen waste excretion and osmoregulation in a marine teleost fish." *Aquatic Toxicology* **2009**, *93*(4):253-260; doi:10.1016/j.aquatox.2009.03.011.

Moreira AB, Dias ILT, Neto GO, Zagatto EAG, and Kubota LT. "Solid-phase fluorescence spectroscopy for the determination of acetylsalicylic acid in powdered pharmaceutical samples." *Analytica Chimica Acta* **2004**, *523*(1):49-52; doi:10.1016/j.aca.2004.06.011.

Moreira AB, Dias ILT, Neto GO, Zagatto EAG, and Kubota LT. "Simultaneous spectrofluorimetric determination of paracetamol and caffeine in pharmaceutical preparations in solid-phase using partial least squares multivariate calibration." *Analytical Letters* **2006**, *39*(2):349-360; doi:10.1080/00032710500477092.

Moreira PI, Custódio JBA, Nunes E, Moreno A, Seiça R, Oliveira CR*, et al.* "Estradiol affects liver mitochondrial function in ovariectomized and tamoxifen-treated ovariectomized female rats." *Toxicology and Applied Pharmacology* **2007**, *221*(1):102-110.

Moreno Galvez A, Garcia Mateo JV, and Martinez Calatayud J. "Study of various indicating redox systems on the indirect flow-injection biamperometric determination of pharmaceuticals." *Analytica Chimica Acta* **1999**, *396*(2-3):161-170; doi:10.1016/S0003-2670(99)00440-7.

Moreno Galvez A, Garcia Mateo JVG, and Martinez Calatayud J. "Simultaneous dissolution profiles of two drugs in pharmaceutical formulations by an FIA manifold." *Journal of Pharmaceutical and Biomedical Analysis* **2002**, *27*(6):1027-1036; doi:10.1016/S0731-7085(01)00598-2.

Moreno-Bondi MC, Marazuela MD, Herranz S, and Rodriguez E. "An overview of sample preparation procedures for LC-MS multiclass antibiotic determination in environmental and food samples." *Analytical and Bioanalytical Chemistry* **2009**, *395*(4):921-946; doi:10.1007/s00216-009-2920-8.

Moreno-Caselles J, Prats D, Moral R, Perez-Murcia MD, Perez-Espinosa A, Paredes C*, et al.* "Effects of linear alkylbenzene sulphonates (LASs) on exogenous organic matter content and evolution in sewage sludge-amended soils." *Communications in Soil Science and Plant Analysis* **2006**, *37*(15-20):2615-2625.

Morgan ME, Liu K, and Anderson BD. "Microscale titrimetric and spectrophotometric methods for determination of ionization constants and partition coefficients of new drug candidates." *Journal of Pharmaceutical Sciences* **1998**, *87*(2):238-245; doi:10.1021/js970057s.

Morgan MJ. "Memory deficits associated with recreational use of "ecstasy" (MDMA)." *Psychopharmacology* **1999**, *141*(1):30-36; doi:10.1007/s002130050803.

Morgan TKL. "Down the Drain: Pharmaceutical Waste Disposal in the United States." *Environmental Law & Policy Review* **2009**, *34*.

Morgan TM. "The economic impact of wasted prescription medication in an outpatient population of older adults." *Journal of Family Practice* **2001**, *50*(9):779-781.

Mori T, Iida M, Ishibashi H, Kohra S, Takao Y, Takemasa T*, et al.* "Hormonal activity of polycyclic musks evaluated by reporter gene assay." *Environmental Sciences* **2007**, *14*(4):195-202.

Mori T, Morita F, Inokuchi A, Takao Y, Kohra S, Tominaga N*, et al.* "Ecotoxicological effect of polycyclic musks on Caenorhabditis elegans." *Journal of Health Science* **2006**, *52*(3):276-282; doi:10.1248/jhs.52.276.

Moriñigo MA, Cornax R, Castro D, Jimenez-notaro M, Romero P, and Borrego JJ. "Antibiotic resistance of Salmonella strains isolated from natural polluted waters." *Journal of Applied Microbiology* **1990**, *68*(3):297-302; doi:10.1111/j.1365-2672.1990.tb02578.x.

Morissette H. "Is the current disposal process of unwanted drugs efficient? Perspectives and roles of Boots." Masters Dissertation, University of Nottingham, England, 2006. 82 pp; http://edissertations-dev.nottingham.ac.uk/551/1/dissertation.pdf.pdf.

Moriyama K, Matsufuji H, Chino M, and Takeda M. "Identification and behavior of reaction products formed by chlorination of ethynylestradiol." *Chemosphere* **2004**, *55*(6):839-847; doi:10.1016/j.chemosphere.2003.11.045.

Morley MC, Snow DD, Fox A, Shamayleh R, and Young TSM. "Emerging chemicals and analytical methods." *Water Environment Research* **2003**, *Literature Review*:1-50; doi:10.2175/106143003X141358.

Morley NJ. "Environmental risk and toxicology of human and veterinary waste pharmaceutical exposure to wild aquatic host-parasite relationships." *Environmental Toxicology and Pharmacology* **2009**, *27*(2):161-175; doi:10.1016/j.etap.2008.11.004.

Morohoshi K, Yamamoto H, Kamata R, Shiraishi F, Koda T, and Morita M. "Estrogenic activity of 37 components of commercial sunscreen lotions evaluated by in vitro assays." *Toxicology In Vitro* **2005**, *19*(4):457-469; doi:10.1016/j.tiv.2005.01.004.

Morrall D, McAvoy D, Schatowitz B, Inauen J, Jacob M, Hauk A*, et al.* "A field study of triclosan loss rates in river water (Cibolo Creek, TX)." *Chemosphere* **2004**, *54*(5):653-660; doi:10.1016/j.chemosphere.2003.08.002.

Morré J. "Chemical hormesis in cell growth: a molecular target at the cell surface." *Journal of Applied Toxicology* **2000**, *20*(2):157-163.

Morrell, Campbell, Priest, Dickerson, Hudgins, Rodne*, et al.* 2009, "Secure Medicine Return Bill: Providing for the safe collection and disposal of unwanted drugs from residential sources through a producer provided and funded product stewardship program." 13 pp; http://apps.leg.wa.gov/billinfo/summary.aspx?bill=1165&year=2009.

Morris CE, Kinkel LL, Xiao K, Prior P, and Sands DC. "Surprising niche for the plant pathogen Pseudomonas syringae." *Infection, Genetics and Evolution* **2007**, *7*(1):84-92; doi:10.1016/j.meegid.2006.05.002.

Morris JM, Jin S, and Cui K. "Removal of endocrine active compounds using layered double hydroxide material." *Chemical Engineering Journal* **2008**, *145*(1):160-163; doi:10.1016/j.cej.2008.05.031.

Morris-Kukoski CL and Egland AG. "Toxicity, Deadly in a Single Dose." emedicine, WebMD, Medscape, 2006, http://emedicine.medscape.com/article/1011108-overview.

Morris-Kukoski CL and Egland AG. 2006, "Toxicity, deadly in a single dose." WebMD, http://emedicine.medscape.com/article/1011108-overview.

Morrison H, Olack G, and Xiao C. "Organic photochemistry. 93. Photochemical and photophysical studies of tetracycline." *Journal of the American Chemical Society* **1991**, *113*(21):8110-8118.

Morse A and Jackson A. "Fate of amoxicillin in two water reclamation systems." *Water, Air, & Soil Pollution* **2004**, *157*(1-4):117-132; doi:10.1023/B:WATE.0000038878.22776.5b.

Mort M. "Multiple modes of drug delivery." *Modern Drug Discovery* **2000**, *3*(3):30-32, 34.

Morteani G, Moller P, Fuganti A, and Paces T. "Input and fate of anthropogenic estrogens and gadolinium in surface water and sewage plants in the hydrological basin of Prague (Czech Republic)." *Environmental Geochemistry and Health* **2006**, *28*(3):257-264.

Mortensen AS and Arukwe A. "Effects of 17α-ethynylestradiol on hormonal responses and xenobiotic biotransformation system of Atlantic salmon (Salmo salar)." *Aquatic Toxicology* **2007**, *85*(2):113-123; doi:10.1016/j.aquatox.2007.08.004.

Mosca F, Tritto E, Muzzi A, Monaci E, Bagnoli F, Iavarone C*, et al.* "Molecular and cellular signatures of human vaccine adjuvants." *Proceedings of the National Academy of Sciences of the United States of America* **2008**, *105*(30):10501-10506; doi:10.1073/pnas.0804699105.

Moss T, Howes D, and Williams FM. "Percutaneous penetration and dermal metabolism of triclosan (2,4,4'-trichloro-2'-hydroxydiphenyl ether)." *Food and Chemical Toxicology* **2000**, *38*(4):361-370; doi:10.1016/S0278-6915(99)00164-7.

Motheral BR, Cox ER, Mager D, Henderson RR, and Martiniez R. "Prescription Drug Atlas: A Study of Geographic Variation in the Use of Prescription Drugs." Express Scripts, Inc., Maryland Heights, MO, 2002, 50 pp; http://www.express-scripts.com/industryresearch/outcomes/onlinepublications/prescriptiondrugatlas/; http://www.express-scripts.com/industryresearch/outcomes/onlinepublications/prescriptiondrugatlas/entireStudy.pdf.

Mothersill C, Mosse I, and Seymour C. "Multiple Stressors: A Challenge for the Future Proceedings of the NATO Advanced Research Workshop on Multipollution Exposure and Risk Assessment - A Challenge for the Future." Minsk, Belarus, Springer Netherlands, 2007, 485 pp; doi:10.1007/978-1-4020-6335-0; http://www.springerlink.com/content/u24713284377/?p=417a3153b15c4ae19eed3587fd684c22&pi=0.

Mottaleb MA, Brumley WC, Curtis LR, and Sovocool GW. "Nitro musk adducts of rainbow trout hemoglobin: Dose-response and toxicokinetics determination by GC-NICI-MS for a sentinel species." *American Biotechnology Laboratory* **2005**, *23*(7):24, 26-29.

Mottaleb MA, Brumley WC, Pyle SM, and Sovocool GW. "Determination of a bound musk xylene metabolite in carp hemoglobin as a biomarker of exposure by gas chromatography-mass spectrometry using selected ion monitoring." *Journal of Analytical Toxicology* **2004**, *28*(7):581-586.

Mottaleb MA, Brumley WC, and Sovocool GW. "Nitro musk metabolites bound to carp hemoglobin: Determination by GC with two MS detection modes: EIMS versus electron capture negative ion MS." *International Journal of Environmental Analytical Chemistry* **2004**, *84*(14-15):1069-1078; doi:10.1080/03067310410001729033.

Mottaleb MA and Karim MR. "Determination of hemoglobin adduct of a musk xylene metabolite in trout as biomarker of exposure by gas chromatography mass spectrometry." *Journal of Environmental Sciences (China)* **2005**, *17*(6):989-992.

Mottaleb MA, Moyz TW, and Zimmerman JH. "Biotransformation of musk xylene in trout haemoglobin: dose-response and toxicokinetics of musk xylene metabolites haemoglobin adducts by gas chromatography-mass spectrometry." *International Journal of Environmental Analytical Chemistry* **2006**, *86*(10):743-756; doi:10.1080/03067310500489528.

Mottaleb MA, Usenko S, Brooks BW, and Chambliss CK. "Simultaneous analysis of different classes of personal care products in river water by a single gas chromatography-tandem mass spectrometry method." *Environmental Pollution* **2009**, *In Press*; doi:10.1016/j.envpol.2009.02.008.

Mottaleb MA, Usenko S, O'Donnell JG, Ramirez AJ, Brooks BW, and Chambliss CK. "Gas chromatography-mass spectrometry screening methods for select UV filters, synthetic musks, alkylphenols, an antimicrobial agent, and an insect repellent in fish." *Journal of Chromatography A* **2009**, *1216*(5):815-823; doi:10.1016/j.chroma.2008.11.072.

Mottaleb MA, Zhao X, Curtis LR, and Sovocool GW. "Formation of nitro musk adducts of rainbow trout hemoglobin for potential use as biomarkers of exposure." *Aquatic Toxicology* **2004**, *67*(4):315-324; doi:10.1016/j.aquatox.2004.01.004.

Mottaleb MA, Zimmerman JH, and Moy TW. "Biological transformation, kinetics and dose-response assessments of bound musk ketone hemoglobin adducts in rainbow trout as biomarkers of environmental exposure." *Journal of Environmental Sciences (China)* **2008**, *20*(7):878-884.

Mouatassim-Souali A, Tamisier-Karolak SL, Perdiz D, Cargouet M, and Levi Y. "Validation of a quantitative assay using using GC/MS for trace determination of free and conjugated estrogens in environmental water samples." *Journal of Separation Science* **2003**, *26*(1-2):105-111; doi:10.1002/jssc.200390000.

Mouatassim-Souali A, Tamisier-Karolak SL, Perdiz D, Cargouet M, and Levi Y. "Validation of a quantitative assay using GC/MS for trace determination of free and conjugated estrogens in environmental water samples." *Journal of Separation Science* **2003**, *26*(1-2):105-111; doi:10.1002/jssc.200390000.

Moy T and Brumley WC. "Multiresidue determination of acidic pesticides in water by hplc/dad with confirmation by gc/ms using conversion to the methyl ester with trimethylsilydiazomethane." *Journal of Chromatographic Science* **2003**, *41*(7):343-349.

Moynihan R. "Key opinion leaders: independent experts or drug representatives in disguise?" *British Medical Journal* **2008**, *336*(7658):1402-1403; doi:10.1136/bmj.39575.675787.651.

MPR "MPR (Monthly Prescribing Reference)." Haymarket Media, Inc 2008; http://formulary.prescribingreference.com/.

MTAP "Intern develops customized solution for addressing pharmaceutical sample waste at two clinics." Web Page maintained by Minnesota Technical Assistance Program, University of Minnesota 2008, http://www.mntap.umn.edu/health/CAHS.html.

Mu X and LeBlanc GA. "Developmental toxicity of testosterone in the crustacean Daphnia magna involves anti-ecdysteroidal activity." *General and Comparative Endocrinology* **2002**, *129*(2):127-133; doi:10.1016/S0016-6480(02)00518-X.

Mückter H. "Human and animal toxicology of some water-borne pharmaceuticalss." in *Human pharmaceuticals, hormones and fragrances: The challenge of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, UK, 2007, Chapter 5, pp 149-242; http://books.google.com/books?id=X9Sb4mVGF-oC&dq=Human+pharmaceuticals,+hormones+and+fragrances:++The+challenge+of+micropollutants+in+urban+water+management&printsec=frontcover&source=bn&hl=en&ei=DzGcSuP5NqWEmQeYscjABA&sa=X&oi=book_result&ct=result&resnum=4#v=onepage&q=&f=false.

Mudge SM. "Sediment and Soil Environmental Forensics: What Do We Know?" in *Criminal and Environmental Soil Forensics*, Springer; The Netherlands, 2009, Chapter 10, pp 151-162; doi:10.1007/978-1-4020-9204-6_10; http://dx.doi.org/10.1007/978-1-4020-9204-6_10.

Mudryk Z, Perlinski P, and Skórczewski P. "Detection of antibiotic resistant bacteria inhabiting the sand of non-recreational marine beach." *Marine Pollution Bulletin* **2009**, *In Press*; doi:10.1016/j.marpolbul.2009.09.025.

Mudryk ZJ. "Antibiotic resistance among bacteria inhabiting surface and subsurface water layers in estuarine lake Gardno." *Polish Journal of Environmental Studies* **2002**, *11*(4):401-406.

Mudryk ZJ. "Occurrence and distribution antibiotic resistance of heterotrophic bacteria isolated from a marine beach." *Marine Pollution Bulletin* **2005**, *50*(1):80-86; doi:10.1016/j.marpolbul.2004.10.001.

Muir DCG and Howard PH. "Are There Other Persistent Organic Pollutants? A Challenge for Environmental Chemists." *Environmental Science & Technology* **2006**, *40*(23):7157-7166.

Mulisch H-M, Winter W, and Dieter HH. "Assessment of the Effect Potential of Environmental Chemicals." in *Exposure and Risk Assessment of Chemical Pollution — Contemporary Methodology*, Springer Netherlands; 2009, pp 147-153; doi:10.1007/978-90-481-2335-3_9; http://dx.doi.org/10.1007/978-90-481-2335-3_9.

Müller C, Ruby S, Brousseau P, Cyr D, Fournier M, and Gagné F. "Immunotoxicological effects of an activated-sludge-treated effluent on rainbow trout (Oncorhynchus mykiss)." *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* **2009**, *150*(3):390-394; doi:10.1016/j.cbpc.2009.06.004.

Muller HG. "Sensitivity of Daphnia magna Straus Against Eight Chemotherapeutic Agents and Two Dyes." *Bulletin of Environmental Contamination and Toxicology* **1982**, *28*(1):1-2; doi:10.1007/BF01608403.

Müller J, Böhmer W, and Litz NT. "Occurrence of polycyclic musks in sewage sludge and their behaviour in soils and plants. Part 1: Behaviour of Polycyclic Musks in Sewage Sludge of Different Treatment Plants in Summer and Winter." *Journal of Soils and Sediments* **2006**, *6*(4):231-235; doi:10.1065/jss2006.10.187.1.

Muller L, Mauthe RJ, Riley CM, Andino MM, Antonis DD, Beels C*, et al.* "A rationale for determining, testing, and controlling specific impurities in pharmaceuticals that possess potential for genotoxicity." *Regulatory Toxicology and Pharmacology* **2006**, *44*(3):198-211; doi:10.1016/j.yrtph.2005.12.001.

Muller M, Rabenoelina F, Balaguer P, Patureau D, Lemenach K, Budzinski H*, et al.* "Chemical and biological analysis of endocrine disrupting hormones and estrogenic activity in an advanced sewage treatment plant." *Environmental Toxicology and Chemistry* **2008**, *27*(8):1649-1658; doi:10.1897/07-519.1.

Müller R, Tang JYM, Thierb R, and Mueller JF. "Combining passive sampling and toxicity testing for evaluation of mixtures of polar organic chemicals in sewage treatment plant effluent." *Journal of Environmental Monitoring* **2007**, *9*(1):104-109; doi:10.1039/b612430e.

Müller RK. "Murders by drugs - past and present." *Drug Testing and Analysis* **2009**, *1*(4):150-152; doi:10.1002/dta.39.

Muller S, Moder M, Schrader S, and Popp P. "Semi-automated hollow-fibre membrane extraction, a novel enrichment technique for the determination of biologically active compounds in water samples." *Journal of Chromatography A* **2003**, *985*(1-2):99-106; doi:10.1016/S0021-9673(02)01803-4.

Muller S, Schmid P, and Schlatter C. "Occurrence of nitro and non-nitro benzenoid musk compounds in human adipose tissue." *Chemosphere* **1996**, *33*(1):17-28; doi:10.1016/0045-6535(96)00160-9.

Mullot J-U, Karolak S, Fontova A, Huart B, and Levi Y. "Development and validation of a sensitive and selective method using GC/MS-MS for quantification of 5-fluorouracil in hospital wastewater." *Analytical and Bioanalytical Chemistry* **2009**, *394*(8):2203-2212; doi:10.1007/s00216-009-2902-x.

"Environmental Guidelines for Pharmaceutical Manufacturing (NOTE: no longer in use by the World Bank)." 1996; http://www.miga.org/documents/PharmaceuticalManufacturing.pdf, http://www.ifc.org/ifcext/sustainability.nsf/AttachmentsByTitle/gui_pharmmfg_WB/$FILE/pharma_PPAH.pdf.

Muncke J and Eggen RIL. "Vitellogenin 1mRNA as an early molecular biomarker for endocrine disruption in developing zebrafish (Danio rerio)." *Environmental Toxicology and Chemistry* **2006**, *25*(10):2734-2741; doi:10.1897/05-683R.1.

Muncke J, Junghans M, and Eggen RIL. "Testing estrogenicity of known and novel (xeno-) estrogens in the MolDarT using developing zebrafish (Danio rerio)." *Environmental Toxicology* **2007**, *22*(2):185-193; doi:10.1002/tox.20255.

Mundy A and Favole J. "FDA Calls Off Ban on Animal Antibiotics." The Wall Street Journal, 2008, 9 December.

Mundy G, Garrett R, Harris S, Chan J, Chen D, Rossini G*, et al.* "Stimulation of Bone Formation in Vitro and in Rodents by Statins." *Science* **1999**, *286*(5446):1946-1949; doi:10.1126/science.286.5446.1946.

Munns WR. "Axes of Extrapolation in Risk Assessment." *Human and Ecological Risk Assessment* **2002**, *8*(1):19-29.

Munns WR and MacPhail R. "Extrapolation in Human Health and Ecological Risk Assessments: Proceedings of a Symposium." in Human and Ecological Risk Assessment, 1 January, 2004, 8(1) 1-5 pp; http://www.sciencedirect.com/science/article/B6WRP-451W119-2/2/a1689221250667ceeba87063cf21419d.

Muñoz I, Gómez-Ramos MJ, Agüera A, Fernández-Alba AR, García-Reyes JF, and Molina-Díaz A. "Chemical evaluation of contaminants in wastewater effluents and the environmental risk of reusing effluents in agriculture." *TRAC Trends in Analytical Chemistry* **2009**, *28*(6):676-694; doi:10.1016/j.trac.2009.03.007.

Muñoz I, José Gómez M, Molina-Díaz A, Huijbregts MAJ, Fernández-Alba AR, and García-Calvo E. "Ranking potential impacts of priority and emerging pollutants in urban wastewater through life cycle impact assessment." *Chemosphere* **2008**, *74*(2):37-44; doi:10.1016/j.chemosphere.2008.09.029.

Muñoz I, López-Doval JC, Ricart M, Villagrasa M, Brix R, Geiszinger A*, et al.* "Bridging Levels of Pharmaceuticals in River Water with Biological Community Structure in the Llobregat River Basin (NE Spain)." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2706-2714; doi:10.1897/08-486.1.

Muñoz I, Martínez Bueno MJ, Agüera A, and Fernández-Alba AR. "Environmental and human health risk assessment of organic micro-pollutants occurring in a Spanish marine fish farm." *Environmental Pollution* **2009**, *In Press*; doi:10.1016/j.envpol.2009.11.006.

Muñoz I, Rodríguez A, Rosal R, and Fernández-Alba AR. "Life Cycle Assessment of urban wastewater reuse with ozonation as tertiary treatment: A focus on toxicity-related impacts." *Science of the Total Environment* **2009**, *407*(4):1245-1256; doi:10.1016/j.scitotenv.2008.09.029.

Munoz-Aguayo J, Lang KS, LaPara TM, Gonzalez G, and Singer RS. "Evaluating the Effects of Chlortetracycline on the Proliferation of Antibiotic-Resistant Bacteria in a Simulated River Water Ecosystem." *Applied and Environmental Microbiology* **2007**, *73*(17):5421-5425; doi:10.1128/aem.00708-07.

Munoz-Bellido JL, Munoz-Criado S, and Garcìa-Rodrìguez JA. "Antimicrobial activity of psychotropic drugs: Selective serotonin reuptake inhibitors." *International Journal of Antimicrobial Agents* **2000**, *14*(3):177-180; doi:10.1016/S0924-8579(99)00154-5.

Munro AD. "Effects of Melatonin, Serotonin, and Naloxone on Aggression in Isolated Cichlid Fish (Aequidens pulcher)." *Journal of Pineal Research* **1986**, *3*(3):257-262; doi:10.1111/j.1600-079X.1986.tb00748.x.

Munro I. "Safety assessment procedures for indirect food additives: an overview. Report of a workshop." *Regulatory Toxicology and Pharmacology* **1990**, *12*(1):2-12.

Murakami M, Imamura E, Shinohara H, Kiri K, Muramatsu Y, Harada A*, et al.* "Occurrence and Sources of Perfluorinated Surfactants in Rivers in Japan." *Environmental Science & Technology* **2008**, *42*(17):6566-6572; doi:10.1021/es800353f.

Murdoch RW and Hay AG. "Formation of catechols via removal of acid side chains from ibuprofen and related aromatic acids."

Applied and Environmental Microbiology **2005**, *71*(10):6121-6125; doi:10.1128/AEM.71.10.6121-6125.2005.

Murillo J, Alañón Molina A, Muñoz de la Peña A, Durán Merás I, and Jiménez Girón A. "Resolution of Ofloxacin–Ciprofloxacin and Ofloxacin–Norfloxacin Binary Mixtures by Flow-Injection Chemiluminescence in Combination with Partial Least Squares Multivariate Calibration." *Journal of Fluorescence* **2007**, *17*(5):481-491; doi:10.1007/s10895-007-0198-9.

Murillo L. 2009, "Smugglers use sewers to deliver drugs." WPAO.com, 1 pp; http://www.woai.com/news/local/story/Smugglers-use-sewers-to-deliver-drugs/QJ6jyotL_0q6oLL9kZkyfw.cspx.

Murillo Pulgarín JA, Alañón Molina A, and Muñoz Fernández L. "Determination of Ciprofloxacin, the Major Metabolite of Enrofloxacin, in Milk by Isopotential Fluorimetry." *Journal of Agricultural and Food Chemistry* **2008**, *56*(19):8838-8843; doi:10.1021/jf801094g.

Murk AJ, Legler J, van Lipzig MMH, Meerman JHN, Belfroid AC, Spenkelink A*, et al.* "Detection of estrogenic potency in wastewater and surface water with three in vitro bioassays." *Environmental Toxicology and Chemistry* **2002**, *21*(1):16-23; doi:10.1897/1551-5028.

Murray BE. "Drug therapy: Vancomycin-resistant enterococcal infections." *New England Journal of Medicine* **2000**, *342*(10):710-721.

Murray M and Murray K. "Mechanism-based inhibition of CYP activities in rat liver by fluoxetine and structurally similar alkylamines." *Xenobiotica* **2003**, *33*(10):973-987; doi:10.1080/00498250310001602748.

Murray-Smith RJ and Ramil M. "Workshop on the use and modeling and monitoring in the environmental risk assessment of human medicines." in *Drug Information Journal*, Association DI, Ed., Wiley-Blackwell; 2007, pp 2-195; http://www.brixham-lab.com/504390/?itemId=786599.

Muruganandam B, Saravanane R, Lavanya M, and Sivacoumar R. "Effect of inoculum-substrate ratio on acclimatization of pharmaceutical effluent in an anaerobic batch reactor." *Journal of Environmental Science & Engineering* **2008**, *50*(3):191-196.

Murugesan K, Chang Y-Y, Kim Y-M, Jeon J-R, Kim E-J, and Chang Y-S. "Enhanced transformation of triclosan by laccase in the presence of redox mediators." *Water Research* **20`0**, *44*(1):298-308; doi:10.1016/j.watres.2009.09.058.

Musa KAK and Eriksson LA. "Theoretical Study of Ibuprofen Phototoxicity." *Journal of Physical Chemistry B* **2007**, *111*(46):13345-13352; doi:10.1021/jp076553e.

Musa KAK and Eriksson LA. "Photodegradation mechanism of the common non-steroid anti-inflammatory drug diclofenac and its carbazole photoproduct." *Physical Chemistry Chemical Physics* **2009**, *11*:4601-4610.

Muschamp JW and Fong PP. "Effects of the serotonin receptor ligand methiothepin on reproductive behavior of the freshwater snail Biomphalaria glabrata: Reduction of egg laying and induction of penile erection." *Journal of Experimental Zoology Part A: Comparative Experimental Biology* **2001**, *289*(3):202-207; doi:10.1002/1097-010X(20010215)289:3<202::AID-JEZ7>3.0.CO;2-B.

Mushak P. "Ad hoc and Fast Forward: The Science of Hormesis Growth and Development." *Environmental Health Perspectives* **2009**, *117*(9):1333-1338; doi:10.1289/ehp.0900761.

Musolff A. "Micropollutants: challenges in hydrogeology." *Hydrogeology Journal* **2009**, *17*(4):763-766; doi:10.1007/s10040-009-0438-y.

Musolff A, Leschik S, Möder M, Strauch G, Reinstorf F, and Schirmer M. "Temporal and spatial patterns of micropollutants in urban receiving waters." *Environmental Pollution* **2009**, *157*(11):3069-3077; doi:10.1016/j.envpol.2009.05.037.

Musolff A, Leschik S, Reinstorf F, Strauch G, and Schirmer M. "Assessing emerging contaminants – case study of the city of Leipzig, Germany." in International Conference on Groundwater Quality: Securing Groundwater Quality in Urban and Industrial Environments (selected and reviewed papers from Groundwater quality 2007 conference, held in Fremantle, Australia, 2-7 December 2007), IAHS-AISH Publ., 2008, 324 178-185 pp; http://cat.inist.fr/?aModele=afficheN&cpsidt=21241995.

Musolff A, Leschik S, Reinstorf F, Strauch G, Schirmer M, and Möder M. "Xenobiotics in groundwater and surface water of the city of Leipzig [Xenobiotika im Grundwasser und Oberflächenwasser der Stadt Leipzig]." *Grundwasser* **2007**, *12*(3):217-231; doi:10.1007/s00767-007-0033-x.

Musshoff F, Padosch S, Steinborn S, and Madea B. "Fatal blood and tissue concentrations of more than 200 drugs." *Forensic Science International* **2004**, *142*(2-3):161-210; doi:10.1016/j.forsciint.2004.02.017.

Musson S and Townsend T. "Management of discarded pharmaceuticals." *Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management* **1998**, *2*(3):89-93; doi:10.1061/(ASCE)1090-025X(1998)2:3(89).

Musson SE. "Detection of Selected Pharmaceutical Compounds and Determination of their Fate in Modern Lined Landfills." Doctoral Dissertation, University of Florida, Department of Environment Engineering Sciences, Gainesville, FL, 2006. 101 pp.

Musson SE, Townsend T, Seaburg K, and Mousa J. "A continuous collection system for household pharmaceutical wastes: A pilot for household project." *Jounal of the Air & Waste Mangement Association* **2007**, *57*(7):828-835.

Musson SE and Townsend TG. "Pharmaceutical compound content of municipal solid waste." *Journal of Hazardous Materials* **2009**, *162*(2-3):730-735; doi:10.1016/j.jhazmat.2008.05.089.

Mutavdzic D, Babic S, Asperger D, Horvat AJM, and Kastelan-Macan M. "Comparison of different solid-phase extraction materials for sample preparation in the analysis of veterinary drugs in water samples." *Journal of Planar Chromatography - Modern TLC* **2006**, *19*(112):454-462; doi:10.1556/JPC.19.2006.6.9.

MWRA. "Pharmaceuticals and Drinking Water." Massachusetts Water Resources Authority, 14 April, 2009, 4 pp; http://www.mwra.com/04water/html/pharmaceuticals.htm.

Myers R. "Modeling the fate of emerging contaminants and investigating the importance of their physical, chemical, and biological properties in water and wastewater treatment." Masters Dissertation, Southern Methodist University, Dallas, Texas, 2009. 173 pp.

Mylonas AD, Brown AM, Carthew TL, McGrath B, Purdie DM, Pandeya N*, et al.* "Natural history of Ross River virus-induced epidemic polyarthritis." *Medical Journal of Australia* **2002**, *177*(7):356-360.

Nachatelo M, "How drugs are polluting our water." *Natural Health Magazine*, September, 2001, 51-53 pp.

Nachman KE, Mihalic JN, Burke TA, and Geyh AS. "Comparison of arsenic content in pelletized poultry house waste and biosolids fertilizer." *Chemosphere* **2008**, *71*(3):500-506; doi:10.1016/j.chemosphere.2007.10.009.

Naciff JM, Overmann GJ, Torontali SM, Carr GJ, Khambatta ZS, Tiesman JP*, et al.* "Uterine temporal response to acute exposure to 17α-ethinyl estradiol in the immature rat." *Toxicological Sciences* **2007**, *97*(2):467-490; doi:10.1093/toxsci/kfm046.

NACo. 2009, "NACo Adopts Pharmaceutical Take-Back Resolution - National Association of Counties Adopts Resolution on Producer Responsibility for Unwanted Medicines." The National Association of Counties, http://www.productpolicy.org/ppi-update/naco-adopts-pharmaceutical-take-back-resolution.

NACo. 2009, "NATIONAL ASSOCIATION OF COUNTIES: Resolution Adopted July 28, 2009 - Resolution in Support of a Safe, Convenient Medicine Return Program." The National Association of Counties, 2 pp; http://www.productpolicy.org/ppi/attachments/NACo-2009-Pharmaceuticals-resolution.pdf.

NACWA. "Pharmaceuticals and Personal Care Products In the Environment: A White Paper on Options For the Wastewater Treatment Community." The National Association of Clean Water Agencies, Washington, DC, November, 2008, 14 pp; http://www.dep.state.fl.us/waste/quick_topics/publications/shw/meds/NACWA-PPCPWhitePaper1105.pdf.

NACWA. "Comment to EPA regarding proposed addition of hazardous pharmaceutical wastes to the Universal Waste Rule." The National Association of Clean Water Agencies, EPA-HQ-RCRA-2007-0932, Washington, DC, 4 March, 2009, 3 pp; http://www.google.com/search?sourceid=navclient&ie=UTF-8&rlz=1T4GGLL_enUS338US338&q=nacwa+ondcp+2007.

NACWA. "Comment to DEA regarding Drug Enforcement Agency's Advance Notice of Proposed Rulemaking (ANPRM) seeking information on the disposal of controlled substances." The National Association of Clean Water Agencies, DEA-316, Washington, DC, 23 March, 2009, 3 pp; http://www.google.com/search?sourceid=navclient&ie=UTF-8&rlz=1T4GGLL_enUS338US338&q=nacwa+ondcp+2007.

Naddeo V, Belgiorno V, Kassinos D, Mantzavinos D, and Meric S. "Ultrasonic degradation, mineralization and detoxification of diclofenac in water: optimization of operating parameters." *Ultrasonics Sonochemistry* **2010**, *17*(1):179-185; doi:10.1016/j.ultsonch.2009.04.003.

Naddeo V, Belgiorno V, Ricco D, and Kassinos D. "Degradation of diclofenac during sonolysis, ozonation and their simultaneous application." *Ultrasonics Sonochemistry* **2009**, *16*(6):790-794; doi:10.1016/j.ultsonch.2009.03.003.

Naddeo V, Meriç S, Kassinos D, Belgiorno V, and Guida M. "Fate of pharmaceuticals in contaminated urban wastewater effluent under ultrasonic irradiation." *Water Research* **2009**, *43*(16):4019-4027; doi:10.1016/j.watres.2009.05.027.

Nadzialek S, Vanparys C, Van der Heiden E, Michaux C, Brose F, Scippo M-L*, et al.* "Understanding the gap between the estrogenicity of an effluent and its real impact into the wild." *Science of the Total Environment* **2009**, *In Press*; doi:10.1016/j.scitotenv.2009.09.002.

Nageswara Rao R, Venkateswarlu N, and Narsimha R. "Determination of antibiotics in aquatic environment by solid-phase extraction followed by liquid chromatography-electrospray ionization mass spectrometry." *Journal of Chromatography A* **2008**, *1187*(1-2):151-164; doi:10.1016/j.chroma.2008.02.021.

Nagtegaal M, Ternes TA, Baumann W, and Nagel R. "UV-Filtersubstanzen in Wasser und Fischen- Detection of UV-sunscreen agents in water and fish of the Meerfelder Maar, the Eifel, Germany." *Unweltwissenschaften und Schadstoff-Forschung* **1997**, *9*(2):79-86; doi:10.1007/BF02937843.

Nagulapally SR. "Antibiotic resistance patterns in municipal wastewater bacteria." Masters Dissertation, Kansas State University, Manhattan, Kansas, 2007. 89 pp; http://krex.k-state.edu/dspace/handle/2097/331.

Nahon J-L. "The Melanin-Concentrating Hormone." in *Handbook of Biologically Active Peptides*, 1st ed.; Kastin AJ, Ed., Academic Press; 2006, Chapter 98, pp 705.

Naidenko O, Leiba N, Sharp R, and Houlihan J. "EWG Research: Bottled Water Quality Investigation: 10 Major Brands, 38 Pollutants. Bottled water contains disinfection byproducts, fertilizer residue, and pain medication." 2009, 33 pp; http://www.ewg.org/reports/bottledwater, http://www.ewg.org/node/27011.

Naidenko OV. "Testing for pharmaceuticals and personal care products in the New York City drinking water supply." Environmental Working Group, 27 October, 2009, 8 pp; http://www.ewg.org/testimony/pharmaceuticals-personal-care-products-in-NYC-drinking-water.

Naidoo V and Swan GE. "Diclofenac toxicity in Gyps vulture is associated with decreased uric acid excretion and not renal portal vasoconstriction." *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* **2009**, *149*(3):269-274; doi:10.1016/j.cbpc.2008.07.014.

Naidoo V, Wolter K, Chromarty AD, Bartels P, Bekker L, McGaw L*, et al.* "The pharmacokinetics of meloxicam in vultures." *Journal of Veterinary Pharmacology and Therapeutics* **2008**, *31*(2):128-134; doi:10.1111/j.1365-2885.2007.00923.x.

Naidoo V, Wolter K, Cuthbert R, and Duncan N. "Veterinary diclofenac threatens Africa's endangered vulture species." *Regulatory Toxicology and Pharmacology* **2009**, *53*(3):205-208; doi:10.1016/j.yrtph.2009.01.010.

Nakada N, Kiri K, Shinohara H, Harada A, Kuroda K, Takizawa S*, et al.* "Evaluation of Pharmaceuticals and Personal Care Products as Water-soluble Molecular Markers of Sewage." *Environmental Science & Technology* **2008**, *42*(17):6347-6353; doi:10.1021/es7030856.

Nakada N, Komori K, Suzuki Y, Konishi C, Houwa I, and Tanaka H. "Occurrence of 70 pharmaceutical and personal care products in Tone River basin in Japan." *Water Science and Technology* **2007**, *56*(12):133-140; doi:10.2166/wst.2007.801.

Nakada N, Nyunoya H, Nakamura M, Hara A, Iguchi T, and Takada H. "Identification of estrogenic compounds in wastewater effluent." *Environmental Toxicology and Chemistry* **2004**, *23*(12):2807-2815; doi:10.1897/03-699.1.

Nakada N, Shinohara H, Murata A, Kiri K, Managaki S, Sato N*, et al.* "Removal of selected pharmaceuticals and personal care products (PPCPs) and endocrine-disrupting chemicals (EDCs) during sand filtration and ozonation at a municipal sewage treatment plant." *Water Research* **2007**, *41*(19):4373-4382; doi:10.1016/j.watres.2007.06.038.

Nakada N, Tanishima T, Shinohara H, Kiri K, and Takada H. "Pharmaceutical chemicals and endocrine disrupters in municipal wastewater in Tokyo and their removal during activated sludge treatment." *Water Research* **2006**, *40*(17):3297-3303; doi:10.1016/j.watres.2006.06.039.

Nakama A, Funasaka K, and Shimizu M. "Evaluation of estrogenic activity of organic biocides using ER-binding and YES assay." *Food and Chemical Toxicology* **2007**, *45*(9):1558-1564; doi:10.1016/j.fct.2007.02.014.

Nakamura H, Kawakami T, Niino T, Takahashi Y, and Onodera S. "Chemical fate and changes in mutagenic activity of antibiotics nitrofurazone and furazolidone during aqueous chlorination." *Journal of Toxicological Sciences* **2008**, *33*(5):621-629;

doi:10.2131/jts.33.621.

Nakamura H, Kuruto-Niwa R, Uchida M, and Terao Y. "Formation of chlorinated estrones via hypochlorous disinfection of wastewater effluent containing estrone." *Chemosphere* **2007**, *66*(8):1441-1448; doi:10.1016/j.chemosphere.2006.09.011.

Nakamura K. "Calculation and problems of predicted environmental concentration (Pec) for aquatic ecological risk assessment." *Journal of Pesticide Science* **2006**, *31*(1):70-72.

Nakamura S, Sian TH, and Daishima S. "Determination of estrogens in river water by gas chromatography-negative-ion chemical-ionization mass spectrometry." *Journal of Chromatography A* **2001**, *919*(2):275-282; doi:10.1016/S0021-9673(01)00851-2.

Nakamura Y. "Pharmacogenomics and Drug Toxicity." *New England Journal of Medicine* **2008**, *359*(8):856-858; doi:10.1056/NEJMe0805136.

Nakamura Y, Onda K, Takatoh C, and Miya A. "Development of a method for the quantitative analysis of estrogens in sewage water by LC/MS/MS." *Bunseki Kagaku* **2003**, (52):2.

Nakamura Y, Yamamoto H, Sekizawa J, Kondo T, Hirai N, and Tatarazako N. "The effects of pH on fluoxetine in Japanese medaka (Oryzias latipes): Acute toxicity in fish larvae and bioaccumulation in juvenile fish." *Chemosphere* **2008**, *70*(5):865-873; doi:10.1016/j.chemosphere.2007.06.089.

Nakari T. "Estrogenicity of municipal effluents assessed in vivo and in vitro." *Environmental Toxicology* **2004**, *19*(3):207-215; doi:10.1002/tox.20013.

Nakata H. "Occurrence of synthetic musk fragrances in marine mammals and sharks from Japanese coastal waters." *Environmental Science & Technology* **2005**, *39*(10):3430-3434; doi:10.1021/es050199l.

Nakata H, Kannan K, Jones PD, and Giesy JP. "Determination of fluoroquinolone antibiotics in wastewater effluents by liquid chromatography-mass spectrometry and fluorescence detection." *Chemosphere* **2005**, *58*(6):759-766; doi:10.1016/j.chemosphere.2004.08.097.

Nakata H, Kannan K, Nasu T, Cho HS, Sinclair E, and Takemura A. "Perfluorinated contaminants in sediments and aquatic organisms collected from shallow water and tidal flat areas of the Ariake Sea, Japan: Environmental fate of perfluorooctane sulfonate in aquatic ecosystems." *Environmental Science & Technology* **2006**, *40*(16):4916-4921; doi:10.1021/es0603195.

Nakata H, Murata S, and Filatreau J. "Occurrence and Concentrations of Benzotriazole UV Stabilizers in Marine Organisms and Sediments from the Ariake Sea, Japan." *Environmental Science & Technology* **2009**, *43*(18):6920-6926; doi:10.1021/es900939j.

Nakata H, Murata S, and Filatreau J. "Response to Comment on "Occurrence and Concentrations of Benzotriazole UV Stabilizers in Marine Organisms and Sediments from the Ariake Sea, Japan"." *Environmental Science & Technology* **2009**, *43*(20):7999-7999; doi:10.1021/es902653t.

Nakata H, Sasaki H, Takemura A, Yoshioka M, Tanabe S, and Kannan K. "Bioaccumulation, temporal trend, and geographical distribution of synthetic musks in the marine environment." *Environmental Science & Technology* **2007**, *41*(7):2216-2222.

Nalda MJN, Yague JLB, Gomez MTM, Sevilla JJJ, del Nozal JB, and Pascual MH. "Trace analysis of antibacterial tylosin A, B, C and D in honey by liquid chromatography-electrospray ionization-mass spectrometry." *Journal of Separation Science* **2006**, *29*(3):405-413; doi:10.1002/jssc.200500423.

Nalecz-Jawecki G. "Evaluation of the in vitro biotransformation of fluoxetine with HPLC, mass spectrometry and ecotoxicological tests." *Chemosphere* **2007**, *70*(1):29-35; doi:10.1016/j.chemosphere.2007.07.035.

Nałęcz-Jawecki G. "In Vitro Biotransformation of Amitriptyline and Imipramine with Rat Hepatic S9 Fraction: Evaluation of the Toxicity with Spirotox and Thamnotoxkit F™ Tests." *Archives of Environmental Contamination and Toxicology* **2008**, *54*(2):266-273; doi:10.1007/s00244-007-9052-y.

Nałęcz-Jawecki G, Hajnas A, and Sawicki J. "Photodegradation and phototoxicity of thioridazine and chlorpromazine evaluated with chemical analysis and aquatic organisms." *Ecotoxicology* **2008**, *17*(1):13-20; doi:10.1007/s10646-007-0171-z.

Nalecz-Jawecki G and Persoone G. "Toxicity of selected pharmaceuticals to the anostracan crustacean Thamnocephalus platyurus - Comparison of sublethal and lethal effect levels with the 1h Rapidtoxkit and the 24h Thamnotoxkit microbiotests." *Environmental Science and Pollution Research* **2006**, *13*(1):22-27; doi:10.1065/espr2006.01.005.

Nalecz-Jawecki G and Sawicki J. "The toxicity of selected pharmaceuticals to the protozoa Spirostomum ambiguum and Tetrahymena termophila." *Fresenius Environmental Bulletin* **2003**, *12*(8,S1):840-843.

Nalecz-Jawecki G and Sawicki J. "Influence of water hardness on the toxicity of selected pharmaceuticals and metals to the protozoa Spirostomum ambiguum and Tetrahymena termophila." *Fresenius Environmental Bulletin* **2005**, *14*(10):873-877.

Nam OC, Rose J, Lauer W, Jem NW, Kai CS, Tam JP*, et al.* "Singapore water reclamation study: expert panel review and findings." June, 2002, 25 pp; http://www.pub.gov.sg/newater/AboutNEWater/Documents/review.pdf.

NAPRA "Recycling and disposal of dispensed drugs." Web Page maintained by National Association of Pharmacy Regulatory Authorities 2002, http://www.napra.org/docs/0/97/194/184.asp.

Narita S, Goldblum RM, Brooks EG, Watson CS, Estes MD, Curran EM*, et al.* "Environmental Estrogens Induce Mast Cell Degranulation and Enhance IgE-mediated Release of Allergic Mediators." *Journal of Allergy and Clinical Immunology* **2007**, *119*(1, Supplement 1):S49; doi:10.1016/j.jaci.2006.11.214.

Narotsky MG, Best DS, Rogers EH, McDonald A, Sey YM, and Simmons JE. "Integrated Disinfection By-Products Mixtures Research: Assessment of Developmental Toxicity in Sprague-Dawley Rats Exposed to Concentrates of Water Disinfected by Chlorination and Ozonation/Postchlorination." *Journal of Toxicology and Environmental Health, Part A: Current Issues* **2008**, *71*(17):1216 - 1221; doi:10.1080/15287390802182623.

NAS. "Characterizing the Potential Human Toxicity from Low Doses of Pharmaceuticals in Drinking Water: Are New Risk Assessment Methods or Approaches Require?" in National Research Council Sixth Workshop on the Standing Committee on Risk Analysis Issues and Reviews, Washington, DC, National Academy of Sciences, 11-12 December, 2008.

NAS. "Characterizing the Potential Human Toxicity from Low Doses of Pharmaceuticals in Drinking Water: Are New Risk Assessment Methods or Approaches Require?" *Risk Analysis Issues & Reviews: The Newsletter of the Standing Committee on Risk Analysis Issues and Reviews* **2009**, *August*(3):1-12.

Nash JP, Kime DE, Van der Ven LTM, Wester PW, Brion F, Maack G*, et al.* "Long-term exposure to environmental concentrations of the pharmaceutical ethynylestradiol causes reproductive failure in fish." *Environmental Health Perspectives* **2004**, *112*(17):1725-1733; doi:10.1289/ehp.7209.

Näslund J, Hedman JE, and Agestrand C. "Effects of the antibiotic ciprofloxacin on the bacterial community structure, degradation of pyrene in marine sediment." *Aquatic Toxicology* **2008**, *90*(3):223-227; doi:10.1016/j.aquatox.2008.09.002.

Näslund J, Hedman JE, and Agestrand C. "Corrigendum to "Effects of the antibiotic ciprofloxacin on the bacterial community structure and degradation of pyrene in marine sediment"." *Aquatic Toxicology* **2009**, *91*(1):100-100; doi:10.1016/j.aquatox.2008.11.010.

National Environmental Trust. "Cabinet Confidential: Toxic Products in the Home." Washington, DC, October, 2004, 44 pp; http://www.dphhs.mt.gov/epht/cabinet052004.pdf.

National Institute of Environmental Health Sciences. "Thinking Outside the Box to Estimate Community Drug Use." EHP Science Education Program, November, 2008, 10 pp; http://www.ehponline.org/science-ed/2008/Drugs%20and%20Wastewater.pdf.

National Library of Medicine "DailyMed: Current Medication Information." U.S. National Library of Medicine and National Institutes of Health 2008; http://dailymed.nlm.nih.gov/dailymed/about.cfm.

National Water Quality Management Strategy, Natural Resource Management Ministerial Council, Environment Protection and Heritage Council, and National Health and Medical Research Council. "Australian guidelines for water recycling: Managing health and environmental risks." November, 2006, 174 pp; http://www.ephc.gov.au/pdf/water/WaterRecyclingGuidelines-02_Nov06_.pdf.

National Water Quality Management Strategy, Natural Resource Management Ministerial Council, Environment Protection and Heritage Council, and National Health and Medical Research Council. "Australian guidelines for water recycling: Augmentation of drinking water supplies." May, 2008, 174 pp; http://www.ephc.gov.au/pdf/water/200805_WQ_GL_Final_AGWR_ADWS.pdf.

NATURVÅRDSVERKET. "Vilka halter av miljöfarliga ämnen hittar vi i miljön? Miljöövervakningens Screeningprogram 2005–2007 [What concentrations of hazardous substances do we find in the environment? Results from the Swedish Screening Programme 2005–2007]." Naturvårdsverket, Beställningar, 5744, September, 2007, 102 pp; http://www.naturvardsverket.se/Documents/publikationer/620-5744-8.pdf.

Naula C and Seebeck T. "Cyclic AMP signaling in trypanosomatids." *Parasitology Today* **2000**, *16*(1):35-38; doi:10.1016/S0169-4758(99)01582-3.

Naumann K. "Influence of chlorine substituents on biological activity of chemicals: a review (Reprinted from J Prakt Chem, vol 341, pg 417-435, 1999)." *Pest Management Science* **2000**, *56*(1):3-21.

Navalon S, Alvaro M, and Garcia H. "Reaction of chlorine dioxide with emergent water pollutants: Product study of the reaction of three β-lactam antibiotics with ClO_2." *Water Research* **2008**, *42*(8-9):1935-1942; doi:10.1016/j.watres.2007.11.023.

Nava-Ocampo AA, Alarcón-Almanza JM, Moyao-García D, Ramírez-Mora JC, and Salmerón J. "Undocumented drug utilization and drug waste increase costs of pediatric anesthesia care." *Fundamental and Clinical Pharmacology* **2004**, *18*(1):107-112; doi:10.1046/j.0767-3981.2003.00214.x.

Navas JM and Segner H. "Estrogen-mediated suppression of cytochrome P4501A (CYP1A) expression in rainbow trout hepatocytes: role of estrogen receptor." *Chemico-Biological Interactions* **2001**, *138*(3):285-298; doi:10.1016/S0009-2797(01)00280-0.

Navia MA. "A chicken in every pot, thanks to sulfonamide drugs." *Science* **2000**, *288*(5474):2132-2133; doi:10.1126/science.288.5474.2132.

NCCAM (National Center for Complementary and Alternative Medicine) "Home Page." 2008, http://altmed.od.nih.gov/nccam.

NCCOS "Pharmaceuticals in the Environment, Information for Assessing Risk: a database of available information on the general chemistry and toxicology of potential environmental levels of pharmaceuticals." National Centers for Coastal Ocean Science, Center for Coastal Environmental Health and Biomolecular Research 2006; http://www.chbr.noaa.gov/peiar/.

NCI "Dictionary of Cancer Terms: pharmacokinetics." Web Page maintained by National Cancer Institute, National Institutes of Health 2008, http://www.cancer.gov/templates/db_alpha.aspx?CdrID=44324.

NCPA "Protect Your Pharmacy Now! Prescription Disposal Program." Web Page maintained by National Community Pharmacists Association 2009, http://www.ncpanet.org/members/pdp.php.

NCSL. "State Prescription Drug Return, Reuse and Recycling Laws." National Conference of State Legislatures, November, 2008, 8 pp; http://www.ncsl.org/programs/health/Rx-Reuse.htm.

Neamtu M, Popa D-M, and Frimmel FH. "Simulated solar UV-irradiation of endocrine disrupting chemical octylphenol." *Journal of Hazardous Materials* **2009**, *164*(2-3):1561-1567; doi:10.1016/j.jhazmat.2008.08.024.

Neamtu M, Siminiceanu I, and Kettrup A. "Kinetics of nitromusk compounds degradation in water by ultraviolet radiation and hydrogen peroxide." *Chemosphere* **2000**, *40*(12):1407-1410; doi:10.1016/S0045-6535(99)00305-7.

Nebenführ A, Gallagher LA, Dunahay TG, Frohlick JA, Mazurkiewicz AM, Meehl JB*, et al.* "Stop-and-go movements of plant Golgi stacks are mediated by the acto-myosin system." *Plant Physiology* **1999**, *121*(4):1127-1141.

Nebot C, Gibb SW, and Boyd KG. "Quantification of human pharmaceuticals in water samples by high performance liquid chromatography-tandem mass spectrometry." *Analytica Chimica Acta* **2007**, *598*(1):87-94; doi:10.1016/j.aca.2007.07.029.

Neela FA, Nonaka L, and Suzuki S. "The diversity of multi-drug resistance profiles in tetracycline-resistant Vibrio species isolated from coastal sediments and seawater." *Journal of Microbiology* **2007**, *45*(1):64-68.

Neels H. "Cocaine and its metabolites in surface and waste water in Belgium." Belgian Science Policy, Brussels, Belgium, 2008, 3 pp; http://www.belspo.be/belspo/home/publ/pub_ostc/Drug/rDR32r_en.pdf.

Neff E. "Ecstasy is all the rave." Las Vegas Sun, 2000, 16 July D.

Negreira N, Canosa P, Rodriguez I, Ramil M, Rubf E, and Cela R. "Study of some UV filters stability in chlorinated water and identification of halogenated by-products by gas chromatography-mass spectrometry." *Journal of Chromatography* **2008**, *1178*(1-2):206-214.

Negreira N, Rodríguez I, Ramil M, Rubí E, and Cela R. "Sensitive determination of salicylate and benzophenone type UV filters in water samples using solid-phase microextraction, derivatization and gas chromatography tandem mass spectrometry." *Analytica Chimica Acta* **2009**, *638*(1):36-44; doi:10.1016/j.aca.2009.02.015.

Negreira N, Rodríguez I, Ramil M, Rubí E, and Cela R. "Solid-phase extraction followed by liquid chromatography-tandem mass spectrometry for the determination of hydroxylated benzophenone UV absorbers in environmental water samples." *Analytica Chimica Acta* **2009**, *654*(2):162-170; doi:10.1016/j.aca.2009.09.033.

Negwer M, Ed., "Organic-chemical drugs and their synonyms." 7th ed.; Akademie Verlag, Berlin, Germany, 2000, 1-944, 945-1900, 1901-2855, 2857-3937 pp.

Neiffer DL, Klein EC, Calle PP, Linn M, Terrell SP, Walker RL*, et al.* "Mortality associated with melarsomine dihydrochloride administration in two North American river otters (Lontra canadensis) and a red panda (Ailurus fulgens fulgens)." *Journal of Zoo and Wildlife Medicine* **2002**, *33*(3):242-248.

NEIWPCC. "Pharmaceuticals and Personal Care Products: State of the Science." in 2007 Northeast Water Science Forum, Portland, MA, New England Interstate Water Pollution Control Commission, Lowell, MA, 8-9 August, 2007, http://www.neiwpcc.org/ppcpconference/index.asp.

Nekvapil T, Borkovcová I, Smutná M, and Svobodová Z. "Estrogenic Profile of the Svratka and Svitava Rivers in the Brno Area." *Acta Veterianaria Brunensis* **2009**, *78*:313-317; doi:10.2754/avb200978020313.

Nel A, Xia T, Mädler L, and Li N. "Toxic potential of materials at the nanolevel." *Science* **2006**, *311*(5761):622-627; doi:10.1126/science.1114397.

Nelson J, Bishay F, van Roodselaar A, Ikonomou M, and Law FCP. "The use of in vitro bioassays to quantify endocrine disrupting chemicals in municipal wastewater treatment plant effluents." *Science of the Total Environment* **2007**, *374*(1):80-90; doi:10.1016/j.scitotenv.2006.11.031.

Nelson SJ, Hyma BA, Judd GC, Caballero M, Jones K, Kohl ME*, et al.* "Drugs Identified in Deceased Persons by Florida Medical Examiners - 2007 Report." Medical Examiners Commission, Florida Department of Law Enforcement, June, 2008, 43 pp; http://www.fdle.state.fl.us/content/getdoc/036671bc-4148-4749-a891-7e3932e0a483/Publications.aspx.

Nelson SJ, Thogmartin JR, Judd GC, Caballero M, Jones K, Dillinger RH*, et al.* "Drugs Identified in Deceased Persons by Florida Medical Examiners - 2005 Report." Medical Examiners Commission, Florida Department of Law Enforcement, May, 2006, 41 pp; http://www.fdle.state.fl.us/content/getdoc/036671bc-4148-4749-a891-7e3932e0a483/Publications.aspx.

Nelson SJ, Thogmartin JR, Judd GC, Caballero M, Jones K, Dillinger RH*, et al.* "Drugs Identified in Deceased Persons by Florida Medical Examiners - 2006 Report." Medical Examiners Commission, Florida Department of Law Enforcement, June, 2007, 42 pp; http://www.fdle.state.fl.us/content/getdoc/036671bc-4148-4749-a891-7e3932e0a483/Publications.aspx.

Nemathaga F, Maringa S, and Chimuka L. "Hospital solid waste management practices in Limpopo Province, South Africa: A case study of two hospitals." *Waste Management* **2008**, *28*(7):1236-1245.

Nentwig G. "Effects of Pharmaceuticals on Aquatic Invertebrates. Part II: The Antidepressant Drug Fluoxetine." *Archives of Environmental Contamination and Toxicology* **2007**, *52*(2):163-170; doi:10.1007/s00244-005-7190-7.

Nentwig G. "Another Example of Effects of Pharmaceuticals on Aquatic Invertebrates: Fluoxetine and Ciprofloxacin." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 13, pp 205-222; doi:10.1007/978-3-540-74664-5_13; http://www.springerlink.com/content/h225400718016x78/?p=2276010dfe344d2b82f01a416c266324&pi=0.

Nentwig G, Oetken M, and Oehlmann J. "Effects of pharmaceuticals on aquatic invertebrates-the example of carbamazepine and clofibric acid." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 16, pp 197-208; http://www.cplbookshop.com/contents/C772.htm.

Nepal PR, Chun M-K, and Choi H-K. "Preparation of floating microspheres for fish farming." *International Journal of Pharmaceutics* **2007**, *341*(1-2):85-90; doi:10.1016/j.ijpharm.2007.03.049.

NERC. "Franklin County Pilot Unwanted Medications Collection." Northeast Recycling Council, Turners Falls (Montague), MA, 9 December, 2004, 7 pp; http://www.nerc.org/.

NESC. "Pharmaceuticals and Personal Care Products: An Overview." *Pipeline (National Environmental Services Center)* **2007**, *18*(1):1-7.

Nessa K, Quaiyum MA, and Khuda B-e-. "Waste management in healthcare facilities: A review." Centre for Health and Population Research, Khan MSI, Ed., Dhaka, Bangladesh, 2001, 39 pp; http://www.icddrb.org/images/wp144.pdf.

Nessel RJ, Wallace DH, Wehner TA, Tait WE, and Gomez L. "Environmental fate of ivermectin in a cattle feddlot [sic]." *Chemosphere* **1989**, *18*(7-8):1531-1541.

Nettekoven M and Thomas AW. "Accelerating drug discovery by integrative implementation of laboratory automation in the work flow." *Current Medicinal Chemistry* **2002**, *9*(23):2179-2190.

Neubert C, Lange R, and Steger-Hartmann T. "Gadolinium Containing Contrast Agents for Magnetic Resonance Imaging (MRI): Investigations on the Environmental Fate and Effects." in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press; Boca Raton, FL, 2007, Chapter 4, pp 101-122; http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Treatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#PPR8,M1.

Neuhaus-Steinmetz U and Rensing L. "Heat shock protein induction by certain chemical stressors is correlated with their cytotoxicity, lipophilicity and protein-denaturing capacity." *Toxicology* **1997**, *123*(3):185-195; doi:10.1016/S0300-483X(97)00124-8.

Neumann PJ, "Are pharmaceuticals cost-effective? Lessons for the medicare drug benefit debate." *Risk in Perspective*, Harvard School of Public Health - Harvard Center for Risk Analysis, 2000, 8 5 May: http://www.hcra.harvard.edu/rip/risk_in_persp_May2000.pdf.

Neuwoehner J, Fenner K, and Escher BI. "Physiological Modes of Action of Fluoxetine and its Human Metabolites in Algae." *Environmental Science & Technology* **2009**, *43*(17):6830-6837; doi:10.1021/es9005493.

Nevada State Board of Pharmacy. "Annual Returned Drug Report." Nevada State Board of Pharmacy, 2009, 4 pp; http://bop.nv.gov/PDFs/Return_of_Drugs_Report_2009.pdf.

New AP, Freitas dos Santos LM, Lo Biundo G, and Spicq A. "Analytical techniques used for monitoring the biodegradation of fluorinated compounds in waste streams from pharmaceutical production." *Journal of Chromatography A* **2000**, *889*(1-2):177-184; doi:10.1016/S0021-9673(00)00571-9.

New Hampshire DES "Pharmaceuticals and Personal Care Products in the Environment." Web Page maintained by New Hampshire Department of Environmental Services 2009, http://des.nh.gov/organization/divisions/water/dwgb/dwspp/pharmaceuticals.htm.

New World Encyclopedia contributors "Chromatophore." Web Page maintained by New World Encyclopedia (15 January 2009); 2008, http://www.newworldencyclopedia.org/entry/Chromatophore?oldid=781270.

New York State DEC. "Proper Disposal of Household Prescriptions and Over-the-Counter Drugs." Department of Environmental Conservation, 2008, http://www.dec.ny.gov/chemical/45083.html.

Newbold KB, Eyles J, and McKeary M. "Chemicals of concern in Ontario – update 2007 emerging contaminant issues." Health Canada, McMaster Institute of Environment & Health, McMaster University, Hamilton, Ontario, March, 2007, 77 pp; http://www.mcmaster.ca/mieh/research/Reports/COC_Report_Update.pdf.

Newby NC, Mendonça PC, Gamperl K, and Stevens ED. "Pharmacokinetics of morphine in fish: Winter flounder (Pseudopleuronectes americanus) and seawater-acclimated rainbow trout (Oncorhynchus mykiss)." *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* **2006**, *143*(3):275-283; doi:10.1016/j.cbpc.2006.03.003.

Newby NC, Wilkie MP, and Stevens ED. "Morphine uptake, disposition, and analgesic efficacy in the common goldfish (Carassius auratus)." *Canadian Journal of Zoology* **2009**, *87*(5):388-399; doi:10.1139/Z09-023.

Newman MC and Clements WH. "Ecotoxicology: A Comprehensive Treatment." CRC Press, 2007, 880 pp; http://www.crcpress.com/shopping_cart/products/product_detail.asp?isbn=0849333571.

Nghiem LD. "Removal of emerging trace organic contaminants by nanofiltration and reverse osmosis." Doctoral Dissertation, University of Wollongong, Wollongong, Australia, 2005. 227 pp; http://www.library.uow.edu.au/adt-NWU/public/adt-NWU20060404.155823/.

Nghiem LD and Coleman PJ. "NF/RO filtration of the hydrophobic ionogenic compound triclosan: Transport mechanisms and the influence of membrane fouling." *Separation and Purification Technology* **2008**, *62*(3):709-716; doi:10.1016/j.seppur.2008.03.027.

Nghiem LD and Hawkes S. "Effects of membrane fouling on the nanofiltration of pharmaceutically active compounds (PhACs): Mechanisms and role of membrane pore size." *Separation and Purification Technology* **2007**, *57*(1):176-184; doi:1016/j.seppur.2007.04.002.

Nghiem LD, Manis A, Soldenhoff K, and Schafer AI. "Estrogenic hormone removal from wastewater using NF/RO membranes." *Journal of Membrane Science* **2004**, *242*(1-2):37-45; doi:10.1016/j.memsci.2003.12.034.

Nghiem LD, McCutcheon J, Schafer AI, and Elimelech M. "The role of endocrine disrupters in water recycling: risk or mania?" *Water Science and Technology* **2004**, *50*(2):215-220.

Nghiem LD and Schafer AI. "Adsorption and transport of trace contaminant estrone in NF/RO membranes." *Environmental Engineering Science* **2002**, *19*(6):441-451.

Nghiem LD and Schafer AI. "Critical risk points of nanofiltration and reverse osmosis processes in water recycling applications." *Desalination* **2006**, *187*(1-3):303-312; doi:10.1016/j.desal.2005.04.089.

Nghiem LD, Schafer AI, and Elimelech M. "Removal of natural hormones by nanofiltration membranes: Measurement, modeling, and mechanisms." *Environmental Science & Technology* **2004**, *38*(6):1888-1896; doi:10.1021/es034952r.

Nghiem LD, Schafer AI, and Elimelech M. "Pharmaceutical Retention Mechanisms by Nanofiltration Membranes." *Environmental Science & Technology* **2005**, *39*(19):7698-7705.

Nghiem LD, Schafer AI, and Elimelech M. "Role of electrostatic interactions in the retention of pharmaceutically active contaminants by a loose nanofiltration membrane." *Journal of Membrane Science* **2006**, *286*(1-2):52-59; doi:10.1016/j.memsci.2006.09.011.

Nghiem LD, Schafer AI, and Waite TD. "Adsorption of estrone on nanofiltration and reverse osmosis membranes in water and wastewater treatment." *Water Science and Technology* **2002**, *46*(4-5):265-272.

Nghiem LD, Tadkaew N, and Sivakumar M. "Removal of trace organic contaminants by submerged membrane bioreactors." *Desalination* **2009**, *236*(1-3):127-134; doi:10.1016/j.desal.2007.10.059.

Nguyen A, Tzianetas R, and Louie S. "Responsible drug disposal program in North Vancouver." *Canadian Medical Association Journal* **2002**, *166*(10):1252-a-1253.

NGWA. "Emerging Issues Conference - pharmaceuticals - endocrine disrupting chemicals - pesticides - arsenic and radon." in Emerging Issues Conference, Minneapolis, Minnesota, National Ground Water Association, 7-8 June, 2000.

NHS "Dictionary of medicines and devices." NHS Business Services Authority 2008; www.dmd.medicines.org.uk.

Niazi SK. "Handbook of Pharmaceutical Manufacturing Formulations: Semisolid Products." in CRC Press; Boca Raton, FL, 2004, pp 1-263; http://www.informaworld.com/smpp/title~db=all~content=t727563552~tab=citation.

Nichols JW. "Recent Advances in the Development and Use of Physiologically Based Toxicokinetic Models for Fish." in *Xenobiotics in Fish*, Smith DJ, Gingerich WH and Beconi-Barker MG, Eds., Kluwer Academic/Plenum Publishers; New York, 1999, Chapter 7, pp 87-104; http://bookshop.blackwell.co.uk/jsp/id/Xenobiotics_in_Fish/9780306461897#synopsis.

Nichols JW, Fitzsimmons PN, and Burkhard LP. "In vitro-in vivo extrapolation of quantitative hepatic biotransformation data for fish. II. Modeled effects on chemical bioaccumulation." *Environmental Toxicology and Chemistry* **2007**, *26*(6):1304-1319.

Nichols KM, Miles-Richardson SR, Snyder EM, and Giesy JP. "Effects of exposure to municipal wastewater in situ on the reproductive physiology of the fathead minnow (Pimephales promelas)." *Environmental Toxicology and Chemistry* **1999**, *18*(9):2001-2012.

Nichols V, Thériault-Dubé I, Touzin J, Delisle J-F, Lebel D, Bussiéres J-F*, et al.* "Risk Perception and Reasons for Noncompliance in Pharmacovigilance: A Qualitative Study Conducted in Canada." *Drug Safety* **2009**, *32*(7):579-590.

Nicholson B. "Organic chemical issues in wastewater quality - A review of current analytical methods." Australian Water Quality Centre and CRC for Water Quality and Treatment, 2006, 178 pp; http://www.waterquality.crc.org.au/publications/Chemical_issues_in_wastewater_quality.pdf.

Nicholson DW. "From bench to clinic with apoptosis-based therapeutic agents." *Nature* **2000**, *407*:810-816; doi:10.1038/35037747.

Nicolau A, Dias N, Mota M, and Lima N. "Trends in the use of protozoa in the assessment of wastewater treatment." *Research in Microbiology* **2001**, *152*(7):621-630; doi:10.1016/S0923-2508(01)01241-4.

Nidel CT. "Regulating the Fate of Pharmaceutical Drugs: A New Prescription for the Environment." *Food and Drug Law Journal* **2003**, *58*(1):81-102.

Nie X, Wang X, Chen J, Zitko V, and An T. "Response of the freshwater alga chlorella vulgaris to trichloroisocyanuric acid and ciprofloxacin." *Environmental Toxicology and Chemistry* **2008**, *27*(1):168-173; doi:10.1897/07-028.1.

Nie X-P, Chen J-F, Wang X, Zhou X-Z, Lu J-Y, and Yang Y-F. "Bioaccumulation of Ciprofloxacin in Allogynogenetic crucian carp and its toxic effects (in Chinese)." *Acta Ecologica Sinica* **2008**, *28*(1):246-252.

Nie Y, Qiang Z, Zhang H, and Adams C. "Determination of endocrine-disrupting chemicals in the liquid and solid phases of activated sludge by solid phase extraction and gas chromatography-mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(42):7071-7080; doi:10.1016/j.chroma.2009.08.064.

NIEHS "Chemical Effects in Biological Systems (CEBS) knowledgebase." National Institute of Environmental Health Sciences - Environmental Health Sciences 2008; http://cebs.niehs.nih.gov/cebs-browser/cebsHome.do.

Nielen MWF, van Engelen MC, Zuiderent R, and Ramaker R. "Screening and confirmation criteria for hormone residue analysis using liquid chromatography accurate mass time-of-flight, Fourier transform ion cyclotron resonance and orbitrap mass spectrometry techniques." *Analytica Chimica Acta* **2007**, *586*(1-2):122-129; doi:10.1016/j.aca.2006.08.055.

Nielsen L and Baatrup E. "Quantitative studies on the effects of environmental estrogens on the testis of the guppy, Poecilia reticulata." *Aquatic Toxicology* **2006**, *80*(2):140-148; doi:10.1016/j.aquatox.2006.08.004.

Niemczyk HJ and Van Arnum SD. "A green synthetic process for the preparation of water-soluble drugs: pegylation of menadiol and podophyllotoxin." *Green Chemistry Letters and Reviews* **2008**, *1*(3):165 - 171; doi:10.1080/17518250802401273.

Niemi M, Sibakov M, and Niemela S. "Antibiotic resistance among different species of fecal coliforms isolated from water samples." *Applied and Environmental Microbiology* **1983**, *45*(1):79-83.

Nieto A, Borrull F, Marce RM, and Pocurull E. "Selective extraction of sulfonamides, macrolides and other pharmaceuticals from sewage sludge by pressurized liquid extraction." *Journal of Chromatography A* **2007**, *1174*(1-2):125-131; doi:10.1016/j.chroma.2007.09.068.

Nieto A, Borrull F, Marce RM, and Pocurull E. "Pressurized Liquid Extraction of Contaminants from Environmental Samples." *Current Analytical Chemistry* **2008**, *4*(2):157-167; doi:10.2174/157341108784587821.

Nieto A, Borrull F, Marcé RM, and Pocurull E. "Determination of personal care products in sewage sludge by pressurized liquid extraction and ultra high performance liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(30):5619-5625; doi:10.1016/j.chroma.2009.05.061.

Nieto A, Borrull F, Pocurull E, and Marc RM. "Pressurized liquid extraction of pharmaceuticals from sewage-sludge." *Journal of Separation Science* **2007**, *30*(7):979-984; doi:10.1002/jssc.200600360.

Nieto A, Peschka M, Borrull F, Pocurull E, Marcé RM, and Knepper TP. "Phosphodiesterase type V inhibitors: Ocurrence and fate in wastewater and sewage sludge." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.11.009.

NIH "NIH Roadmap Initiatives." Web Page maintained by Office of Portfolio Analysis and Strategic Initiatives, National Institutes of Health 2008, http://nihroadmap.nih.gov/initiativeslist.asp.

NIH "Chemical Structure Lookup Service." National Institutes of Health, National Library of Medicine 2008; http://householdproducts.nlm.nih.gov/index.htm, http://cholla.chemnavigator.com/cgi-bin/lookup/results?query=C13H19N5O2&type=formula.

NIH "NIH Roadmap Epigenomics Program." Web Page maintained by National Institutes of Health, Division of Program Coordination, Planning, and Strategic Initiatives (DPCPSI) 2009, http://nihroadmap.nih.gov/epigenomics/.

NIH - National Institutes of Health. "The National Institutes of Health (NIH) Selects Arkansas Company to Test New Technology for Efficient Removal of Pharmaceuticals from wastewater BlueInGreen Awarded." **2008**, 2 pp; www.blueingreen.biz.

Nikolai LN. "Simultaneous quantification of chiral and achiral pharmaceuticals in surface waters and wastewaters using chiral liquid chromatography-tandem mass spectrometry." Masters Dissertation, Department of Chemistry, 2006. http://www.worldcat.org/oclc/123124717.

Nikolai LN, McClure EL, MacLeod SL, and Wong CS. "Stereoisomer quantification of the β-blocker drugs atenolol, metoprolol, and propranolol in wastewaters by chiral high-performance liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2006**, *1131*(1-2):103-109; doi:10.1016/j.chroma.2006.07.033.

Nikolaidis NP. "Bridging fate, exposure, and ecotoxicity of contaminants." *Environmental Research* **2008**, *106*(3):287-288; doi:10.1016/j.envres.2008.01.001.

Nikolaou A, Meric S, and Fatta D. "Occurrence patterns of pharmaceuticals in water and wastewater environments." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1225-1234; doi:10.1007/s00216-006-1035-8.

Nikolaou AD, Meric S, Lekkas DF, Naddeo V, Belgiorno V, Groudev S*, et al.* "Multi-parametric water quality monitoring approach according to the WFD application in Evros trans-boundary river basin: priority pollutants." *Desalination* **2008**, *226*(1-3):306-320; doi:10.1016/j.desal.2007.02.113.

Nilsen E, Rosenbauer RR, Furlong ET, Burkhardt MR, Werner SL, Greaser L*, et al.* "Pharmaceuticals, Personal Care Products and Anthropogenic Waste Indicators Detected in Streambed Sediments of the Lower Columbia River and Selected Tributaries." presented at 6th International Conference on Pharmaceuticals and Endocrine Disrupting Chemicals in Water, National Ground Water Association, at Costa Mesa, CA, 2007; http://info.ngwa.org/gwol/pdf/080482532.pdf.

Nimrod AC and Benson WH. "Reproduction and development of Japanese medaka following an early life stage exposure to xenoestrogens." *Aquatic Toxicology* **1998**, *44*(1-2):141-156; doi:10.1016/S0166-445X(98)00062-9.

Ning B, Graham N, Zhang Y, Nakonechny M, and El-Din MG. "Degradation of Endocrine Disrupting Chemicals by Ozone/AOPs." *Ozone: Science and Engineering* **2007**, *29*(3):153-176; doi:10.1080/01919510701200012.

Ning B and Graham NJD. "Ozone Degradation of Iodinated Pharmaceutical Compounds." *Journal of Environmental Engineering* **2008**, *134*(12):944-953; doi:10.1061/(ASCE)0733-9372(2008)134:12(944).

Ning B, Graham NJD, and Lickiss PD. "Degradation of X-ray contrast media compounds by combined ozone and ultrasound." *Water Environment Research* **2007**, *79*(12):2427-2436; doi:10.2175/106143007X212120.

NIOSH. "Nitroglycerin." Immediately Dangerous To Life or Health Concentrations (IDLHs), 1996, http://www.cdc.gov/NIOSH/IDLH/55630.html.

NIOSH. "Preventing Occupational Exposure to Antineoplastic and Other Hazardous Drugs in Health Care Settings, Appendix A: Drugs Considered Hazardous." NIOSH Publication No. 2004-165, Atlanta, GA, National Institute for Occupational Safety and Health, 2004. http://www.cdc.gov/niosh/docs/2004-165/pdfs/2004-165.pdf.

Niquille A and Bugnon O. "Pharmaceuticals and Environment: Role of Community Pharmacies." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 29, pp 467-473; doi:10.1007/978-3-540-74664-5_29; http://www.springerlink.com/content/l60u35r804336qq6/?p=9ed3dcab782d422fa25c2de402461f54&pi=28.

Nishi I, Kawakami T, and Onodera S. "Monitoring of Triclosan in the Surface Water of the Tone Canal, Japan." *Bulletin of Environmental Contamination and Toxicology* **2008**, *80*(2):163-166; doi:10.1007/s00128-007-9338-9.

Nishi I, Komuro T, Kawakami T, and Onodera S. "In Vitro Cyclooxygenase Inhibition Assay for Evaluating Ecotoxicity of the Surface Water and Domestic Wastewater in the Tone Canal, Japan." *Archives of Environmental Contamination and Toxicology* **2009**, *In press*; doi:10.1007/s00244-009-9369-9.

Nisse P, Lhermitte M, Dherbecourt V, Fourier C, Leclerc F, Houdret N*, et al.* "[Fatal intoxication after accidental ingestion of viscous 2% lidocaine in a young child]." *Acta Clinica Belgica. Supplementum* **2002**, (1):51-53.

NIST "NIST/EPA/NIH Mass Spectral Library with Search Program." Web Page maintained by National Institute of Standards and Technology 2005, http://www.nist.gov/srd/nist1a.htm.

Nitschke L, Malcomber I, Tibazarwa C, and Steber J. "Is the EU ecolabel DID list a useful environmental evaluation tool for detergent-like consumer products?" *Tenside Surfactants Detergents* **2007**, *44*(3):155-159.

Niu H, Cai Y, Shi Y, Wei F, Liu J, Mou S*, et al.* "Evaluation of carbon nanotubes as a solid-phase extraction adsorbent for the extraction of cephalosporins antibiotics, sulfonamides and phenolic compounds from aqueous solution." *Analytica Chimica Acta* **2007**, *594*(1):81-92; doi:10.1016/j.aca.2007.05.017.

Niven SJ, Snape J, Hetheridge M, Evans M, McEvoy J, and Rowland SJ. "Investigations of cholesterol transformation during sewage treatment: relevance to estrogen formation pathways?" *Science of the Total Environment* **2001**, *279*(1-3):75-86; doi:10.1016/S0048-9697(01)00727-6.

NLM & NIH "Search: Drugs, Supplements, and Herbal Information U.S. National Library of Medicine and National Institutes of Health {database}." U.S. National Library of Medicine, and National Institutes of Health 2008; http://www.nlm.nih.gov/medlineplus/medicines.html.

No authors listed. "Workshop on Drug Disposition and Metabolism in Aquatic Species. August 20, 1984, Gaithersburg, Maryland. Proceedings." *Veterinary and Human Toxicology* **1986**, *28*(Suppl 1):1-56.

No Miracle "NOvel Methods for Integrated Risk Assessment of CumuLative stressors in Europe." 2009, http://nomiracle.jrc.ec.europa.eu/default.aspx.

Noble HL. "The effect of organic amendment on the environmental fate of pharmaceuticals in soil." Doctoral Dissertation, University of York, United Kingdom, 2007.

Noel HL, Hopkin SP, Hutchinson TH, Williams TD, and Sibly RM. "Population growth rate and carrying capacity for springtails Folsomia candida exposed to ivermectin." *Ecological Applications* **2006**, *16*(2):656-665; doi:10.1890/1051-0761(2006)016[0656:PGRACC]2.0.CO;2.

Nogueira-Lima AC, Gesteira TCV, and Mafezoli J. "Oxytetracycline residues in cultivated marine shrimp (Litopenaeus vannamei Boone, 1931) (Crustacea, Decapoda) submitted to antibiotic treatment." *Aquaculture* **2006**, *254*(1-4):748-757; doi:10.1016/j.aquaculture.2005.11.021.

Noij THM, Mons M, Versteegh A, and Stoks P. "Geneesmiddelen en de drinkwatervoorziening in Nederland [Drugs and drinking water in the Netherlands]." *H2O Journal Supply and Wastewater* **2003**, *36*(22):17-20.

Nolan MW, Smith SA, and Jones D. "Pharmacokinetics of oxytetracycline in the American horseshoe crab, Limulus polyphemus." *Journal of Veterinary Pharmacology and Therapeutics* **2007**, *30*(5):451-455; doi:10.1111/j.1365-2885.2007.00891.x.

Nolte J, Bataineh M, Haciosmanoglu B, and Grote M. "Membrane systems for the separation of pharmaceutical residues from water." in Proceedings of the International Conference IEX2004 Ion Exchange Technology for Today and Tomorrow, Cambridge, UK, Society of Chemical Industry (SCI), London, 4-8 July, 2004.

Nonaka L, Ikeno K, and Suzuki S. "Distribution of tetracycline resistance gene, tet(M), in Gram-positive and Gram-negative bacteria isolated from sediment and seawater at a coastal aquaculture site in Japan." *Microbes and Environments* **2007**, *22*(4):355-364; doi:10.1128/AAC.50.2.702-708.2006.

Nonaka L and Suzuki S. "Monitoring of drug resistant microorganisms in aquatic environments." *Nippon Suisan Gakkaishi* **2007**, *73*(2):317-320; doi:10.2331/suisan.73.317.

Noppe H, De Wasch K, Poelmans S, Van Hoof N, Verslycke T, Janssen CR*, et al.* "Development and validation of an analytical method for detection of estrogens in water." *Analytical and Bioanalytical Chemistry* **2005**, *382*(1):91-98; doi:10.1007/s00216-005-3174-8.

Noppe H, Verslycke T, De Wulf E, Verheyden K, Monteyne E, Van Caeter P*, et al.* "Occurrence of estrogens in the Scheldt estuary: A 2-year survey." *Ecotoxicology and Environmental Safety* **2007**, *66*(1):1-8; doi:10.1016/j.ecoenv.2006.04.005.

Normal A. "How to donate unused medicine: The starfish project." 2008; http://www.ehow.com/how_2198300_donate-unused-leftover-medicines.html, http://www.thestarfishproject.org/.

NORMAN. "Chemical analysis of emerging pollutants." Institut Menorqui d'Estudis (IME), Mao, Menorca (Balearic Island), Spain, 27-28 November, 2006, 116 pp; http://www.norman-network.net/index_php.php?module=public/workshops/menorca&menu2=public/workshops/workshops&interface=1024&lang=en.

NORMAN. "Emerging environmental pollutants: Key Issues and Challenges." Stresa, Italy, 19-20 June, 2006, 124 pp;

http://www.norman-network.net/index_php.php?module=public/workshops/stresa&menu2=public/workshops/workshops&interface=1024&lang=en.

NORMAN. "New tools for bio-monitoring of emerging pollutants — Amsterdam, The Netherlands." IVM - Institute for Environmental Studies, Vrije Universiteit, Amsterdam, The Netherlands, 29-30 October, 2007, 44 pp; http://www.norman-network.net/index_php.php?module=public/workshops/amsterdam&menu2=public/workshops/workshops&interface=1024&lang=en.

NORMAN. "First interlaboratory study on NSAID residue analysis in water." Contract No 018486, April, 2007, 36 pp; http://www.norman-network.com/public_docs/norman_c2_2_-_interlab_i_report.pdf.

NORMAN "6th framework programme, priority 6.3 - Global change and ecosystems." 2008, http://www.norman-network.com/index_php.php?menu2=public/about_us/about_us&module=public/about_us/the_project.

NORMAN "EMPOMASS." 2008; http://www.norman-network.com/index_php.php?module=public/databases/databasex&menu2=public/databases/databases.

NORMAN "EMPODAT." 2008; http://www.norman-network.com/index_php.php?module=public/databases/databasex&menu2=public/databases/databases.

NORMAN "EMPOMAP." 2008; http://www.norman-network.com/index_php.php?module=public/databases/databasex&menu2=public/databases/databases.

NORMAN, Heath E, and Kosjek T. "Second interlaboratory exercise on determination of NSAIDs in water samples." Contract No 018486, April, 2007, 61 pp; http://www.norman-network.com/public_docs/interlabo/final_2nd_interlab_report-150708.pdf.

Noroozifar M and Khorasani-Motlagh M. "Solid-phase iodine as an oxidant in flow injection analysis: determination of ascorbic acid in pharmaceuticals and foods by background correction." *Talanta* **2003**, *61*(2):173-179; doi:10.1016/S0039-9140(03)00247-9.

North Carolina Board of Pharmacy Investigations and Inspections "Drug disposal procedures." 2008, http://www.ncbop.org/Forms/DrugDisposalForm.pdf.

Northington RM and Hershey AE. "Effects of stream restoration and wastewater treatment plant effluent on fish communities in urban streams." *Freshwater Biology* **2006**, *51*(10):1959-1973; doi:10.1111/j.1365-2427.2006.01626.x.

Northrop JP, Bednarski M, Barbieri SO, Lu AT, Nguyen D, Varadarajan J*, et al.* "Cell surface expression of single chain antibodies with applications to imaging of gene expression in vivo." *European Journal of Nuclear Medicine and Molecular Imaging* **2003**, *30*:1292-1298; doi:10.1007/s00259-003-1237-7.

Northwest Product Stewardship Council "Pharmaceuticals and Products Stewardship." 2008, http://www.productstewardship.net/productsPharmaceuticalsIntlprograms.html.

Notari S, Mancone C, Tripodi M, Narciso P, Fasano M, and Ascenzi P. "Determination of anti-HIV drug concentration in human plasma by MALDI-TOF/TOF." *Journal of Chromatography B: Biomedical Sciences and Applications* **2006**, *833*(1):109-116; doi:10.1016/j.jchromb.2006.02.010.

Notch EG and Mayer GD. "17α-Ethinylestradiol hinders nucleotide excision repair in zebrafish liver cells." *Aquatic Toxicology* **2009**, *In Press*; doi:10.1016/j.aquatox.2009.01.001.

Notch EG and Mayer GD. "Wastewater treatment effluent alters nucleotide excision repair in zebrafish (Danio rerio)." *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* **2009**, *150*(2):307-313; doi:10.1016/j.cbpc.2009.05.009.

Notch EG, Miniutti DM, and Mayer GD. "17α-Ethinylestradiol decreases expression of multiple hepatic nucleotide excision repair genes in zebrafish (Danio rerio)." *Aquatic Toxicology* **2007**, *84*(3):301-309; doi:10.1016/j.aquatox.2007.06.006.

Nováková L, Šatínský D, and Solich P. "HPLC methods for the determination of simvastatin and atorvastatin." *Trends in Analytical Chemistry* **2008**, *27*(4):352-367; doi:10.1016/j.trac.2008.01.013.

Novick RP. "MEDICINE: Combating Impervious Bugs." *Science* **2008**, *319*(5865):910-911; doi:10.1126/science.1154769.

Nowara A, Burhenne J, and Spiteller M. "Binding of Fluoroquinolone Carboxylic Acid Derivatives to Clay Minerals." *Journal of Agricultural and Food Chemistry* **1997**, *45*(4):1459-1463; doi:10.1021/jf960215l.

Nowotny N, Epp B, vonSonntag C, and Fahlenkamp H. "Quantification and Modeling of the Elimination Behavior of Ecologically Problematic Wastewater Micropollutants by Adsorption on Powdered and Granulated Activated Carbon." *Environmental Science & Technology* **2007**, *41*(6):2050-2055.

Nozal L, Arce L, Rios A, and Valcarcel M. "Development of a screening method for analytical control of antibiotic residues by micellar electrokinetic capillary chromatography." *Analytica Chimica Acta* **2004**, *523*(1):21-28; doi:10.1016/j.aca.2004.04.058.

Nozal L, Arce L, Simonet BM, Rios A, and Valcarcel M. "Rapid determination of trace levels of tetracyclines in surface water using a continuous flow manifold coupled to a capillary electrophoresis system." *Analytica Chimica Acta* **2004**, *517*(1-2):89-94; doi:10.1016/j.aca.2004.04.050.

NPA. "U.S. Natural Standard “Positive List” of Ingredients." Natural Products Association, 2008, 14 pp; http://www.naturalproductsassoc.org/site/DocServer/AllowedNaturalList.pdf?docID=7042.

NPA "Promoting natural products for healthy lifestyles." Natural Products Association 2008; http://www.naturalproductsassoc.org/site/PageServer?pagename=naturalseal_what_ingredients.

NRC, Ed., "Identifying Future Drinking Water Contaminants." National Research Council, The National Academies Press, Washington, DC, 1999, 276 pp; http://books.nap.edu/catalog/9595.html.

NRC. "Characterizing the Potential Human Toxicity from Low Doses of Pharmaceuticals in Drinking Water: Are New Risk Assessment Methods or Approaches Required?" in National Research Council, Sixth Workshop of the Standing Committee on Risk Analysis Issues and Reviews, The National Academy of Sciences, Washington, DC, National Research Council, 11-12 December, 2008, http://dels.nas.edu/best/risk_analysis/Documents/Workshop%206%20-%20Public%20Agenda_Pharmaceuticals_POST.pdf, http://dels.nas.edu/best/risk_analysis/Documents/abstract%20Approaches%20to%20Screening%20for%20risk%20final%201108.pdf, http://dels.nas.edu/best/risk_analysis/Documents/EPA%20Pharmaceuticals%20in%20water%20white%20paper.pdf, http://dels.nas.edu/best/risk_analysis/evreg_Dec_11-12.php.

Nriagu JO. "Book Review: Thomas Ternes and Adriano Joss, Editors, Human Pharmaceuticals, Hormones and Fragrances: The Challenge of Micropollutants in Urban Water Management, [IWA Publishing (2006) ISBN 1843390930 468 pp]." *Science of the Total Environment* **2007**, *372*(2-3):729-729; doi:10.1016/j.scitotenv.2006.10.031.

NRW L. "Eintrag von Arzneimitteln und deren Verhalten und Verbleib in der Umwelt - Literaturstudie [Entry of drugs and their behavior and fate in the environment - Literature review]." Landesamt für Natur, Umwelt und Verbraucherschutz Nordrhein-Westfalen [State Office for Nature, Environment and Consumer Protection], North Rhine-Westphalia, Recklinghausen, Germany, 2007, 184 pp; http://www.lanuv.nrw.de/veroeffentlichungen/fachberichte/fabe2/fabe2.pdf.

NSF International. "Pharmaceuticals in Drinking Water Guide." National Sanitation Foundation, Ann Arbor, MI, 1 pp; http://www.nsf.org/consumer/newsroom/pdf/pharmaceuticals_water.pdf.

NSRC. "NSRC Featured Project: Exposure Of Freshwater Sharks To Human Pharmaceuticals." National Shark Research Consortium, http://www.flmnh.ufl.edu/fish/sharks/nsrc/featproj05.htm.

Nunes B, Carvalho F, and Guilhermino L. "Acute and chronic effects of clofibrate and clofibric acid on the enzymes acetylcholinesterase, lactate dehydrogenase and catalase of the mosquitofish, Gambusia holbrooki." *Chemosphere* **2004**, *57*(11):1581-1589; doi:10.1016/j.chemosphere.2004.09.018.

Nunes B, Carvalho F, and Guilhermino L. "Acute toxicity of widely used pharmaceuticals in aquatic species: Gambusia holbrooki, Artemia parthenogenetica and Tetraselmis chuii." *Ecotoxicology and Environmental Safety* **2005**, *61*(3):413-419; doi:10.1016/j.ecoenv.2004.08.010.

Nunes B, Carvalho F, and Guilhermino L. "Effects of widely used pharmaceuticals and a detergent on oxidative stress biomarkers of the crustacean Artemia parthenogenetica." *Chemosphere* **2006**, *62*(4):581-594; doi:10.1016/j.chemosphere.2005.06.013.

Nunes B, Gaio AR, Carvalho F, and Guilhermino L. "Behaviour and biomarkers of oxidative stress in Gambusia holbrooki after acute exposure to widely used pharmaceuticals and a detergent." *Ecotoxicology and Environmental Safety* **2008**, *71*(2):341-354; doi:10.1016/j.ecoenv.2007.12.006.

Nwankpa C, Hammond E, and LaiHing K. "Detection of pharmaceuticals and personal care products in industrial and residential effluent wastewater." *Abstracts of Papers - American Chemical Society* **2006**, *231*(March 26).

Nyamweya N, Mehta KA, and Hoag SW. "Characterization of the interactions between polymethacry late-based aqueous polymeric

dispersions and aluminum lakes." *Journal of Pharmaceutical Sciences* **2001**, *90*(12):1937-1947; doi:10.1002/jps.1144.

Nygaard K, Lunestad BT, Hektonen H, Berge JA, and Hormazabal V. "Resistance to oxytetracycline, oxolinic acid and furazolidone in bacteria from marine sediments." *Aquaculture* **1992**, *104*(1-2):31-36; doi:10.1016/0044-8486(92)90135-8.

NYWEA. "Contaminants of Emerging Concern for Our Water Environment: Prevalence of Pharmaceuticals and Steps for Prevention and Removal." *Clearwaters* **2008**, *38*(3).

Nzeako BC, Okafor N, and Inyang MM. "Gross bacterial contamination associated with mortality in catfish fingerlings during transportation." *South African Journal of Wildlife Research* **2001**, *31*(3-4):93-97.

Oakes KD, McMaster ME, and Van Der Kraak GJ. "Oxidative stress responses in longnose sucker (Catostomus catostomus) exposed to pulp and paper mill and municipal sewage effluents." *Aquatic Toxicology* **2004**, *67*(3):255-271; doi:10.1016/j.aquatox.2004.01.007.

Oaks JL, Gilbert M, Virani MZ, Watson RT, Meteyer CU, Rideout BA*, et al.* "Diclofenac residues as the cause of vulture population decline in Pakistan." *Nature* **2004**, *427*(6975):630-633; doi:10.1038/nature02317.

Obando MA, Estela JM, and Cerdà V. "Multi-syringe chromatography (MSC) system for the on-line solid-phase extraction and determination of hydrochlorothiazide and losartan potassium in superficial water, groundwater and wastewater outlet samples." *Journal of Pharmaceutical and Biomedical Analysis* **2008**, *48*(1):212-217; doi:10.1016/j.jpba.2008.05.016.

Oberdorster EVA. "Peptide Hormones Versus Steroid Hormones: Case Studies from Snail and Turtle Populations." *Annals of the New York Academy of Sciences* **2001**, *948*(1):75-79.

Oberdorster G, Oberdorster E, and Oberdorster J. "Nanotoxicology: An emerging discipline evolving from studies of ultrafine particles." *Environmental Health Perspectives* **2005**, *113*(7):823-839; doi:10.1289/ehp.7339.

Oblinger CJ, Gill AC, McPherson AK, Meyer MT, and Furlong ET. "Occurrence of Selected Pharmaceuticals, Personal-Care Products, Organic Wastewater Compounds, and Pesticides in the Lower Tallapoosa River Watershed near Montgomery, Alabama, 2005." Survey UG, U.S. Geological Survey Scientific Investigations Report 2007-5266, 2008. 23 pp; http://pubs.usgs.gov/sir/2007/5266/.

O'Brien E and Dietrich DR. "Hindsight rather than foresight: reality versus the EU draft guideline on pharmaceuticals in the environment." *Trends in Biotechnology* **2004**, *22*(7):326-330; doi:10.1016/j.tibtech.2004.05.003.

O'Brien PJ. "Peroxidases." *Chemico-Biological Interactions* **2000**, *129*(1-2):113-139; doi:10.1016/S0009-2797(00)00201-5.

Obst U, Schwartz T, and Volkmann H. "Antibiotic resistant pathogenic bacteria and their resistance genes in bacterial biofilms." *International Journal of Artificial Organs* **2006**, *29*(4):387-394.

Ochel H-J, Elchorn K, and Gademann G. "Geldanamycin: The prototype of a class of antitumor drugs targeting the heat shock protein 90 family of molecular chaperones." *Cell Stress & Chaperones* **2001**, *6*(2):105-112.

O'Connor GA, Elliott HA, Basta NT, Bastian RK, Pierzynski GM, Sims RC*, et al.* "Sustainable land application: an overview." *Journal of Environmental Quality* **2005**, *34*(1):7-17.

O'Connor R, O'Connor M, Irgolic K, Sabrsula J, Gürleyük H, Brunette R*, et al.* "Transformations, Air Transport, and Human Impact of Arsenic from Poultry Litter." *Environmental Forensics* **2005**, *6*(1):83 - 89; doi:10.1080/15275920590913967.

O'Connor S and Aga DS. "Analysis of tetracycline antibiotics in soil: Advances in extraction, clean-up, and quantification." *Trends in Analytical Chemistry* **2007**, *26*(6):456-465; doi:10.1016/j.trac.2007.02.007.

O'Connor S, Locke J, and Aga DS. "Addressing the challenges of tetracycline analysis in soil: extraction, clean-up, and matrix effects in LC-MS." *Journal of Environmental Monitoring* **2007**, *9*(11):1254-1262; doi:10.1039/b711731k.

O'Donohue WT and Levensky ER, Eds., "Promoting Treatment Adherence: A Practical Handbook for Health Care Providers." Sage Publications Inc, 2006, 458 pp; http://books.google.com/books?id=tmiygzmpv3QC&dq=promoting+treatment+adherence+a+practical+handbook+for+health+care+providers&psp=1&source=gbs_summary_s&cad=0.

Odráška P. "Vyzkumne centrum pro chemii zivotniho prostredi a ekotoxikologh." Doctoral Dissertation, Masarykova Univerzita, Brno, Česká republika, 2006. 90 pp; http://is.muni.cz/th/64017/prif_m/text_prace.pdf.

O'Driscoll C. "Heavyweight drugs: Swapping selected hydrogen atoms for deuterium could be a fast route to making safer, longer lasting drugs." *Chemistry and Industry* **2009**:24-26.

ODS (NIH Office of Dietary Supplements) "The International Bibliographic Information on Dietary Supplements (IBIDS) database." 1999; http://ods.od.nih.gov/databases/ibids.html.

OECD. "OECD Guideline for testing of chemicals 201. Ready Biodegradability." 1992.

OECD. "OECD Guideline for the testing of chemicals 106. Adsorption - desorption using a batch equilibrium method." 2000.

OECD. "Caffeine. SIDS Initial assessment rep9ort for SIAM 13." Bern, Switzerland, 2001.

OECD. "OECD Guideline for the testing of chemicals 303. Simulation test - aerobic sewage treatment." 2001.

OECD. "Theophylline. SIDS Initial assessment report for SIAM 13." Bern, Switzerland, 2001.

OECD. "OECD Guideline for the testing of chemicals. Draft proposal for a new guideline 4XX: The stably transfected human estrogen receptor-α transcriptional activation assay for detection of estrogenic agonist-activity of chemicals." 5 June, 2008, 24 pp; https://www.oecd.org/dataoecd/0/51/40787614.pdf.

OECD. "Series on Testing and Assessment / Adopted Guidance and Review Documents." Organisation for Economic Co-operation and Development, 2009, http://www.oecd.org/document/30/0,3343,en_2649_34377_1916638_1_1_1_1,00.html.

OECD "ChemPortal: The Global Portal to Information on Chemical Substances." 2009; http://webnet3.oecd.org/eChemPortal/Home.aspx.

Oehlmann J, Di Benedetto P, Tillmann M, Duft M, Oetken M, and Schulte-Oehlmann U. "Endocrine disruption in prosobranch molluscs: evidence and ecological relevance." *Ecotoxicology* **2007**, *16*(1):29-43; doi:10.1007/s10646-006-0109-x.

Oesterheld J, Osser DN, and Sandson NB "P450, UGT and P-gp Drug Interactions: GeneMedRx Drug Interactions Computer Program." 2009; http://www.mhc.com//Cytochromes/.

Oetken M, Nentwig G, Loffler D, Ternes T, and Oehlmann J. "Effects of pharmaceuticals on aquatic invertebrates. Part I. The antiepileptic drug carbamazepine." *Archives of Environmental Contamination and Toxicology* **2005**, *49*(3):353-361; doi:10.1007/s00244-004-0211-0.

Ofomaja A. "Sorptive removal of Methylene blue from aqueous solution using palm kernel fibre: Effect of fibre dose." *Biochemical Engineering Journal* **2008**, *40*(1):8-18; doi:10.1016/j.bej.2007.11.028.

Ogata T and Terakado Y. "Rare earth element abundances in some seawaters and related river waters from the Osaka Bay area, Japan: Significance of anthropogenic Gd." *Geochemical Journal* **2006**, *40*(5):463-474; doi:10.2343/geochemj.40.463.

Ogbonna DN, Sokari TG, and Amaku GE. "Antibiogram of bacterial flora of tilapia zilli from creeks around Port Harcourt, Nigeria." *Environmental Science & Technology* **2008**, *1*(1):27-33.

O'Grady D. "Biodegradation of 17α-ethinylestradiol in Wastewater." Masters Dissertation, McGill University, Montreal, Quebec, Canada, 2007. 67 pp; http://digitool.library.mcgill.ca/webclient/StreamGate?folder_id=0&dvs=1253566809018~226.

O'Grady D, Evangelista S, and Yargeau V. "Removal of Aqueous 17α-Ethinylestradiol by Rhodococcus Species." *Environmental Engineering Science* **2009**, *26*(9):1393-1400; doi:10.1089/ees.2008.0272.

Ögün E, Atalan E, and Özdemir K. "Some pollution parameters in water samples from Lake Van, Turkey." *Fresenius Environmental Bulletin* **2005**, *14*:1031-1035.

Ogunseitan OA. "Caffeine-inducible enzyme activity in Pseudomonas putida ATCC 700097." *World Journal of Microbiology and Biotechnology* **2002**, *18*(5):423-428; doi:10.1023/A:1015583316426.

Oh BS, Jang HY, Hwang TM, and Kang J-W. "Role of ozone for reducing fouling due to pharmaceuticals in MF (microfiltration) process." *Journal of Membrane Science* **2007**, *289*(1-2):178-186; doi:10.1016/j.memsci.2006.11.052.

Oh EK, Ban E, Woo JS, and Kim CK. "Analysis of carbamazepine and its active metabolite, carbamazepine-10,11-epoxide, in human

plasma using high-performance liquid chromatography." *Analytical and Bioanalytical Chemistry* **2006**, *386*(6):1931-1936; doi:10.1007/s00216-006-0724-7.

Oh SJ, Park J, Lee MJ, Park SY, Lee J-H, and Choi K. "Ecological hazard assessment of major veterinary benzimidazoles: acute and chronic toxicities to aquatic microbes and invertebrates." *Environmental Toxicology and Chemistry* **2006**, *25*(8):2221-2226; doi:10.1897/05-493R.1.

Oh SM, Kim HR, Park HK, Choi K, Shin HS, Park J-S*, et al.* "Identification of estrogen-like effects and biologically active compounds in river water using bioassays and chemical analysis." *Science of the Total Environment* **2009**, *407*(21):5787-5794; doi:10.1016/j.scitotenv.2009.06.010.

Ohe T, Watanabe T, and Wakabayashi K. "Mutagens in surface waters: a review." *Mutation Research/Reviews in Mutation Research* **2004**, *567*(2-3):109-149; doi:10.1016/j.mrrev.2004.08.003.

Ohkubo N, Mochida K, Adachi S, Hara A, Hotta K, Nakamura Y*, et al.* "Estrogenic activity in coastal areas around Japan evaluated by measuring male serum vitellogenins in Japanese common goby Acanthogobius flavimanus." *Fisheries Science* **2003**, *69*(6):1135-1145; doi:10.1111/j.0919-9268.2003.00738.x.

Ohlsen K, Ternes T, Werner G, Wallner U, Loffler D, Ziebuhr W*, et al.* "Impact of antibiotics on conjugational resistance gene transfer in Staphylococcus aureus in sewage." *Environmental Microbiology* **2003**, *5*(8):711-716; doi:10.1046/j.1462-2920.2003.00459.x.

Ohtani H, Miura I, and Ichikawa Y. "Effects of dibutyl phthalate as an environmental endocrine disruptor on gonadal sex differentiation of genetic males of the frog Rana rugosa." *Environmental Health Perspectives* **2000**, *108*(12):1189-1193.

Oishi S. "Lack of spermatotoxic effects of methyl and ethyl esters of ρ-hydroxybenzoic acid in rats." *Food and Chemical Toxicology* **2004**, *42*(11):1845-1849; doi:10.1016/j.fct.2004.06.015.

Oka H, Ikai Y, Kawamura N, Yamada M, Harada K, Ito S*, et al.* "Photodecomposition products of tetracycline in aqueous solution." *Journal of Agricultural and Food Chemistry* **1989**, *37*(1):226-231; doi:10.1021/jf00085a052.

Oka H, Ito Y, and Matsumoto H. "Chromatographic analysis of tetracycline antibiotics in foods." *Journal of Chromatography A* **2000**, *882*(1-2):109-133.

O'Keefe P. "Monitoring pharmaceuticals and personal care products in the aquatic environment." in 4th International Conference on Pharmaceuticals and Endocrine Disrupting Chemicals in Water, Minneapolis, MN, 13-15 October, 2004, 21 pp; http://www.umass.edu/tei/wrrc/WRRC2004/Conference2009/PDF/O'Keefe.pdf.

Okeke C, Bailey L, Medwick T, and Grady L. "Revised USP standards for product dating, packaging, and temperature monitoring." *American Journal of Health-System Pharmacy* **2000**, *57*(15):1441-1445.

Okeke CC, "Current USP requirements and proposals on packaging systems." *American Pharmaceutical Outsourcing*, 2002, 3 2: 34-38 pp; http://www.pharmxpert.co.kr/pharm/data/GMP/ViewContent.asp?page=1&PID=5&T=Test.

Oktem YA, Ince O, Sallis P, Donnelly T, and Ince BK. "Anaerobic treatment of a chemical synthesis-based pharmaceutical wastewater in a hybrid upflow anaerobic sludge blanket reactor." *Bioresource Technology* **2008**, *99*(5):1089-1096; doi:10.1016/j.biortech.2007.02.036.

Okuda T, Yamashita N, Tanaka H, Matsukawa H, and Tanabe K. "Development of extraction method of pharmaceuticals and their occurrences found in Japanese wastewater treatment plants." *Environment International* **2009**, *35*(5):815-820; doi:10.1016/j.envint.2009.01.006.

Okumura T and Nishikawa Y. "Gas chromatography--mass spectrometry determination of triclosans in water, sediment and fish samples via methylation with diazomethane." *Analytica Chimica Acta* **1996**, *325*(3):175-184; doi:10.1016/0003-2670(96)00027-X.

Olejniczak K and Spindler P. "Environmental risk assessment of medicinal products for human use: Aspects of its regulations in the European Union, Canada and United States." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 21, pp 269-287.

Oleksy-Frenzel J, Wischnack S, and Jekel M. "Bestimmung der organischen Gruppenparameter AOCl, AOBr and AOI in Kommunalabwasser [Determination of organic group parameters AOCl, AOBr and AOI in municipal waste water]." *Vom Wasser* **1995**, *85*:59-67.

Oleszczuk P, Pan B, and Xing B. "Adsorption and Desorption of Oxytetracycline and Carbamazepine by Multiwalled Carbon Nanotubes." *Environmental Science & Technology* **2009**, *In press*; doi:10.1021/es901928q.

Öllers S, Singer HP, Fässler P, and Müller RS. "Simultaneous quantification of neutral and acidic pharmaceuticals and pesticides at the low – ng/L level in surface and waste water." *Journal of Chromatography A* **2001**, *911*(2):225-234; doi:10.1016/S0021-9673(01)00514-3.

Olney JW, Farber NB, Wozniak DF, Jevtovic-Todorovic V, and Ikonomidou C. "Environmental agents that have the potential to trigger massive apoptotic neurodegeneration in the developing brain." *Environmental Health Perspectives* **2000**, *108*(Suppl 3):383-388.

Olsen B and Bergström S. "Läkaren har ett ekologiskt ansvar (The doctor has an environmental responsibility)." *Lakartidningen* **1997**, *94*:2010-2011.

Olson KR. "Poisoning & Drug Overdose, 5th Edition." San Francisco, CA, The McGraw-Hill Companies, 2006, 736 pp; http://www.accessmedicine.com/resourceTOC.aspx?resourceID=91.

Olsson C. "Hållbar läkemedelsanvändning [Unsustainable health – driving forces and impediments to sustainable pharmaceutical use]." Malmö högskola/Teknik och samhälle, Malmö, Sweden, 2007. 82 pp; http://hdl.handle.net/2043/4617.

Oltvai ZN and Barabási A-L. "Systems Biology: Life's complexity pyramid." *Science* **2002**, *298*(5594):763-764; doi:10.1126/science.1078563.

Önal Y, Akmil-Basar C, and SarIcI-Özdemir Ç. "Elucidation of the naproxen sodium adsorption onto activated carbon prepared from waste apricot: Kinetic, equilibrium and thermodynamic characterization." *Journal of Hazardous Materials* **2007**, *148*(3):727-734; doi:10.1016/j.jhazmat.2007.03.037.

Onan LJ and LaPara TM. "Tylosin-resistant bacteria cultivated from agricultural soil." *FEMS Microbiology Ecology* **2003**, *220*(1):15-20; doi:10.1016/S0378-1097(03)00045-4.

Onda K, Nakamura Y, Takatoh C, Miya A, and Katsu Y. "The behavior of estrogenic substances in the biological treatment process of sewage." *Water Science and Technology* **2003**, *47*(9):109-116.

ONDCP "Proper disposal of prescription drugs: Federal Guidelines." Web Page maintained by White House Office of National Drug Control Policy (15 January 2009); 2007, http://www.whitehousedrugpolicy.gov/drugfact/factsht/proper_disposal.html, http://www.whitehousedrugpolicy.gov/drugfact/disposal.mov}.

ONDCP. "Proper disposal of prescription drugs." Washington, DC, White House Office of National Drug Control Policy, 2009 (updated October). http://www.whitehousedrugpolicy.gov/publications/pdf/prescrip_disposal.pdf.

Onesios K, Yu J, and Bouwer E. "Biodegradation and removal of pharmaceuticals and personal care products in treatment systems: a review." *Biodegradation* **2009**, *20*(4):441-466; doi:10.1007/s10532-008-9237-8.

Ong SK, Lertpaitoonpan W, Bhandari A, and Limpiyakorn T. "Antimicrobials and Antibiotics." in *Contaminats of Emerging Environmental Concern*, Bhandari A, Surampalli RY, Adams CD, Champagne P, Ong SK, Tyagi RD and Zhang TC, Eds., American Society of Civil Engineers; Reston, Virginia, 2008, Chapter pp 141-185; http://books.google.com/books?id=1G7D2d99orkC&source=gbs_navlinks_s.

Ongerth JE and Khan S. "Drug residuals: How xenobiotics can affect water supply sources." *Journal of the American Water Works Association* **2004**, *96*(5):94-101.

Onnis-Hayden A, Weng H, He M, Hansen S, Ilyin V, Lewis K*, et al.* "Prokaryotic Real-Time Gene Expression Profiling for Toxicity Assessment." *Environmental Science & Technology* **2009**, *43*(12):4574-4581; doi:10.1021/es803227z.

Oppel J, Broll G, Loffler D, Meller M, Rombke J, and Ternes T. "Leaching behaviour of pharmaceuticals in soil-testing-systems: a part of an environmental risk assessment for groundwater protection." *Science of the Total Environment* **2004**, *328*(1-3):265-273; doi:10.1016/j.scitotenv.2004.02.004.

Oppel J, Broll G, Loffler D, Meller M, Rombke J, and Ternes T. "Corrigendum to 'Leaching behaviour of pharmaceuticals in soil-testing-systems: a part of an environmental risk assessment for groundwater protection' [Sci. Total Environ. 328 (2004) 265-273]." *Science of the Total Environment* **2005**, *336*(1-3):285; doi:10.1016/j.scitotenv.2004.08.005.

Oppenheimer J and Stephenson R. "Timeout: Longer solids retention times can remove some PPCPs." *Water Environment & Technology* **2006**, *18*(12):77-82.

Oppenheimer J, Stephenson R, Burbano A, and Liu L. "Characterizing the passage of personal care products through wastewater treatment processes." *Water Environment Research* **2007**, *79*(13):2564-2577.

Oppenheimer J, Stephenson R, and Decarolis J, "Emerging Contaminants: Insights to the Most Effective EDC and PPCP Treatment Strategies." *Opflow Online*, American Water Works Association, 2008, http://www.awwa.org/publications/OpFlowArticle.cfm?itemnumber=35333.

Opperdoes FR and Michels PAM. "Enzymes of carbohydrate metabolism as potential drug targets." *International Journal for Parasitology* **2001**, *31*(5-6):481-489; doi:10.1016/S0020-7519(01)00155-2.

Oregon DEQ. 2009, "SB 737 Implementation: Addressing Priority Persistent Pollutants in Oregon's Water." Oregon Department of Environmental Quality, SB 737; 7 pp; http://www.deq.state.or.us/wq/SB737/.

Oregon DEQ. "Senate Bill 737 selection of trigger levels for oregon's priority persistent pollutants." Public Draft (13 August 2009), Oregon Department of Environmental Quality, 2009. 21 pp; http://www.deq.state.or.us/wq/sb737/docs/TriggerLevelProposal.pdf.

O'Reilly A and Smith P. "Development of methods for predicting the minimum concentrations of oxytetracycline capable of exerting a selection for resistance to this agent." *Aquaculture* **1999**, *180*(1-2):1-11; doi:10.1016/S0044-8486(99)00142-8.

O'Reilly A and Smith P. "Use of indirect conductimetry to establish predictive no effect concentrations of oxytetracycline and oxolinic acid in aquatic sediments." *Aquaculture* **2001**, *196*(1-2):13-26; doi:10.1016/S0044-8486(00)00569-X.

Orey M. "Cottage industry finds a niche in expired drugs." The Wall Street Journal.

Oriani JA. "U.S. Food and Drug Administration's Perspective on Aquaculture Drug Residues." in *Xenobiotics in Fish*, Smith DJ, Gingerich WH and Beconi-Barker MG, Eds., Kluwer Academic/Plenum Publishers; New York, 1999, Chapter 2, pp 15-24; http://bookshop.blackwell.co.uk/jsp/id/Xenobiotics_in_Fish/9780306461897#synopsis.

Orlando EF. "Fate and consequences of waste-associated contaminants Entering the waterways." in Proceedings of the 6th Mid-Atlantic Nutrition Conference, MANC, Timonium, MD, Maryland Feed Industry Council, Department of Animal and Avian Sciences, University of Maryland, 26-27 March, 2008, 9-17 pp; http://www.manc.umd.edu/documents/Proceedings%20of%20the%206th%20Mid-Atlantic%20Nutrition%20Conerence%20-%202008.pdf#page=17.

Orlando EF, Kolok AS, Binzcik GA, Gates JL, Horton MK, Lambright CS*, et al.* "Endocrine-disrupting effects of cattle feedlot effluent on an aquatic sentinel species, the fathead minnow." *Environmental Health Perspectives* **2004**, *112*(3):353-358; doi:10.1289/ehp.6591.

Örn S. "The Zebrafish as a Model Organism for Evaluation of Endocrine Disrupters." Doctoral Dissertation, Swedish University of Agricultural Sciences, Uppsala, Sweden, 2006. 39 pp; http://diss-epsilon.slu.se/archive/00001089/01/Thesis_%C3%96rn.pdf.

Örn S, Gessbo Å, Steinholz Å, and Norrgren L. "Zebrafish (Danio rerio) - a candidate to evaluate endocrine disrupting chemicals. In Zebrafish for Testing Endocrine Disrupting Chemicals." TemaNord 2000:555, Bernan, Lanham, MD, USA, May, 2000, 47-62 pp; http://www.norden.org/pub/ebook/2000-555.pdf.

Orn S, Holbech H, Madsen TH, Norrgren L, and Petersen GI. "Gonad development and vitellogenin production in zebrafish (Danio rerio) exposed to ethinylestradiol and methyltestosterone." *Aquatic Toxicology* **2003**, *65*(4):397-411; doi:10.1016/S0166-445X(03)00177-2.

Orn S, Yamani S, and Norrgren L. "Comparison of Vitellogenin Induction, Sex Ratio, and Gonad Morphology Between Zebrafish and Japanese Medaka After Exposure to 17α-Ethinylestradiol and 17β-Trenbolone." *Archives of Environmental Contamination and Toxicology* **2006**, *51*(2):237-243; doi:10.1007/s00244-005-0103-y.

Oros DR. "Identification and Evaluation of Previously Unknown Organic Contaminants in the San Francisco Estuary (1999-2001)." San Francisco Estuary Institute, Oakland, CA, April, 2003, 61 pp; http://www.sfei.org/rmp/reports/unidentified_contaminants/previously_unknown_0403.pdf.

Oros DR and David N. "Identification and evaluation of unidentified organic contaminants in the San Francisco Estuary." San

Francisco Estuary Institute, RMP Technical Report: SFEI Contribution 45, Oakland, CA, August, 2002, 111 pp; http://www.sfei.org/rmp/reports/unidentified_contaminants/unidentifiedcont.pdf.

Oros DR, Jarman WM, Lowe T, David N, Lowe S, and Davis JA. "Surveillance for previously unmonitored organic contaminants in the San Francisco Estuary." *Marine Pollution Bulletin* **2003**, *46*(9):1102-1110; doi:10.1016/S0025-326X(03)00248-0.

O'Rourke K. "Euthanatized animals can poison wildlife: Veterinarians receives fines." *Journal of the American Veterinary Medical Association* **2002**, *220*(2):168-218.

Orprecio R and Evans CH. "Polymer-immobilized cyclodextrin trapping of model organic pollutants in flowing water streams." *Journal of Applied Polymer Science* **2003**, *90*(8):2103-2110; doi:10.1002/app.12818.

Ort C, Hollender J, Schaerer M, and Siegrist H. "Model-Based Evaluation of Reduction Strategies for Micropollutants from Wastewater Treatment Plants in Complex River Networks." *Environmental Science & Technology* **2009**, *43*(9):3214-3220; doi:10.1021/es802286v.

Ort C, Lawrence MG, Reungoat J, Eaglesham G, Carter S, and Keller J. "Determining the fraction of pharmaceutical residues in wastewater originating from a hospital." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.08.002.

Ort C, Schaffner C, Giger W, and Gujer W. "Modeling stochastic load variations in sewer systems." *Water Science and Technology* **2005**, *52*(5):113-122.

Ortega C, Gimeno O, Blanc V, Cortes P, Ania S, and Llagostera M. "Antibiotic susceptibility of strains of Aeromonas salmonicida isolated from Spanish salmonids." *Revue de medecine veterinaire* **2006**, *157*:410-414.

Ortelli D, Cognard E, Jan P, and Edder P. "Comprehensive fast multiresidue screening of 150 veterinary drugs in milk by ultra-performance liquid chromatography coupled to time of flight mass spectrometry." *Journal of Chromatography B* **2009**, *877*(23):2363-2374; doi:10.1016/j.jchromb.2009.03.006.

Ortiz-Zarragoitia M and Cajaraville MP. "Effects of selected xenoestrogens on liver peroxisomes, vitellogenin levels and spermatogenic cell proliferation in male zebrafish." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2005**, *141*(2):133-144; doi:10.1016/j.cca.2005.05.010.

Ortiz-Zarragoitia M, Trant JM, and Cajaraville MP. "Effects of dibutylphthalate and ethynylestradiol on liver peroxisomes, reproduction, and development of zebrafish (Danio rerio)." *Environmental Toxicology and Chemistry* **2006**, *25*(9):2394-2404; doi:10.1897/05-456R.1.

Orvos DR, Versteeg DJ, Inauen J, Capdevielle M, Rothenstein A, and Cunningham V. "Aquatic toxicity of triclosan." *Environmental Toxicology and Chemistry* **2002**, *21*(7):1338-1349; doi:10.1897/1551-5028(2002)021<1338:ATOT>2.0.CO;2.

Osborne N, Sherry J, Rendell JL, and Currie S. "The role of hsp90 in 17α-ethynylestradiol-induced endocrine disruption in rainbow trout hepatocytes." *Ecotoxicology and Environmental Safety* **2007**, *68*(1):13-19; doi:10.1016/j.ecoenv.2006.12.002.

Osemwengie LI. "Levels of Synthetic Musks in Municipal Wastewater for Estimating Biota Exposure in Receiving Waters." Doctoral Dissertation, University of Nevada Las Vegas, Las Vegas, NV, 2002. 162 pp.

Osemwengie LI. "Determination of synthetic musk compounds in sewage biosolids by gas chromatography/mass spectrometry." *Journal of Environmental Monitoring* **2006**, *8*(9):897-903; doi:10.1039/b603113g.

Osemwengie LI and Gerstenberger SL. "Levels of synthetic musk compounds in municipal wastewater for potential estimation of biota exposure in receiving waters." *Journal of Environmental Monitoring* **2004**, *6*(6):533-539; doi:10.1039/b400514g.

Osemwengie LI and Steinberg S. "On-site solid-phase extraction and laboratory analysis of ultra-trace synthetic musks in municipal sewage effluent using gas chromatography-mass spectrometry in the full-scan mode." *Journal of Chromatography A* **2001**, *932*(1-2):107-118; doi:10.1016/S0021-9673(01)01216-X.

Osemwengie LI and Steinberg S. "Closed-loop stripping analysis of synthetic musk compounds from fish tissues with measurement by gas chromatography-mass spectrometry with selected-ion monitoring." *Journal of Chromatography A* **2003**, *993*(1-2):1-15; doi:10.1016/S0021-9673(03)00034-7.

Osenbruck K, Glaser H-R, Knoller K, Weise SM, Moder M, Wennrich R, *et al.* "Sources and transport of selected organic micropollutants in urban groundwater underlying the city of Halle (Saale), Germany." *Water Research* **2007**, *41*(15):3259-3270;

doi:10.1016/j.watres.2007.05.014.

Osenga W. "Antibiotics in the environment." 2004, 12 pp; http://courses.washington.edu/uwtjoe/issues/2004_02/2004_01_06.pdf.

OSPAR. "OSPAR List of Chemicals for Priority Action (Update 2007)." Convention for the Protection of the Marine Environment of the North-east Atlantic, OSPAR Commission on Hazardous Substances, 2007, http://www.ospar.org/documents/dbase/decrecs/agreements/04-12e_List%20of%20Chemicals%20for%20Priority%20action.doc.

OSPAR Commission. "Musk xylene and other musks." in OSPAR Background Document - Hazardous Substances Series, 2004, www.ospar.org/eng/html/welcome.html.

Osterberg D and Wallinga D. "Addressing externalities from swine production to reduce public health and environmental impacts." *American Journal of Public Health* **2004**, *94*(10):1703-1708.

OSU. "Presciption medicines & nursing homes: A problem ... a solution." Oklahoma State University, Center for Health Policy Research, Ed., Tulsa, OK, September, 2000, 6 pp.

OSU. "Prescription medicines & nursing homes: Laws - letters - reports - policies." Oklahoma State University, Center for Health Policy Research, Ed., Tulsa, OK, September, 2000, 8 pp.

OSU. "A 50 state survey: Prescription drug re-use policies." Oklahoma State University, Center for Health Policy Research, Ed., Tulsa, OK, April, 2001, 4 pp.

Oszlanczi A, Bota A, and Klumpp E. "Layer formations in the bacteria membrane mimetic DPPE-DPPG/water system induced by sulfadiazine." *Biophysical Chemistry* **2007**, *125*(2-3):334-340; doi:10.1016/j.bpc.2006.09.008.

Otero M, Zabkova M, Grande CA, and Rodrigues AE. "Fixed-bed adsorption of salicylic acid onto polymeric adsorbents and activated charcoal." *Industrial and Engineering Chemistry Research* **2005**, *44*(4):927-936; doi:10.1021/ie049227j.

Otero M, Zabkova M, and Rodrigues AE. "Comparative study of the adsorption of phenol and salicylic acid from aqueous solution onto nonionic polymeric resins." *Separation and Purification Technology* **2005**, *45*(2):86-95; doi:10.1016/j.seppur.2005.02.011.

Ötker HM and Akmehmet-Balcioglu I. "Adsorption and degradation of enrofloxacin, a veterinary antibiotic on natural zeolite." *Journal of Hazardous Materials* **2005**, *122*(3):251-258; doi:10.1016/j.jhazmat.2005.03.005.

O'Toole S and Metcalfe C. "Synthetic musks in fish from urbanized areas of the Lower Great Lakes, Canada." *Journal of Great Lakes Research* **2006**, *32*(2):361-369; doi:10.3394/0380-1330(2006)32[361:SMIFFU]2.0.CO;2.

Otterpohl R. "Options for alternative types of sewerage and treatment systems directed to improvement of the overall performance." *Water Science and Technology* **2002**, *45*(3):149-158.

Outten CE and O'Halloran TV. "Femtomolar sensitivity of metalloregulatory proteins controlling zinc homeostasis." *Science* **2001**, *292*(5526):2488-2492; doi:10.1126/science.1060331.

Ouyang Z, Noll RJ, and Cooks RG. "Handheld Miniature Ion Trap Mass Spectrometers." *Analytical Chemistry* **2009**, *81*(7):2421-2425; doi:10.1021/ac900292w.

Overcash M, Sims RC, Sims JL, and Nieman JKC. "Beneficial reuse and sustainability: The fate of organic compounds in land-applied waste." *Journal of Environmental Quality* **2005**, *34*:29-41.

Overington JP, Al Lazikani B, and Hopkins AL. "The molecular pharmacopoeia: The human targets of FDA-approved oral drugs." Poster presentation, http://www.nature.com/focus/molecularpharmacopoeia/posters/molecularpharmacopoeia_poster.pdf.

Overington JP, Al-Lazikani B, and Hopkins AL. "How many drug targets are there?" *Nature Reviews Drug Discovery* **2006**, *5*(12):993-996; doi:10.1038/nrd2199.

Oviedo-Gómez DGC, Galar-Martínez M, García-Medina S, Razo-Estrada C, and Gómez-Oliván LM. "Diclofenac-enriched artificial sediment induces oxidative stress in Hyalella azteca." *Environmental Toxicology and Pharmacology* **2009**, *In Press*; doi:10.1016/j.etap.2009.09.004.

Owen SF, Giltrow E, Huggett DB, Hutchinson TH, Saye J, Winter JJ*, et al.* "Comparative physiology, pharmacology and toxicology of β-blockers: Mammals versus fish." *Aquatic Toxicology* **2007**, *82*(3):145-162; doi:10.1016/j.aquatox.2007.02.007.

Owen SF, Huggett DB, Hutchinson TH, Hetheridge MJ, Kinter LB, Ericson JF*, et al.* "Uptake of propranolol, a cardiovascular pharmaceutical, from water into fish plasma and its effects on growth and organ biometry." *Aquatic Toxicology* **2009**, *93*(4):217-224; doi:10.1016/j.aquatox.2009.05.009.

Owens RC, Jr. "Antimicrobial stewardship: concepts and strategies in the 21st century." *Diagnostic Microbiology and Infectious Disease* **2008**, *61*(1):110-128; doi:10.1016/j.diagmicrobio.2008.02.012.

Owens RC, Jr. and Ambrose PG. "Antimicrobial stewardship and the role of pharmacokinetics-pharmacodynamics in the modern antibiotic era." *Diagnostic Microbiology and Infectious Disease* **2007**, *57*(3 Suppl):77S-83S; doi:10.1016/j.diagmicrobio.2006.12.012.

Oxley DV. "Putting a Value on Drug Waste (letter)." *The Pharmaceutical Journal* **1996**, *256*.

Ozaki H, Ikejima N, Shimizu Y, Fukami K, Taniguchi S, Takanami R*, et al.* "Rejection of pharmaceuticals and personal care products (PPCPs) and endocrine disrupting chemicals (EDCs) by low pressure reverse osmosis membranes." *Water Science and Technology* **2008**, *58*(1):73-81; doi:10.2166/wst.2008.607.

Ozanne-Smith J, Day L, Parsons B, Tibballs J, and Dobbin M. "Childhood poisoning: Access and prevention." *Journal of Paediatrics and Child Health* **2001**, *37*(3):262-265; doi:10.1046/j.1440-1754.2001.00654.x.

Ozcan B, Cokmus C, Coleri A, and Caliskan M. "Characterization of extremely halophilic Archaea isolated from saline environment in different parts of Turkey." *Microbiology* **2006**, *75*(6):739-746; doi:10.1134/S002626170606018X.

P^2D^2 "Prescription Pill and Drug Disposal Program Network." 2009, http://www.p2d2program.org/.

Paasivirta J, Sinkkonen S, Rantalainen AL, Broman D, and Zebuhr Y. "Temperature dependent properties of environmentally important synthetic musks." *Environmental Science and Pollution Research* **2002**, *9*(5):345-355; doi:10.1007/BF02987579.

Pachura-Bouchet S, Blaise C, and Vasseur P. "Toxicity of nonylphenol on the cnidarian Hydra attenuata and environmental risk assessment." *Environmental Toxicology* **2006**, *21*(4):388-394; doi:10.1002/tox.20201.

Packer JL, Latch DE, McNeill K, and Arnold WA. "Photochemical fate of pharmaceuticals in the environment: Naproxen, ibuprofen, diclofenac and clofibric acid." *Abstracts of Papers - American Chemical Society* **2003**, *225*(1 March): U832.

Packer JL, Werner JJ, Latch DE, McNeill K, and Arnold WA. "Photochemical fate of pharmaceuticals in the environment: Naproxen, diclofenac, clofibric acid, and ibuprofen." *Aquatic Sciences* **2003**, *65*(4):342-351; doi:10.1007/s00027-003-0671-8.

Paffoni C, Welte B, Gousailles M, and Montiel A. "New molecules involved by the European directives: From wastewater to drinking water treatment plants [Nouvelles molecules mises en cause par les directives européennnes: De la station d'épuration à l'usine de traitement d'eau potable]." *J Européen d'Hydrologie [European journal of water quality]* **2006**, *37*(1):21-38.

Pai MP, Graci DM, and Bertino JS. "Waste generation of drug product samples versus prescriptions obtained through pharmacy dispensing." *Pharmacotherapy* **2000**, *20*(5):593-595; doi:10.1592/phco.20.6.593.35155.

Pailler F-M. "The pharmaceutical industry and the impact of drugs on the environment." *Environment, Risques & Sante* **2006**, *5*(4):311-314.

Pailler JY, Krein A, Pfister L, Hoffmann L, and Guignard C. "Solid phase extraction coupled to liquid chromatography-tandem mass spectrometry analysis of sulfonamides, tetracyclines, analgesics and hormones in surface water and wastewater in Luxembourg." *Science of the Total Environment* **2009**, *407*(16):4736-4743; doi:10.1016/j.scitotenv.2009.04.042.

Pailler J-Y, Guignard C, Meyer B, Iffly J-F, Pfister L, Hoffmann L*, et al.* "Behaviour and Fluxes of Dissolved Antibiotics, Analgesics and Hormones During Flood Events in a Small Heterogeneous Catchment in the Grand Duchy of Luxembourg." *Water, Air, & Soil Pollution* **2009**, *203*(1-4):79-98; doi:10.1007/s11270-009-9993-z.

Painter MM, Buerkley MA, Julius ML, Vajda AM, Norris DO, Barber LB*, et al.* "Antidepressants at Environmentally Relevant Concentrations Affect Predator Avoidance Behavior of Larval Fathead Minnows (Pimephales promelas)." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2677-2684; doi:10.1897/08-556.1.

Pait AS, Warner RA, Hartwell SI, Nelson JO, Pacheco PA, and Mason AL. "Human use pharmaceuticals in the estuarine environment: A survey of the Chesapeake Bay, Biscayne Bay, and Gulf of the Farallones." *NOAA Technical Memorandum* **2006**, *NOS NCCOS 7*.

Paixao TRLC, Camargo Matos R, and Bertotti M. "Diffusion layer titration of dipyrone in pharmaceuticals at a dual-band electrochemical cell." *Talanta* **2003**, *61*(5):725-732; doi:10.1016/S0039-9140(03)00334-5.

Paje MLF, Kuhlicke U, Winkler M, and Neu TR. "Inhibition of lotic biofilms by diclofenac." *Applied Microbiology and Biotechnology* **2002**, *59*(4-5):488-492; doi:10.1007/s00253-002-1042-4.

Pak K. "Biomedicine: A wonder drug?" *Science* **2000**, *290*(5498):1857.

Palace VP, Evans RE, Wautier K, Baron C, Van den byllardt L, Vandersteen W*, et al.* "Induction of vitellogenin and histological effects in wild fathead minnows from a lake experimentally treated with the synthetic estrogen, ethynylestradiol." *Water Quality Research Journal of Canada* **2002**, *37*(3):637-650.

Palace VP, Evans RE, Wautier K, Baron CL, Werner J, Klaverkamp JF*, et al.* "Altered distribution of lipid-soluble antioxidant vitamins in juvenile sturgeon exposed to waterborne ethynylestradiol." *Environmental Toxicology and Chemistry* **2001**, *20*(10):2370-2376; doi:10.1897/1551-5028(2001)020<2370:ADOLSA>2.0.CO;2.

Palace VP, Wautier KG, Evans RE, Blanchfield PJ, Mills KH, Chalanchuk SM*, et al.* "Biochemical and histopathological effects in pearl dace (Margariscus margarita) chronically exposed to a synthetic estrogen in a whole lake experiment." *Environmental Toxicology and Chemistry* **2006**, *25*(4):1114-1125; doi:10.1897/04-557R1.1.

Paladino JA. "Pharmacoeconomics of antimicrobial therapy." *American Journal of Health-System Pharmacy* **1999**, *56*(22 Suppl 3):S25-S28.

Palhares D and Grisolia CK. "Comparison between the micronucleus frequencies of kidney and gill erythrocytes in tilapia fish, following mitomycin C treatment." *Genetics and Molecular Biology* **2002**, *25*(3):281-284; doi:10.1590/S1415-47572002000300005.

Palmer PM, Wilson LR, O'Keefe P, Sheridan R, King T, and Chen C-Y. "Sources of pharmaceutical pollution in the New York City Watershed." *Science of the Total Environment* **2008**, *394*(1):90-102; doi:10.1016/j.scitotenv.2008.01.011.

Palmieri MA, Freeman C, and Kotkoskie LA. "Developmental toxicity study of Aquacoat(R) ECD ethylcellulose aqueous dispersion administered orally to rats." *Food and Chemical Toxicology* **2000**, *38*(1):71-74; doi:10.1016/S0278-6915(99)00116-7.

Palominos R, Freer J, Mondaca MA, and Mansilla HD. "Evidence for hole participation during the photocatalytic oxidation of the antibiotic flumequine." *Journal of Photochemistry and Photobiology A: Chemistry* **2008**, *193*(2-3):139-145; doi:10.1016/j.jphotochem.2007.06.017.

Pan B, Ning P, and Xing B. "Part V—sorption of pharmaceuticals and personal care products." *Environmental Science and Pollution Research* **2009**, *16*(1):106-116; doi:10.1007/s11356-008-0052-x.

Pan X, Zhang D, Chen X, Mu G, Li L, and Bao A. "Effects of levofloxacin hydrochlordie on photosystem II activity and heterogeneity of Synechocystis sp." *Chemosphere* **2009**, *77*(3):413-418; doi:10.1016/j.chemosphere.2009.06.051.

Pan X, Zhang D, Deng C, Liu C, Wang J, and Mu G. "Toxic effects of amoxicillin on the photosystem II of Synechocystis sp. characterized by a variety of in vivo chlorophyll fluorescence tests." *Aquatic Toxicology* **2008**, *89*(4):207-213; doi:10.1016/j.aquatox.2008.06.018.

Panagiotou AN, Sakkas VA, and Albanis TA. "Application of chemometric assisted dispersive liquid-liquid microextraction to the determination of personal care products in natural waters." *Analytica Chimica Acta* **2009**, *649*(2):135-140; doi:10.1016/j.aca.2009.07.028.

Panouillères M, Boillot C, and Perrodin Y. "Study of the combined effects of a peracetic acid-based disinfectant and surfactants contained in hospital effluents on Daphnia magna." *Ecotoxicology* **2007**, *16*(3):327-340; doi:10.1007/s10646-007-0136-2.

Panter GH, Hutchinson TH, Hurd KS, Bamforth J, Stanley RD, Duffell S*, et al.* "Development of chronic tests for endocrine active chemicals: Part 1. An extended fish early-life stage test for oestrogenic active chemicals in the fathead minnow (Pimephales promelas)." *Aquatic Toxicology* **2006**, *77*(3):279-290; doi:10.1016/j.aquatox.2006.01.004.

Panter GH, Hutchinson TH, Hurd KS, Sherren A, Stanley RD, and Tyler CR. "Successful detection of (anti-)androgenic and aromatase inhibitors in pre-spawning adult fathead minnows (Pimephales promelas) using easily measured endpoints of sexual development." *Aquatic Toxicology* **2004**, *70*(1):11-21; doi:10.1016/j.aquatox.2004.06.007.

Panter GH, Hutchinson TH, Lange R, Lye CM, Sumpter JP, Zerulla M*, et al.* "Utility of a juvenile fathead minnow screening assay for detecting (anti-)estrogenic substances." *Environmental Toxicology and Chemistry* **2002**, *21*(2):319-326; doi:10.1897/1551-5028(2002)021<0319:UOAJFM>2.0.CO;2.

Panter GH, Thompson RS, Beresford N, and Sumpter JP. "Transformation of a non-oestrogenic steroid metabolite to an oestrogenically active substance by minimal bacterial activity." *Chemosphere* **1999**, *38*(15):3579-3596; doi:10.1016/S0045-6535(98)00572-4.

Panter GH, Thompson RS, and Sumpter JP. "Adverse reproductive effects in male fathead minnows (Pimephales promelas) exposed to environmentally relevant concentrations of the natural oestrogens, oestradiol and oestrone." *Aquatic Toxicology* **1998**, *42*(4):243-253; doi:10.1016/S0166-445X(98)00038-1.

Panter GH, Thompson RS, and Sumpter JP. "Intermittent exposure of fish of estradiol." *Environmental Science & Technology* **2000**, *34*(13):2756-2760; doi:10.1021/es991117u.

Panusa A, Multari G, Incarnato G, and Gagliardi L. "High-performance liquid chromatography analysis of anti-inflammatory pharmaceuticals with ultraviolet and electrospray-mass spectrometry detection in suspected counterfeit homeopathic medicinal products." *Journal of Pharmaceutical and Biomedical Analysis* **2007**, *43*(4):1221-1227; doi:10.1016/j.jpba.2006.10.012.

Pao SS, Paulsen IT, and Saier MHJ. "Major facilitator superfamily." *Microbiology and Molecular Biology Reviews* **1998**, *62*(1):1-34.

Paolini M, Biagi GL, and Cantelli-Forti G. "The many consequences of chemical- and genetic-based modulation of drug metabolizing enzyme activities." *Life Sciences* **1999**, *65*(8):PL75-PL79; doi:10.1016/S0024-3205(99)00312-4.

Paone RP, Vogenberg FR, Caporello E, Rutkowski J, Parent R, and Fachetti F. "Medication Destruction and Waste Measurement and Management in Long-term Care Facilities." *The Consultant Pharmacist* **1996**, *11*:32-40.

Papa E, Fick J, Lindberg R, Johansson M, Gramatica P, and Andersson PL. "Multivariate Chemical Mapping of Antibiotics and Identification of Structurally Representative Substances." *Environmental Science & Technology* **2007**, *41*(5):1653-1661.

Papadopoulou-Mourkidou E, Patsias J, Papadakis E, and Koukourikou A. "Use of an automated on-line SPE-HPLC method to monitor caffeine and selected aniline and phenol compounds in aquatic systems of Macedonia-Thrace, Greece." *Fresenius Journal of Analytical Chemistry* **2001**, *371*(4):491-496; doi:10.1007/s002160100934.

Papapetropoulou M. "Spread of bacterial resistance to antibiotics through the aquatic environment." *Acta Microbiolica Hellenica* **1995**, *40*(6):473-479.

Paperiello C, J. "Risk assessment and risk management implications of hormesis." *Journal of Applied Toxicology* **2000**, *20*(2):147-148.

Paradisi F, Corti G, and Messeri D. "Antistaphylococcal (MSSA, MRSA, MSSE, MRSE) antibiotics." *The Medical Clinics of North America* **2001**, *85*(1):1-17; doi:10.1016/S0025-7125(05)70302-3.

Pardeshi SK and Patil AB. "Solar photocatalytic degradation of resorcinol a model endocrine disrupter in water using zinc oxide." *Journal of Hazardous Materials* **2009**, *163*(1):403-409; doi:10.1016/j.jhazmat.2008.06.111.

Parekh D, Miller MA, Borys D, Patel PR, and Levsky ME. "Transdermal Patch Medication Delivery Systems and Pediatric Poisonings, 2002-2006." *Clinical Pediatrics* **2008**, *47*(7):659-663; doi:10.1177/0009922808315211.

Pariente MI, Martínez F, Melero JA, Botas JÁ, Velegraki T, Xekoukoulotakis NP*, et al.* "Heterogeneous photo-fenton oxidation of benzoic acid in water: Effect of operating conditions, reaction by-products and coupling with biological treatment." *Applied Catalysis B: Environmental* **2008**, *85*(1-2):24-32; doi:10.1016/j.apcatb.2008.06.019.

Parisheva Z and Nusheva L. "Ozonation of aqueous solutions of salicylic acid." *Environment Protection Engineering* **2007**, *33*(1):143-150.

Park BJ and Kidd KA. "Effects of the synthetic estrogen ethinylestradiol on early life stages of mink frogs and green frogs in the wild and in situ." *Environmental Toxicology and Chemistry* **2005**, *24*(8):2027-2036; doi:10.1897/04-227R.1.

Park BK, Kitteringham NR, and O'Neill PM. "Metabolism of fluorine-containing drugs." *Annual Review of Pharmacology and Toxicology* **2001**, *41*(1):443-470; doi:10.1146/annurev.pharmtox.41.1.443.

Park C-B, Aoki J-y, Lee J-S, Nagae M, Lee Y-D, Sakakura Y*, et al.* "The effects of 17β-estradiol on various reproductive parameters in the hermaphrodite fish Kryptolebias marmoratus." *Aquatic Toxicology* **2009**, *In Press*; doi:10.1016/j.aquatox.2009.11.006.

Park ED, Lightner DV, Milner N, Mayersohn M, Park DL, Gifford JM*, et al.* "Exploratory bioavailability and pharmacokinetic studies of sulphadimethoxine and ormetoprim in the penaeid shrimp, Penaeus vannamei." *Aquaculture* **1995**, *130*(2-3):113-128; doi:10.1016/0044-8486(94)00217-C.

Park GY, Lee JH, Kim IS, and Cho J. "Pharmaceutical rejection by membranes for wastewater reclamation and reuse." *Water Science and Technology* **2004**, *50*(2):239-244.

Park H and Choung Y-K. "Degradation of Antibiotics (Tetracycline, Sulfathiazole, Ampicillin) Using Enzymes of Glutathion S-Transferase." *Human and Ecological Risk Assessment* **2007**, *13*(5):1147-1155; doi:10.1080/10807030701506223.

Park J. "An Approach for Developing Aquatic Environmental Risk Assessment Framework for Pharmaceuticals in Korea." in Yoon SS, Ed., Korea Environment Institute; Seoul, 2006, pp 1-190, 193-200; http://ref.daum.net/item/49753.

Park JW, Hong JSJ, Parajuli N, Koh HS, Park SR, Lee MO*, et al.* "Analytical Profiling of Biosynthetic Intermediates Involved in the Gentamicin Pathway of Micromonospora echinospora by High-Performance Liquid Chromatography Using Electrospray Ionization Mass Spectrometric Detection." *Analytical Chemistry* **2007**, *79*(13):4860-4869; doi:10.1021/ac070028u.

Park J-W, Tompsett AR, Zhang X, Newsted JL, Jones PD, Au DWT*, et al.* "Advanced fluorescence in situ hybridization to localize and quantify gene expression in japanese medaka (oryzias latipes) exposed to endocrine-disrupting compounds." *Environmental Toxicology and Chemistry* **2009**, *28*(9):1951-1962; doi:10.1897/08-574.1.

Park JY, Lee BC, Ra JS, Lee J, and Kim SD. "Effect of copper complexation on the estrogenic activities of endocrine-disrupting compounds using e-screen bioassay." *Environmental Toxicology and Chemistry* **2008**, *27*(3):535-541; doi:10.1897/07-316.1.

Park K, Bang HW, Park J, and Kwak I-S. "Ecotoxicological multilevel-evaluation of the effects of fenbendazole exposure to Chironomus riparius larvae." *Chemosphere* **2009**, *77*(3):359-367; doi:10.1016/j.chemosphere.2009.07.019.

Park KJ, Müller CT, Markman S, Swinscow-Hall O, Pascoe D, and Buchanan KL. "Detection of endocrine disrupting chemicals in aerial invertebrates at sewage treatment works." *Chemosphere* **2009**, *77*(11):1459-1464; doi:10.1016/j.chemosphere.2009.08.063.

Park N, Vanderford BJ, Snyder SA, Sarp S, Kim SD, and Cho J. "Effective controls of micropollutants included in wastewater effluent using constructed wetlands under anoxic condition." *Ecological Engineering* **2009**, *35*(3):418-423; doi:10.1016/j.ecoleng.2008.10.004.

Park S and Choi K. "Hazard assessment of commonly used agricultural antibiotics on aquatic ecosystems." *Ecotoxicology* **2008**, *17*(6):526-538; doi:10.1007/s10646-008-0209-x.

Parkansky N, Alterkop B, Boxman R, Mamane H, and Avisar D. "Submerged Arc Breakdown of Sulfadimethoxine (SDM) in Aqueous Solutions." *Plasma Chemistry and Plasma Processing* **2008**, *28*(5):583-592; doi:10.1007/s11090-008-9145-z.

Parker V. "Drug donations: not a dumping ground." *The Pharmaceutical Journal* **2005**, *274*(7331):12.

Parkerton TF, Arnot JA, Weisbrod AV, Russom C, Hoke RA, Woodburn K*, et al.* "Guidance for Evaluating In Vivo Fish Bioaccumulation Data." *Integrated Environmental Assessment and Management* **2008**, *4*(2):139-155; doi:10.1897/IEAM_2007-057.

Parkkonen J, Larsson DGJ, Adolfsson-Erici M, Pettersson M, Berg AH, Olsson PE*, et al.* "Contraceptive pill residues in sewage effluent are estrogenic to fish." *Marine Environmental Research* **2000**, *50*(1-5):198-198; doi:10.1016/S0141-1136(00)00181-1.

Parks LG and LeBlanc GA. "Involvement of Multiple Biotransformation Processes in the Metabolic Elimination of Testosterone by Juvenile and Adult Fathead Minnows (Pimephales promelas)." *General and Comparative Endocrinology* **1998**, *112*(1):69-79; doi:10.1006/gcen.1998.7131.

Parnas J, Flachs H, Gram L, and Wurtz-Jorgensen A. "Excretion of antiepileptic drugs in sweat." *Acta Neurologica Scandinavica* **1978**, *58*(3):197-204.

Parolini M, Binelli A, Cogni D, Riva C, and Provini A. "An in vitro biomarker approach for the evaluation of the ecotoxicity of non-steroidal anti-inflammatory drugs (NSAIDs)." *Toxicology In Vitro* **2009**, *23*(5):935-942; doi:10.1016/j.tiv.2009.04.014.

Parrott JL and Blunt BR. "Life-cycle exposure of fathead minnows (Pimephales promelas) to an ethinylestradiol concentration below

1 ng/L reduces egg fertilization success and demasculinizes males." *Environmental Toxicology* **2005**, *20*(2):131-141; doi:10.1002/tox.20087.

Parrott JL and Wood CS. "Fathead minnow lifecycle tests for detection of endocrine-disrupting substances in effluents." *Water Quality Research Journal of Canada* **2002**, *2002*(37):3.

Parsons IG. "The effects of fluoxetine on aggressive behaviors in siamese fighting fish (Bettta Splendens)." Maryville University, Maryville, TN, 2005. 30 pp; http://faculty.maryvillecollege.edu/crain/Thesis/Parsons.pdf.

Parsons M, Furuya T, Pal S, and Kessler P. "Biogenesis and function of peroxisomes and glycosomes." *Molecular and Biochemical Parasitology* **2001**, *115*(1):19-28; doi:10.1016/S0166-6851(01)00261-4.

Parsons PA. "Stress, resources, energy balances, and evolutionary change." in *Evolutionary Biol*, Hecht MK, Ed., Plenum Press; New York, 1996, 3, pp 39-72.

Paschke A, Brummer J, and Schuurmann G. "Silicone rod extraction of pharmaceuticals from water." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1417-1421; doi:10.1007/s00216-006-0986-0.

Pascoe D, Carroll K, Karntanut W, and Watts MM. "Toxicity of 17α-Ethinylestradiol and Bisphenol A to the Freshwater Cnidarian Hydra vulgaris." *Archives of Environmental Contamination and Toxicology* **2002**, *43*(1):56-63; doi:10.1007/s00244-001-0016-3.

Pascoe D, Karntanut W, and Müller CT. "Do pharmaceuticals affect freshwater invertebrates? A study with the cnidarian Hydra vulgaris." *Chemosphere* **2003**, *51*(6):521-528; doi:10.1016/S0045-6535(02)00860-3.

Pascual-Reguera MI, Ayora-Canada MJ, and Castro Ruiz MS. "Determination of piroxicam by solid-phase spectrophotometry in a continuous flow system." *European Journal of Pharmaceutical Sciences* **2002**, *15*(2):179-183; doi:10.1016/S0928-0987(01)00217-2.

Pasekova H and Polasek M. "Determination of procaine, benzocaine and tetracaine by sequential injection analysis with permanganate-induced chemiluminescence detection." *Talanta* **2000**, *52*(1):67-75; doi:10.1016/S0039-9140(99)00341-0.

Pastor-Navarro N, Brun EM, Gallego-Iglesias E, Maquieira Á, and Puchades R. "Development of immunoassays to determinate sulfamethoxazole residues in wastewaters." *Journal of Environmental Monitoring* **2009**, *11*(5):1094-1100; doi:10.1039/b818299j.

Pasut G, Guiotto A, and Veronese F. "Protein, peptide and non-peptide drug PEGylation for therapeutic application." *Expert Opinion on Therapeutic Patents* **2004**, *14*(6):859-894; doi:10.1517/13543776.14.6.859.

Paterson G and Metcalfe CD. "Uptake and depuration of the anti-depressant fluoxetine by the Japanese medaka (Oryzias latipes)." *Chemosphere* **2008**, *74*(1):125-130; doi:10.1016/j.chemosphere.2008.08.022.

Paterson JR, Baxter G, Dreyer JS, Halket JM, Flynn R, and Lawrence JR. "Salicylic Acid sans Aspirin in Animals and Man: Persistence in Fasting and Biosynthesis from Benzoic Acid." *Journal of Agricultural and Food Chemistry* **2008**, *56*(24):11648-11652; doi:10.1021/jf800974z.

Pathak SP, Bhattacherjee JW, and Ray PK. "Seasonal Variation in Survival and Antibiotic Resistance among Various Bacterial Populations in a Tropical River." *Journal of General and Applied Microbiology* **1993**, *39*(1):47-56.

Patil PA and Kothekar MA. "Development of safer molecules through chirality." *Indian Journal of Medical Sciences* **2006**, *60*(10):427-437.

Patterson AJ, Colangeli R, Spigaglia P, and Scott KP. "Distribution of specific tetracycline and erythromycin resistance genes in environmental samples assessed by macroarray detection." *Environmental Microbiology* **2007**, *9*(3):703-715; doi:10.1111/j.1462-2920.2006.01190.x.

Patterson AJ, Colangeli R, Spigaglia P, and Scott KP. "Distribution of specific tetracycline and erythromycin resistance genes in environmental samples assessed by macroarray detection." *Environmental Microbiology* **2007**, *9*(3):703-715; doi:10.1111/j.1462-2920.2006.01190.x.

Patterson BM, Shackleton M, Furness AJ, Pearce J, Descourvieres C, Linge KL*, et al.* "Fate of Nine Recycled Water Trace Organic Contaminants and Metal(loid)s during Managed Aquifer Recharge into a Anaerobic Aquifer: Column Studies." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.10.044.

Patterson DB, Brumley WC, Kelliher V, and Ferguson PL. "Application of U.S. EPA methods to the analysis of pharmaceuticals and

personal care products in the environment: Determination of clofibric acid in sewage effluent by GC-MS." *American Laboratory* **2002**, *34*:20-28.

Patterson DB, Brumley WC, Kelliher V, and Ferguson PL. "Determination of Clofibric Acid in Sewage Effluent by GC/MS: Conversion to the Methyl Ester with Trimethylsilyldiazomethane." *American Laboratory* **2002**, *34*:20-28.

Patz JA, Campbell-Lendrum D, Holloway T, and Foley JA. "Impact of regional climate change on human health." *Nature* **2005**, *438*(7066):310-317; doi:10.1038/nature04188.

Paul C, Rhind SM, Kyle CE, Scott H, McKinnell C, and Sharpe RM. "Cellular and hormonal disruption of fetal testis development in sheep reared on pasture treated with sewage sludge." *Environmental Health Perspectives* **2005**, *113*(11):1580-1587.

Paul R. "Green solutions to drug disposal blues: Health experts look at new strategies to reduce drug waste, minimize environmental impact, and limit drug diversion." *Drug Topics* **2007**, *151*(17):20-26.

Paul T, Miller PL, and Strathmann TJ. "Visible-Light-Mediated TiO_2 Photocatalysis of Fluoroquinolone Antibacterial Agents." *Environmental Science & Technology* **2007**, *41*(13):4720-4727; doi:10.1021/es070097q.

Paumen ML, Steenbergen E, Kraak MHS, Van Straalen NM, and Van Gestel CAM. "Multigeneration Exposure of the Springtail Folsomia candida to Phenanthrene: From Dose-Response Relationships to Threshold Concentrations." *Environmental Science & Technology* **2008**, *42*(18):6985-6990.

Paustenbach D and Galbraith D. "Biomonitoring: is body burden relevant to public health." *Regulatory Toxicology and Pharmacology* **2006**, *44*(3):249-261; doi:10.1016/j.yrtph.2006.01.005.

Pauwels B, Deconinck S, and Verstraete W. "Electrolytic removal of 17α-ethinylestradiol (EE2) in water streams." *Journal of Chemical Technology and Biotechnology* **2006**, *81*(8):1338-1343; doi:10.1002/jctb.1515.

Pauwels B, Ngwa FF, Deconinck S, and Verstraete W. "Effluent quality of a conventional activated sludge and a membrane bioreactor system treating hospital wastewater." *Environmental Technology* **2006**, *27*(4):395-402.

Pauwels B, Noppe H, De Brabander H, and Verstraete W. "Comparison of Steroid Hormone Concentrations in Domestic and Hospital Wastewater Treatment Plants." *Journal of Environmental Engineering* **2008**, *134*(11):933-936; doi:10.1061/(ASCE)0733-9372(2008)134:11(933).

Pauwels B and Verstraete W. "The treatment of hospital wastewater: an appraisal." *Journal of Water and Health* **2006**, *4*(4):405-416.

Pauwels B, Wille K, Noppe H, De Brabander H, Van de Wiele T, Verstraete W*, et al.* "17α-ethinylestradiol cometabolism by bacteria degrading estrone, 17β-estradiol and estriol." *Biodegradation* **2008**, *19*(5):683-693; doi:10.1007/s10532-007-9173-z.

Pavanello S and Clonfero E. "Biological indicators of genotoxic risk and metabolic polymorphisms." *Mutation Research/Reviews in Mutation Research* **2000**, *463*(3):285-308; doi:10.1016/S1383-5742(00)00051-X.

Pavlovic DM, Babic S, Horvat AJM, and Kastelan-Macan M. "Sample preparation in analysis of pharmaceuticals." *Trends in Analytical Chemistry* **2007**, *26*(11):1062-1075; doi:10.1016/j.trac.2007.09.010.

Pawelzick H. "Tierarzneimittel aus der Intensivtierhaltung als neue Umweltkontaminanten–Untersuchungen zu Eintrag und Verhalten verschiedener Antibiotika in der Umwelt mittels Hochleistungs-Flüssigkeitschromatographie-Tandemmassenspektrometrie [Veterinary drugs from intensive livestock-farming as emerging environmental contaminants - investigations of entrance routes and behaviour of different antibiotics in the environment using high performance liquid chromatography and tandem mass spectrometry." Doctoral Dissertation, 2005. 190 pp; http://deposit.ddb.de/cgi-bin/dokserv?idn=976198991&dok_var=d1&dok_ext=pdf&filename=976198991.pdf.

Pawlowski S, Ternes T, Bonerz M, Kluczka T, van der Burg B, Nau H*, et al.* "Combined in situ and in vitro assessment of the estrogenic activity of sewage and surface water samples." *Toxicological Sciences* **2003**, *75*(1):57-65; doi:10.1093/toxsci/kfg162.

Pawlowski S, Ternes TA, Bonerz M, Rastall AC, Erdinger L, and Braunbeck T. "Estrogenicity of solid phase-extracted water samples from two municipal sewage treatment plant effluents and river Rhine water using the yeast estrogen screen." *Toxicology In Vitro* **2004**, *18*(1):129-138; doi:10.1016/j.tiv.2003.08.006.

Pawlowski S, van Aerle R, Tyler CR, and Braunbeck T. "Effects of 17α-ethinylestradiol in a fathead minnow (Pimephales promelas) gonadal recrudescence assay." *Ecotoxicology and Environmental Safety* **2004**, *57*(3):330-345; doi:10.1016/j.ecoenv.2003.07.019.

Paxéus N. "Organic compounds in municipal landfill leachate." *Water Science and Technology* **2000**, *42*:323-333.

Paxéus N. "Removal of selected non-steroidal anti-inflammatory drugs (NSAIDs), gemfibrozil, carbamazepine, beta-blockers, trimethoprim and triclosan in conventional wastewater treatment plants in five EU countries and their discharge to the aquatic environment." *Water Science and Technology* **2004**, *50*(5):253-260.

Payán MR, López MÁB, Fernández-Torres R, Bernal JLP, and Mochón MC. "HPLC determination of ibuprofen, diclofenac and salicylic acid using hollow fiber-based liquid phase microextraction (HF-LPME)." *Analytica Chimica Acta* **2009**, *653*(2):184-190; doi:10.1016/j.aca.2009.09.018.

Payom W, Usanee W, Khona P, Piti T, Wibul W, and Surachat N. "Unused medications at home - reasons and costs." *International Journal of Pharmacy Practice* **2004**, *12*(3):141-148; doi:10.1211/0022357044300.

PCIFAP Pew Commission on Industrial Farm Animal Production. "Putting meat on the table: Industrial farm animal production in America." 2008, 124 pp.

PCPSA "Return expired medications." Web Page maintained by Post Consumer Pharmaceutical Stewardship Association, British Columbia 2008, http://www.medicationsreturn.ca/british_columbia_en.php.

PDR. "Physicians' Desk Reference." Thomson Healthcare, 2009, 62nd ed., 3200 pp; http://www.amazon.com/Physicians-Desk-Reference-2009-63rd/dp/1563637030/ref=sr_1_1?ie=UTF8&s=books&qid=1235415255&sr=1-1.

Peak N, Knapp CW, Yang RK, Hanfelt MM, Smith MS, Aga DS*, et al.* "Abundance of six tetracycline resistance genes in wastewater lagoons at cattle feedlots with different antibiotic use strategies." *Environmental Microbiology* **2007**, *9*(1):143-151; doi:10.1111/j.1462-2920.2006.01123.x.

Peak N, Knapp CW, Yang RK, Hanfelt MM, Smith MS, Aga DS*, et al.* "Abundance of six tetracycline resistance genes in wastewater lagoons at cattle feedlots with different antibiotic use strategies." *Environmental Microbiology* **2007**, *9*(1):143-151; doi:10.1111/j.1462-2920.2006.01123.x.

Peake BM and Braund R. "Environmental Aspects of the Disposal of Pharmaceuticals in New Zealand." *Chemistry in New Zealand* **2009**, *April*:58-63.

Pearce JN, Burns BG, van de Riet JM, Casey MD, and Potter RA. "Determination of fluoroquinolones in aquaculture products by ultra-performance liquid chromatography-tandem mass spectrometry (UPLC-MS/MS)." *Food Additives and Contaminants: Part A* **2008**, *99999*(1):1 - 8; doi:10.1080/02652030802189757.

Pearl D and Stecklow S. "Pushing pills: Drug firms' incentives to pharmacists in India fuel mounting abuse." The Wall Street Journal, 2001.

Pearson GJ. "Evolution in the practice of pharmacy--not a revolution!" *Canadian Medical Association Journal* **2007**, *176*(9):1295-1296; doi:10.1503/cmaj.070041.

Peck A, Kucklick J, and Schantz M. "Synthetic musk fragrances in environmental Standard Reference Materials." *Analytical and Bioanalytical Chemistry* **2007**, *387*(7):2381-2388; doi:10.1007/s00216-006-0671-3.

Peck AM. "Analytical methods for the determination of persistent ingredients of personal care products in environmental matrices." *Analytical and Bioanalytical Chemistry* **2006**, *386*(4):907-939; doi:10.1007/s00216-006-0728-3.

Peck AM and Hornbuckle KC. "Synthetic musk fragrances in Lake Michigan." *Environmental Science & Technology* **2004**, *38*(2):367-372; doi:10.1021/es034769y.

Peck AM and Hornbuckle KC. "Aquatic processes and systems in perspective: Environmental sources, occurrence, and effects of synthetic musk fragrances." *Journal of Environmental Monitoring* **2006**, *8*(9):874-879; doi:10.1039/b608170n.

Peck AM and Hornbuckle KC. "Synthetic musk fragrances in urban and rural air of Iowa and the Great Lakes." *Atmospheric Environment* **2006**, *40*(32):6101-6111; doi:10.1016/j.atmosenv.2006.05.058.

Peck AM and Hornbuckle KC. "Environmental sources, occurrence, and effects of synthetic musk fragrances." *Journal of Environmental Monitoring* **2006**, *8*:874-879; doi:10.1039/b608170n.

Peck AM, Linebaugh EK, and Hornbuckle KC. "Synthetic musk fragrances in Lake Erie and Lake Ontario sediment cores." *Environmental Science & Technology* **2006**, *40*(18):5629-5635; doi:10.1021/es060134y.

Peck J, Sweeney A, Gardiner J, Schantz S, Silva M, and Calafat AM. "Urinary concentrations of phthalate metabolites and associations with recent use of personal care products: An exposure assessment pilot study." *Epidemiology* **2006**, *17*(6,S):S397.

Peck M, Gibson RW, Kortenkamp A, and Hill EM. "Sediments are major sinks of steroidal estrogens in two United Kingdom rivers." *Environmental Toxicology and Chemistry* **2004**, *23*(4):945-952; doi:10.1897/03-41.

Peckenham JM. "The Use of Biosolids in Maine: A Review." Senator George J. Mitchell Center for Environmental and Watershed Research, Orono, Maine, March, 2005, 80 pp; http://www.umaine.edu/waterresearch/outreach/pdfs/WhitePaper2005.pdf.

Peckenham JM, Pinnette JR, and MacDonald G. "The Biosolids White Paper - Making Objective Science Accessible." in Moving Forward Wastewater Biosolids Sustainability: Technical, Managerial, and Public Synergy, New Brunswick, Canada, 24-27 June, 2007, http://bvsde.per.paho.org/bvsaar/cdlodos/pdf/thebiosolidswhite905.pdf.

Pedersen JA, Karthikeyan KG, and Bialk HM. "Sorption of human and veterinary antibiotics to soils." in *Natural Organic Matter and Its Significance in the Environment*, Wu F and Xing B, Eds., Science Press; Beijing, China, 2008, pp 276-299.

Pedersen JA, Soliman M, and Suffet IH. "Human Pharmaceuticals, Hormones, and Personal Care Product Ingredients in Runoff from Agricultural Fields Irrigated with Treated Wastewater." *Journal of Agricultural and Food Chemistry* **2005**, *53*(5):1625-1632; doi:10.1021/jf049228m.

Pedersen JA, Yeager MA, and Suffet IH. "Characterization and mass load estimates of organic, compounds in agricultural irrigation runoff." *Water Science and Technology* **2002**, *45*(9):103-110.

Pedersen JA, Yeager MA, and Suffet IH. "Xenobiotic organic compounds in runoff from fields irrigated with treated wastewater." *Journal of Agricultural and Food Chemistry* **2003**, *51*(5):1360-1372; doi:10.1021/jf025953q.

Pedersen S, Selck H, Salvito D, and Forbes V. "Effects of the polycyclic musk HHCB on individual- and population-level endpoints in Potamopyrgus antipodarum." *Ecotoxicology and Environmental Safety* **2009**, *72*(4):1190-1199; doi:10.1016/j.ecoenv.2008.10.012.

Pedrouzo M, Borrull F, Marcé RM, and Pocurull E. "Ultra-high-performance liquid chromatography-tandem mass spectrometry for determining the presence of eleven personal care products in surface and waste waters." *Journal of Chromatography A* **2009**, *1216*(42):6994-7000; doi:10.1016/j.chroma.2009.08.039.

Pedrouzo M, Borrull F, Maria Marcé R, and Pocurull E. "Simultaneous determination of macrolides, sulfonamides, and other pharmaceuticals in water samples by solid-phase extraction and LC-(ESI) MS." *Journal of Separation Science* **2008**, *31*(12):2182-2188; doi:10.1002/jssc.200700571.

Pedrouzo M, Borrull F, Pocurull E, and Marcé RM. "Estrogens and their conjugates: Determination in water samples by solid-phase extraction and liquid chromatography-tandem mass spectrometry." *Talanta* **2009**, *78*(4-5):1327-1331; doi:10.1016/j.talanta.2009.02.005.

Pedrouzo M, Reverté S, Borrull F, Pocurull E, and Marcé RM. "Pharmaceutical determination in surface and wastewaters using high-performance liquid chromatography-(electrospray)-mass spectrometry." *Journal of Separation Science* **2007**, *30*(3):297-303; doi:10.1002/jssc.200600269.

Peele ER, Singleton FL, Deming JW, Cavari B, and Colwell RR. "Effects of Pharmaceutical Wastes on Microbial Populations in Surface Waters at the Puerto Rico Dump Site in the Atlantic Ocean." *Applied and Environmental Microbiology* **1981**, *41*(4):873-879.

Peeler KA. "Caffeine as an Anthropogenic Source Indicator in Freshwater and Marine Systems." Masters Dissertation, Florida State University, 2004. 146 pp; http://etd.lib.fsu.edu/theses/available/etd-11032004-131319/.

Peeler KA, Opsahl SP, and Chanton JP. "Tracking anthropogenic inputs using caffeine, indicator bacteria, and nutrients in rural freshwater and urban marine systems." *Environmental Science & Technology* **2006**, *40*(24):7616-7622; doi:10.1021/es061213c.

Pehlivanoglu-Mantas E and Sedlak DL. "The fate of wastewater-derived NDMA precursors in the aquatic environment." *Water Research* **2006**, *40*(6):1287-1293; doi:10.1016/j.watres.2006.01.012.

Pei R, Kim S-C, Carlson KH, and Pruden A. "Effect of River Landscape on the sediment concentrations of antibiotics and corresponding antibiotic resistance genes (ARG)." *Water Research* **2006**, *40*(12):2427-2435; doi:10.1016/j.watres.2006.04.017.

Pei RT, Cha J, Carlson KH, and Pruden A. "Response of antibiotic resistance genes (ARG) to biological treatment in dairy lagoon water." *Environmental Science & Technology* **2007**, *41*(14):5108-5113; doi:10.1021/es070051x.

Pekas SS and Subasic D. "Pharmaceutical Waste Disposal in Croatia." Defence Technical Information Center DTIC, Springfield, VA, 2001. http://stinet.dtic.mil/oai/oai?&verb=getRecord&metadataPrefix=html&identifier=ADP013438.

Pellaumail K, "Reaching retailers." *Chemistry Today*, September, 2004, 22 6: 48-51 pp; http://www.teknoscienze.com/testata.asp?id_testata=51.

Pelley J. "Estrogen knocks out fish in whole-lake experiment." *Environmental Science & Technology* **2003**, *17*:313A-314A.

Pelley J. "Microbes alter estrogenic power of surfactant breakdown products." *Environmental Science & Technology* **2008**, *42*(17):6309; doi:10.1021/es801976u.

Pena A, Chmielova D, Lino CM, and Solich P. "Determination of fluoroquinolone antibiotics in surface waters from Mondego River by high performance liquid chromatography using a monolithic column." *Journal of Separation Science* **2007**, *30*(17):2924-2928; doi:10.1002/jssc.200700363.

Peng T, Li S, Chu XG, Cai YX, and Li CJ. "Simultaneous determination of residues of chloramphenicol, thiamphenicol and florfenicol in shrimp by high performance liquid chromatography-tandem mass spectrometry." *Chinese Journal of Analytical Chemistry* **2005**, *33*(4):463-466.

Peng X, Tan J, Tang C, Yu Y, and Wang Z. "Multiresidue determination of fluoroquinolone, sulfonamide, trimethoprim, and chloramphenicol antibiotics in urban waters in China." *Environmental Toxicology and Chemistry* **2008**, *27*(1):73-79; doi:10.1897/06-650.1.

Peng X, Wang Z, Kuang W, Tan J, and Li K. "A preliminary study on the occurrence and behavior of sulfonamides, ofloxacin and chloramphenicol antimicrobials in wastewaters of two sewage treatment plants in Guangzhou, China." *Science of the Total Environment* **2006**, *371*(1-3):314-322; doi:10.1016/j.scitotenv.2006.07.001.

Peng X, Wang Z, Yang C, Chen F, and Mai B. "Simultaneous determination of endocrine-disrupting phenols and steroid estrogens in sediment by gas chromatography-mass spectrometry." *Journal of Chromatography A* **2006**, *1116*(1-2):51-56; doi:10.1016/j.chroma.2006.03.017.

Peng X, Yu Y, Tang C, Tan J, Huang Q, and Wang Z. "Occurrence of steroid estrogens, endocrine-disrupting phenols, and acid pharmaceutical residues in urban riverine water of the Pearl River Delta, South China." *Science of the Total Environment* **2008**, *397*(1-3):158-166; doi:10.1016/j.scitotenv.2008.02.059.

Penteado JCP, Seoud OAE, and Carvalho LRF. "Linear alkylbenzene sulfonates: Chemistry, environmental impact and analysis." *Quimica Nova* **2006**, *29*(5):1038-1046; doi:10.1590/S0100-40422006000500025.

Pepin J-M. "Impacts ecotoxicologiques de certains medicaments dans l'environnement." Masters Dissertation, Universite de Sherbrooke, Centre Universitaire de Formation en Environnement, Sherbrooke, Quebec, 2006. http://www.usherbrooke.ca/environnement/publications/ouvrages/essais_memoires/JMPepin.pdf.

Pepper IL, Zerzghi H, Brooks JP, and Gerba CP. "Sustainability of Land Application of Class B Biosolids." *Journal of Environmental Quality* **2008**, *37*(5_Supplement):S-58-67; doi:10.2134/jeq2007.0321.

Peralta R and Poterack KA. "Toxicity, Lidocaine." emedicine, WebMD, Medscape, 2008, http://emedicine.medscape.com/article/167309-overview.

Pereira C, Mapuskar K, and Rao CV. "Chronic toxicity of diethyl phthalate--A three generation lactational and gestational exposure study on male Wistar rats." *Environmental Toxicology and Pharmacology* **2007**, *23*(3):319-327; doi:10.1016/j.etap.2006.12.005.

Pereira VJ, Linden KG, and Weinberg HS. "Evaluation of UV irradiation for photolytic and oxidative degradation of pharmaceutical compounds in water." *Water Research* **2007**, *41*(19):4413-4423; doi:10.1016/j.watres.2007.05.056.

Pereira VJ, Weinberg HS, Linden KG, and Singer PC. "UV Degradation Kinetics and Modeling of Pharmaceutical Compounds in Laboratory Grade and Surface Water via Direct and Indirect Photolysis at 254 nm." *Environmental Science & Technology* **2007**, *41*(5):1682-1688.

Pereira VRPJ. "Analytical methods validation and bench scale UV treatment of pharmaceutical compounds and contrast media in water." Doctoral Dissertation, The University of North Carolina at Chapel Hill, Environmental Engineering, Chapel Hill, North Carolina, 2005. 110 pp; http://gradworks.umi.com/31/90/3190297.html.

Peretz J, Gallicchio L, Miller S, Greene T, Zacur H, and Flaws JA. "Infertility Among Cosmetologists." *Reproductive Toxicology* **2009**, *28*(3):359-364; doi:10.1016/j.reprotox.2009.05.068.

Pérez P, Fernández E, and Beiras R. "Toxicity of Benzalkonium Chloride on Monoalgal Cultures and Natural Assemblages of Marine Phytoplankton." *Water, Air, & Soil Pollution* **2009**, *201*(1):319-330; doi:10.1007/s11270-008-9947-x.

Pérez Pavón JL, Casas Ferreira AM, Fernández Laespada ME, and Moreno Cordero B. "In situ derivatization reaction and determination of ibuprofen in water samples using headspace generation-programmed temperature vaporization-gas chromatography-mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(39):6728-6734; doi:10.1016/j.chroma.2009.08.011.

Perez S and Barcelo D. "Application of advanced MS techniques to analysis and identification of human and microbial metabolites of pharmaceuticals in the aquatic environment." *Trends in Analytical Chemistry* **2007**, *26*(6):494-514; doi:10.1016/j.trac.2007.05.004.

Perez S and Barceló D. "Advances in the Analysis of Pharmaceuticals in the Aquatic Environment." in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press; Boca Raton, FL, 2007, Chapter 2, pp 53-80; http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Treatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#PPR8,M1.

Pérez S and Barceló D. "Fate and occurrence of X-ray contrast media in the environment." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1235-1246.

Pérez S and Barceló D. "Applications of LC-MS to quantitation and evaluation of the environmental fate of chiral drugs and their metabolites." *Trends in Analytical Chemistry* **2008**, *27*(10):836-846; doi:10.1016/j.trac.2008.09.003.

Perez S, Eichhorn P, and Aga DS. "Evaluating the biodegradability of sulfamethazine, sulfamethoxazole, sulfathiazole, and trimethoprim at different stages of sewage treatment." *Environmental Toxicology and Chemistry* **2005**, *24*(6):1361-1367; doi:10.1897/04-211R.1.

Perez S, Eichhorn P, and Barcelo D. "Structural Characterization of Photodegradation Products of Enalapril and Its Metabolite Enalaprilat Obtained under Simulated Environmental Conditions by Hybrid Quadrupole-Linear Ion Trap-MS and Quadrupole-Time-of-Flight-MS." *Analytical Chemistry* **2007**, *79*(21):8293-8300; doi:10.1021/ac070891u.

Perez S, Eichhorn P, Celiz MD, and Aga DS. "Structural characterization of metabolites of the X-ray contrast agent iopromide in activated sludge using ion trap mass spectrometry." *Analytical Chemistry* **2006**, *78*(6):1866-1874; doi:10.1021/ac0518809.

Pérez S, McJury BE, Eichhorn P, and Aga DS. "Determination of the antimicrobial growth promoter moenomycin-A in chicken litter." *Journal of Chromatography A* **2007**, *1175*(2):234-241; doi:10.1016/j.chroma.2007.10.053.

Pérez S, Petrovic M, and Barceló D. "Analyzing transformation products of synthetic chemicals." *The Handbook of Environmental Chemistry* **2009**, *2, Part P*:43-81; doi:10.1007/698_2_016.

Perez-Estrada LA, Aguera A, Hernando MD, Malato S, and Fernandez-Alba AR. "Photodegradation of malachite green under natural sunlight irradiation: Kinetic and toxicity of the transformation products." *Chemosphere* **2008**, *70*(11):2068-2075; doi:10.1016/j.chemosphere.2007.09.008.

Pérez-Estrada LA, Malato S, Agüera A, and Fernández-Alba AR. "Degradation of dipyrone and its main intermediates by solar AOPs: Identification of intermediate products and toxicity assessment." *Catalysis Today* **2007**, *129*(1-2):207-214; doi:10.1016/j.cattod.2007.08.008.

Perez-Estrada LA, Malato S, Gernjak W, Aguera A, Thurman EM, Ferrer I*, et al.* "Photo-Fenton Degradation of Diclofenac: Identification of Main Intermediates and Degradation Pathway." *Environmental Science & Technology* **2005**, *39*(21):8300-8306.

Perez-Estrada LA, Maldonado MI, Gernjak W, Aguera A, Fernandez-Alba AR, Ballesteros MM*, et al.* "Decomposition of diclofenac by solar driven photocatalysis at pilot plant scale." *Catalysis Today* **2005**, *101*(3-4):219-226; doi:10.1016/j.cattod.2005.03.013.

Perreault HAN, Semsar K, and Godwin J. "Fluoxetine treatment decreases territorial aggression in a coral reef fish." *Physiology & Behavior* **2003**, *79*(4-5):719-724; doi:10.1016/S0031-9384(03)00211-7.

Perret D, Gentili A, Marchese S, Greco A, and Curini R. "Sulphonamide residues in Italian surface and drinking waters: A small scale reconnaissance." *Chromatographia* **2006**, *63*(5-6):225-232; doi:10.1365/s10337-006-0737-6.

Persson M, Sabelström E, and Gunnarsson B. "Handling of unused prescription drugs -- knowledge, behaviour and attitude among Swedish people." *Environment International* **2009**, *35*(5):771-774; doi:10.1016/j.envint.2008.10.002.

Peru KM, Kuchta SL, Headley JV, and Cessna AJ. "Development of a hydrophilic interaction chromatography-mass spectrometry assay for spectinomycin and lincomycin in liquid hog manure supernatant and run-off from cropland." *Journal of Chromatography A* **2006**, *1107*(1-2):152-158; doi:10.1016/j.chroma.2005.12.057.

Péry ARR, Gust M, Vollat B, Mons R, Ramil M, Fink G*, et al.* "Fluoxetine effects assessment on the life cycle of aquatic invertebrates." *Chemosphere* **2008**, *73*(3):300-304; doi:10.1016/j.chemosphere.2008.06.029.

Peschka M, Eubeler JP, and Knepper TP. "Occurrence and Fate of Barbiturates in the Aquatic Environment." *Environmental Science & Technology* **2006**, *40*(23):7200-7206.

Peschka M, Roberts P, and Knepper T. "Analysis, fate studies and monitoring of the antifungal agent clotrimazole in the aquatic environment." *Analytical and Bioanalytical Chemistry* **2007**, *389*(3):959-968; doi:10.1007/s00216-007-1480-z.

Pessala P. "Tracking and identifying wastewater toxicants and assessing their biodegradation products." Department of Applied Chemistry and Microbiology, Helsinki, Finland, 2008. 54 pp; https://oa.doria.fi/bitstream/handle/10024/42908/tracking.pdf?sequence=1.

Peta.org. Year Unknown, "Pharmaceuticals in the water supply." People for the Ethical Treatment of Animals, 4 pp; http://www.covancecruelty.com/pdfs/CovanceWater.pdf.

Peter AP. "Hormesis: an adaptive expectation with emphasis on ionizing radiation." *Journal of Applied Toxicology* **2000**, *20*(2):103-112.

Peters R, Beeltje H, and van Delft R. "Xeno-estrogenic compounds in precipitation." *Journal of Environmental Monitoring* **2008**, *10*(6):760-769; doi:10.1039/b805983g.

Peters REM, Courtenay SC, Cagampan S, Hewitt ML, and MacLatchy DL. "Effects on reproductive potential and endocrine status in the mummichog (Fundulus heteroclitus) after exposure to 17α-ethynylestradiol in a short-term reproductive bioassay." *Aquatic Toxicology* **2007**, *85*(2):154-166; doi:10.1016/j.aquatox.2007.08.010.

Peters REM, Courtenay SC, Hewitt LM, and MacLatchy DL. "Effects of 17[alpha]-ethynylestradiol on early-life development, sex differentiation and vitellogenin induction in mummichog (Fundulus heteroclitus)." *Marine Environmental Research* **2009**, *In Press*; doi:10.1016/j.marenvres.2009.10.002.

Petersen GI, Andersen L, Holbech H, and Pedersen KL. "Baseline test studies and development of ELISA." TemaNord 2000:555, Bernan, Lanham, MD, USA, May, 2000, 35-46 pp; http://www.norden.org/pub/ebook/2000-555.pdf.

Peterson AM. "Managing pharmacy practice: Principles, strategies, and systems." CRC Press, Pharmacy Education Series, 2004, 536 pp; http://www.crcpress.com/shopping_cart/products/product_detail.asp?sku=1446.

Peterson EW, Wicks CM, and Kelley CA. "Persistence of 17 b-estradiol in water and sediment-pore water from cave streams in central Missouri." *Environmental and Engineering Geoscience* **2005**, *11*(3):221-228; doi:10.2113/11.3.221.

Petit H. "Cosmetics in our aquatic environment." *Biofutur* **2005**, *259*:41-43.

Petit H. "The contamination of waters by medicines: a problematic complex." *Biofutur* **2005**, *259*:44-46.

Petit H. "Risques sanitaires et écologiques des résidus de médicaments dans les eaux: de la science à la décision." *Environment, Risques & Sante* **2006**, *5*(4).

Petkewich R. "Big pharma chases dogs and cats." *Chemical & Engineering News* **2007**, *85*(26):31-34.

Petrasek AC, Kugelman IJ, Austern BM, Pressley TA, Winslow LA, and Wise RH. "Fate of Toxic Organic Compounds in Wastewater Treatment Plants." *Journal of the Water Pollution Control Federation* **1983**, *55*(10):1286-1296.

Petrisor IG. "Emerging contaminants - The growing problem." *Environmental Forensics* **2004**, *5*:183-184.

Petrovic M and Barcelo D, Eds., "Analysis, Fate, and Removal of Pharmaceuticals in the Water Cycle." Elsevier Science, Amsterdam, The Netherlands, 2007, 600 pp; http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Petrovic M and Barceló D. "Liquid chromatography - mass spectrometry in the analysis of emerging environmental contaminants." *Analytical and Bioanalytical Chemistry* **2006**, *385*(3):422-424; doi:10.1007/s00216-006-0450-1.

Petrovic M and Barceló D. "LC-MS for identifying photodegradation products of pharmaceuticals in the environment." *Trends in Analytical Chemistry* **2007**, *26*(6):486-493; doi:10.1016/j.trac.2007.02.010.

Petrovic M, Eljarrat E, Gros M, de la Cal A, and Barceló D. "Emerging contaminants at water-sediment system: Case study of pharmaceuticals and brominated flame retardants in the Ebro river basin." in *The Water Framework Directive: Ecological and Chemical Status Monitoring*, Quevauviller P, Borchers U, Thompson C and Simonart T, Eds., 2008, Section 7.2, pp; http://www.wiley.com/WileyCDA/WileyTitle/productCd-0470518367,descCd-tableOfContents.html.

Petrovic M, Eljarrat E, Lopez de Alda MJ, and Barcelo D. "Recent advances in the mass spectrometric analysis related to endocrine disrupting compounds in aquatic environmental samples." *Journal of Chromatography A* **2002**, *974*(1-2):23-51; doi:10.1016/S0021-9673(02)00907-X.

Petrovic M, Eljarrat E, Lopez de Alda MJ, and Barcelo D. "Endocrine disrupting compounds and other emerging contaminants in the environment: A survey on new monitoring strategies and occurrence data." *Analytical and Bioanalytical Chemistry* **2004**, *Volume 378*(3):549-562; doi:10.1007/s00216-003-2184-7.

Petrovic M, Gonzalez S, and Barcelo D. "Analysis and removal of emerging contaminants in wastewater and drinking water." *Trends in Analytical Chemistry* **2003**, *22*(10):685-696.

Petrovic M, Gros M, and Barcelo D. "Multi-residue analysis of pharmaceuticals in wastewater by ultra-performance liquid chromatography-quadrupole-time-of-flight mass spectrometry." *Journal of Chromatography A* **2006**, *1124*(1-2):68-81; doi:10.1016/j.chroma.2006.05.024.

Petrović M, Gros M, and Barceló D. "Analysis of Pharmaceuticals as Environmental Contaminants - Multi-residue analysis of pharmaceuticals using LC-tandem MS and LC-hybrid MS." *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle* **2007**, *Volume 50*:157-183.

Petrović M, Hernando MD, Diaz-Cruz MS, and Barceló D. "Liquid chromatography-tandem mass spectrometry for the analysis of pharmaceutical residues in environmental samples: a review." *Journal of Chromatography A* **2005**, *1067*(1-2):1-14; doi:10.1016/j.chroma.2004.10.110.

Petrovic M, Lopez de Alda MJ, Diaz-Cruz S, Postigo C, Radjenovic J, Gros M*, et al.* "Fate and removal of pharmaceuticals and illicit drugs in conventional and membrane bioreactor wastewater treatment plants and by riverbank filtration." *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences* **2009**, *367*(1904):3979-4003; doi:10.1098/rsta.2009.0105.

Petrovic M, Radjenovic J, Postigo C, Kuster M, Farre M, de Alda M*, et al.* "Emerging Contaminants in Waste Waters: Sources and Occurrence." *The Handbook of Environmental Chemistry* **2008**, *5, Part S/1*:1-35; doi:10.1007/698_5_106.

Petrovic M, Tavazzi S, and Barcelo D. "Column-switching system with restricted access pre-column packing for an integrated sample cleanup and liquid chromatographic-mass spectrometric analysis of alkylphenolic compounds and steroid sex hormones in sediment." *Journal of Chromatography A* **2002**, *971*(1-2):37-45; doi:10.1016/S0021-9673(02)01026-9.

Pettersson I, Arukwe A, Lundstedt-Enkel K, Mortensen AS, and Berg C. "Persistent sex-reversal and oviducal agenesis in adult Xenopus (Silurana) tropicalis frogs following larval exposure to the environmental pollutant ethynylestradiol." *Aquatic Toxicology* **2006**, *79*(4):356-365; doi:10.1016/j.aquatox.2006.07.004.

Pettersson I and Berg C. "Environmentally relevant concentrations of ethynylestradiol cause female-biased sex ratios in Xenopus tropicalis and Rana temporaria." *Environmental Toxicology and Chemistry* **2007**, *26*(5):1005-1009; doi:10.1897/06-464R.1.

Pettersson M. "Endocrine disrupting compounds in effluent waters: Chemical analysis to evaluate exposure of fish." Doctoral Dissertation, Stockholm University, Department of Applied Environmental Science (ITM), Stockholm, 2006. 56 pp; http://www.diva-portal.org/su/theses/abstract.xsql?dbid=1373.

Pettersson M, Adolfsson-Erici M, Parkkonen J, Forlin L, and Asplund L. "Fish bile used to detect estrogenic substances in treated

sewage water." *Science of the Total Environment* **2006**, *366*(1):174-186; doi:10.1016/j.scitotenv.2005.07.005.

Pettersson M, Hahlbeck E, Katsiadaki I, Asplund L, and Bengtsson B-E. "Survey of estrogenic and androgenic disruption in Swedish coastal waters by the analysis of bile fluid from perch and biomarkers in the three-spined stickleback." *Marine Pollution Bulletin* **2007**, *54*(12):1868-1880; doi:10.1016/j.marpolbul.2007.08.005.

Petty JD, Huckins JN, Alvarez DA, Brumbaugh WG, Cranor WL, Gale RW*, et al.* "A holistic passive integrative sampling approach for assessing the presence and potential impacts of waterborne environmental contaminants." *Chemosphere* **2004**, *54*(6):695-705; doi:10.1016/j.chemosphere.2003.08.015.

PEW "The PEW campaign on human health and industrial farming." 2009, http://www.saveantibiotics.org/.

PEW. "Antibiotic resistance bacteria in animals." 2009, http://www.saveantibiotics.org/ourwork.html.

Pfeifer T, Tuerk J, Bester K, and Spiteller M. "Determination of selected sulfonamide antibiotics and trimethoprim in manure by electrospray and atmospheric pressure chemical ionization tandem mass spectrometry." *Rapid Communications in Mass Spectrometry* **2002**, *16*(7):663-669; doi:10.1002/rcm.624.

Pfeifer T, Tuerk J, and Fuchs R. "Structural Characterization of Sulfadiazine Metabolites Using H/D Exchange Combined with Various MS/MS Experiments." *Journal of the American Society for Mass Spectrometry* **2005**, *16*(10):1687-1694; doi:10.1016/j.jasms.2005.06.008.

Pfluger P and Dietrich DR. "Effects on Pharmaceuticals in the Environment an Overview and Principle Considerations." in *Pharmaceuticals in the Environment*, Berlin: Springer; 2001, pp 11-17.

PGRN "PharmGKB: The Pharmacogenetics and Pharmacogenomics Knowledge Base." Pharmacogenetics Research Network, Stanford University 2008; http://www.pharmgkb.org/.

PH:ARM. "Presentations and handouts." presented at Medicine Take-Back Workshop, 18 April, at Seattle, WA, 2008; http://www.medicinereturn.com/resources/workshop.

PH:ARM. "Unwanted Medicine Return Program - Poisoning & abuse risk." PH:ARM, Washington State, 2008, 1 pp; http://www.medicinereturn.com/poison-abuse-risk.

PH:ARM "Unwanted Medicine Return Program." 2009, http://www.medicinereturn.com/.

Pharma Algorithms "ADME Boxes." 2009; http://www.pharma-algorithms.com/adme_boxes.htm.

Pharmaceuticals.org "Pharmaceuticals from the Human System to the Human System." 2008, http://www.toilets.com/pharmaceuticals.htm.

Pharmaceuticals.Org Inc. "Business Introduction." 2008, 15 pp; http://goliath.ecnext.com/coms2/product-compint-0000655889-page.html.

Pharmacia & Upjohn Company. "Original New Animal Drug Application, NADA 141-295: PALLADIA (toceranib phosphate tablets, dogs)." Pfizer, Inc., 22 May, 2009, 34 pp; http://www.fda.gov/downloads/AnimalVeterinary/Products/ApprovedAnimalDrugProducts/FOIADrugSummaries/UCM164091.pdf.

Pharmacist's Letter/Prescriber's Letter. "Proper disposal of expired or unwanted drugs." *Pharmacist's Letter/Prescriber's Letter* **2007**, *23*(4):230401.

PharmPedia. "On-line Text Books." **2009**, http://www.pharmpedia.com/Main_Page.

Phase Separtion Solutions Inc. "Pharmaceutical Waste Destruction." 2 pp; http://www.phaseparation.com/pdf/Pharma2page.pdf.

Philips Research "Philips' intelligent pill technology - the iPill." Web Page maintained by Koninklijke Philips Electronics N.V. 2008, http://www.research.philips.com/newscenter/backgrounders/081111-ipill.html; http://www.research.philips.com/newscenter/archive/2008/081111-ipill.html.

Phillips DP, Barker GEC, and Eguchi MM. "A Steep Increase in Domestic Fatal Medication Errors With Use of Alcohol and/or Street Drugs." *Archives of Internal Medicine* **2008**, *168*(14):1561-1566; doi:10.1001/archinte.168.14.1561.

Phillips I, Casewell M, Cox T, De Groot B, Friis C, Jones R*, et al.* "Does the use of antibiotics in food animals pose a risk to human health? A critical review of published data." *Journal of Antimicrobial Chemotherapy* **2004**, *53*(1):28-52; doi:10.1093/jac/dkg483.

Phillips KP, Foster WG, Leiss W, Sahni V, Karyakina N, Turner MC*, et al.* "Assessing and Managing Risks Arising from Exposure to Endocrine-Active Chemicals." *Journal of Toxicology and Environmental Health, Part B Critical Review* **2008**, *11*(3):351 - 372; doi:10.1080/10937400701876657.

Phillips P and Chalmers A. "Wastewater Effluent, Combined Sewer Overflows, and Other Sources of Organic Compounds to Lake Champlain[1]." *Journal of the American Water Resources Association* **2009**, *45*(1):45-57; doi:10.1111/j.1752-1688.2008.00288.x.

Phish-Pharm "Fish Drug/Chemical Analysis Phish-Pharm (FDA-PP) database." 2009; http://www.fda.gov/AnimalVeterinary/ScienceResearch/ToolsResources/Phish-Pharm/default.htm.

Pholchan P, Jones M, Donnelly T, and Sallis PJ. "Fate of Estrogens during the Biological Treatment of Synthetic Wastewater in a Nitrite-Accumulating Sequencing Batch Reactor." *Environmental Science & Technology* **2008**, *42*(16):6141-6147; doi:10.1021/es800891u.

PhRMA. "Enhancement of the PhRMA Code on Interactions with Healthcare Professionals." **2008**, http://www.phrma.org/news_room/press_releases/phrma_code_reinforces_commitment_to_responsible_interactions_with_healthcare_professionals/.

PhRMA. 2008, "Code on interactions with healthcare professionals." 36 pp; http://www.phrma.org/files/PhRMA%20Marketing%20Code%202008.pdf.

PhRMA. "PhRMA Statement on Sustainability & Manufacturing Process." Washington, DC, 23 April, 2009, http://www.phrma.org/news_room/press_releases/phrma_statement_on_sustainability_and_manufacturing_process/.

Picard-Aitken M, Fournier H, Pariseau R, Marcogliese DJ, and Cyr DG. "Thyroid disruption in walleye (Sander vitreus) exposed to environmental contaminants: Cloning and use of iodothyronine deiodinases as molecular biomarkers." *Aquatic Toxicology* **2007**, *83*(3):200-211; doi:10.1016/j.aquatox.2007.04.004.

Piccoli A, Fiori J, Andrisano V, and Orioli M. "Determination of triclosan in personal health care products by liquid chromatography (HPLC)." *Il Farmaco* **2002**, *57*(5):369-372; doi:10.1016/S0014-827X(02)01225-9.

Pichini S, Navarro M, Pacifici R, Zuccaro P, Ortuno J, Farre M*, et al.* "Usefulness of Sweat Testing for the Detection of MDMA after a Single-Dose Administration." *Journal of Analytical Toxicology* **2003**, *27*(5):294-303.

Pichini S, Pujadas M, Marchei E, Pellegrini M, Fiz J, Pacifici R*, et al.* "Liquid chromatography-atmospheric pressure ionization electrospray mass spectrometry determination of "hallucinogenic designer drugs" in urine of consumers." *Journal of Pharmaceutical and Biomedical Analysis* **2008**, *47*(2):335-342; doi:10.1016/j.jpba.2007.12.039.

Pickrell J. "Killer Cocktails: drug mixes threaten aquatic ecosystems." *Science News* **2002**, *162*(7):101.

Pico Y and Andreu V. "Fluoroquinolones in soil - risks and challenges." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1287-1299; doi:10.1007/s00216-006-0843-1.

Pierini E, Famiglini G, Mangani F, and Cappiello A. "Fate of enrofloxacin in swine sewage." *Journal of Agricultural and Food Chemistry* **2004**, *52*(11):3473-3477; doi:10.1021/jf049865c.

Pierrard MA, Kestemont P, and Silvestre F. "Development of a molecular biomarker system using proteomics on lymphocyte culture to assess the use of drugs and chemicals in Pangasianodon hypophthalmus aquaculture." *Comparative Biochemistry and Physiology - Part A: Molecular & Integrative Physiology* **2009**, *154*(1, Supplement 1):S19-S19; doi:10.1016/j.cbpa.2009.05.068.

Pietrogrande MC and Basaglia G. "GC-MS analytical methods for the determination of personal-care products in water matrices." *Trends in Analytical Chemistry* **2007**, *26*(11):1086-1094; doi:10.1016/j.trac.2007.09.013.

Pietrogrande MC, Basaglia G, and Dondi F. "Signal processing to evaluate parameters affecting SPE for multi-residue analysis of personal care products." *Journal of Separation Science* **2009**, *32*(9):1249-1261; doi:10.1002/jssc.200800749.

Pietsch C, Neumann N, Knopf K, Wuertz S, and Kloas W. "Progestogens cause immunosuppression of stimulated carp (Cyprinus carpio L.) leukocytes in vitro." *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* **2009**, *150*(1):16-24; doi:10.1016/j.cbpc.2009.02.003.

Piferrer F and Donaldson E. "Uptake and clearance of exogenous estradiol-17β and testosterone during the early development of coho salmon (Oncorhynchus kisutch), including eggs, alevins and fry." *Fish Physiology and Biochemistry* **1994**, *13*(3):219-232; doi:10.1007/BF00004360.

Piggee C. "Investigating a not-so-natural high." *Analytical Chemistry* **2009**, *81*(9):3205-3207; doi:10.1021/ac900564u.

Pilcher H. "The science of voodoo: When mind attacks body." *New Scientist* **2009**, (2708).

Pilgeram L. "Atherogenesis: Historical Perspective, Biochemical Mechanism, and Current Status." *Cardiovascular Engineering: An International Journal* **2000**, *2*(3):111-128.

Pillon A, Boussioux A-M, Escande A, Aït-Aïssa S, Gomez E, Fenet H*, et al.* "Binding of estrogenic compounds to recombinant estrogen receptor-α: application to environmental analysis." *Environmental Health Perspectives* **2005**, *113*(3):278-284; doi:10.1289/ehp.7522.

Pillon A, Escande A, Lemaire G, Boussioux A-M, Duchesne M-J, Nicolas J-C*, et al.* "Detection of nuclear receptor-binding pharmaceutical compounds in environmental samples." *Environment, Risques & Sante* **2006**, *5*(4):271-274.

Pils JRV and Laird DA. "Sorption of Tetracycline and Chlortetracycline on K- and Ca-Saturated Soil Clays, Humic Substances, and Clay-Humic Complexes." *Environmental Science & Technology* **2007**, *41*(6):1928-1933.

Pines E, Hospitals for a Healthy Environment, and Smith C. "Managing Pharmaceutical Waste: A 10-Step Blueprint for Health Care Facilities In the United States." Hospitals for a Healthy Environment, 15 April, 2006, 108 pp; http://www.h2e-online.org/docs/h2epharmablueprint41506.pdf.

Pinheiro CP. "Drug donations: what lies beneath." *Bulletin of The World Health Organization* **2008**, *86*(8):580-581; doi:10.2471/BLT.07.048546.

Pinkston KE. "The fate of pharmaceutically active compounds in water reuse systems." Doctoral Dissertation, University of California, Berkeley, CA, 2004. 273 pp.

Pinkston KE and Sedlak DL. "Transformation of aromatic ether-and amine-containing pharmaceuticals during chlorine disinfection." *Environmental Science & Technology* **2004**, *38*(14):4019-4025; doi:10.1021/es035368l.

Pinto B, Garritano S, and Reali D. "Occurrence of estrogen-like substances in the marine environment of the Northern Mediterranean Sea." *Marine Pollution Bulletin* **2005**, *50*(12):1681-1685; doi:10.1016/j.marpolbul.2005.07.017.

Pinto CN, Dantas AP, De Moura KCG, Emery FS, Polequevitch PF, Pinto MD*, et al.* "Chemical reactivity studies with naphthoquinones from tabebuia with anti-trypanosomal efficacy." *Arzneimittel-Forschung-Drug Research* **2000**, *50*:1120-1128.

Piotrowska-Cyplik A, Olejnik A, Cyplik P, Dach J, and Czarnecki Z. "The kinetics of nicotine degradation, enzyme activities and genotoxic potential in the characterization of tobacco waste composting." *Bioresource Technology* **2009**, *100*(21):5037-5044; doi:10.1016/j.biortech.2009.05.053.

Pipino S, Api AM, Pons N, Smith RL, and De Matteis F. "Chromogenic derivatives of AHTN (6-acetyl-1,1,2,4,4,7-hexamethyltetralin) react with amino acids and protein in vitro. Spectral characteristics of the colour products." *Food and Chemical Toxicology* **2004**, *42*(5):785-790; doi:10.1016/j.fct.2003.09.012.

Piram A, Salvador A, Gauvrit J-Y, Lanteri P, and Faure R. "Development and optimisation of a single extraction procedure for the LC/MS/MS analysis of two pharmaceutical classes residues in sewage treatment plant." *Talanta* **2008**, *74*(5):1463-1475; doi:10.1016/j.talanta.2007.09.038.

Piram A, Salvador A, Verne C, Herbreteau B, and Faure R. "Photolysis of β-blockers in environmental waters." *Chemosphere* **2008**, *73*(8):1265-1271; doi:10.1016/j.chemosphere.2008.07.018.

Pitarch E, Hernandez F, ten Hove J, Meiring H, Niesing W, Dijkman E*, et al.* "Potential of capillary-column-switching liquid chromatography-tandem mass spectrometry for the quantitative trace analysis of small molecules: Application to the on-line screening of drugs in water." *Journal of Chromatography* **2004**, *1031*(1-2):1-9; doi:10.1016/j.chroma.2003.08.108.

Pitt WC and Sin H. "Invertebrate non-target hazard assessment of caffeine application for control of Eleutherodactylus frogs." US Department of Agriculture, Hilo, Hawaii, 2004.

Pitzer G, "Pharmaceuticals & Personal Care Products: An Rx for Water Quality Problems?" *Western Water Magazine - Water Education Foundation*, 2004, July-August: 4-13 pp; http://epa.gov/nerlesd1/chemistry/ppcp/images/WEF-PPCPs.pdf.

Pivcevic B and Zaja R. "Pesticides and their binary combinations as P-glycoprotein inhibitors in NIH 3T3/MDR1 cells." *Environmental Toxicology and Pharmacology* **2006**, *22*(3):268-276; doi:10.1016/j.etap.2006.04.002.

Plagellat C, Kupper T, de Alencastro LF, Grandjean D, and Tarradellas J. "Biocides in sewage sludge: Quantitative determination in some Swiss wastewater treatment plants." *Bulletin of Environmental Contamination and Toxicology* **2004**, *73*(5):794-801; doi:10.1007/s00128-004-0497-7.

Plagellat C, Kupper T, Furrer R, de Alencastro LF, Grandjean D, and Tarradellas J. "Concentrations and specific loads of UV filters in sewage sludge originating from a monitoring network in Switzerland." *Chemosphere* **2006**, *62*(6):915-925; doi:10.1016/j.chemosphere.2005.05.024.

Plakas SM, Doerge DR, and Turnipseed SB. "Disposition and Metabolism of Malachite Green and Other Therapeutic Dyes in Fish." in *Xenobiotics in Fish*, Smith DJ, Gingerich WH and Beconi-Barker MG, Eds., Kluwer Academic/Plenum Publishers; New York, 1999, Chapter 11, pp 149-166; http://bookshop.blackwell.co.uk/jsp/id/Xenobiotics_in_Fish/9780306461897#synopsis.

Plakas SM, El Said KR, and Musser SM. "Pharmacokinetics, tissue distribution, and metabolism of flumequine in channel catfish (Ictalurus punctatus)." *Aquaculture* **2000**, *187*(1-2):1-14; doi:10.1016/S0044-8486(00)00303-3.

Plant JA, Korre A, Reeder S, Smith B, and Voulvoulis N. "Chemicals in the environment: implications for global sustainability." *Applied Earth Science: IMM Transactions* **2005**, *114*(2):65-97; doi:10.1179/037174505X62857.

Plant N and Klaassen CD, Eds., "Special Issue: Xenobiotic and Endobiotic Transporters: Structure, Function and Regulation." Informa Healthcare, 2008; http://www.informaworld.com/smpp/title~content=g795435058~db=all.

Planta M. "Response to Issue of Antimicrobial Storage." *The Journal of the American Board of Family Medicine* **2008**, *21*(2):168-169; doi:10.3122/jabfm.2008.02.070243.

Po M, Kaercher JD, and Nancarrow BE. "Literature review of factors influencing public perceptions of water reuse." CSIRO Land and Water, Technical Report 54/03, 2003, 44 pp; http://www.clw.csiro.au/publications/technical2003/tr54-03.pdf.

Poiger T, Buser HR, and Muller MD. "Photodegradation of the pharmaceutical drug diclofenac in a lake: Pathway, field measurements, and mathematical modeling." *Environmental Toxicology and Chemistry* **2001**, *20*(2):256-263; doi:10.1897/1551-5028(2001)020<0256:POTPDD>2.0.CO;2.

Poiger T, Buser HR, Muller MD, Balmer ME, and Buerge IJ. "Occurrence and fate of organic micropollutants in the environment: Regional mass balances and source apportioning in surface waters based on laboratory incubation studies in soil and water, monitoring, and computer modeling." *Chimia* **2003**, *57*:492-498.

Poiger T, Buser H-R, Balmer ME, Bergqvist P-A, and Muller MD. "Occurrence of UV filter compounds from sunscreens in surface waters: regional mass balance in two Swiss lakes." *Chemosphere* **2004**, *55*(7):951-963; doi:10.1016/j.chemosphere.2004.01.012.

Pojana G, Bonfa A, Busetti F, Collarin A, and Marcomini A. "Estrogenic potential of the Venice, Italy, lagoon waters." *Environmental Toxicology and Chemistry* **2004**, *23*(8):1874-1880; doi:10.1897/03-222.

Pojana G, Bonfa A, Busetti F, Collarin A, and Marcomini A. "Determination of natural and synthetic estrogenic compounds in coastal lagoon waters by HPLC-electrospray-mass spectrometry." *International Journal of Environmental Analytical Chemistry* **2004**, *84*(10):717-727.

Pojana G, Gomiero A, Jonkers N, and Marcomini A. "Natural and synthetic endocrine disrupting compounds (EDCs) in water, sediment and biota of a coastal lagoon." *Environment International* **2007**, *33*(7):929-936; doi:10.1016/j.envint.2007.05.003.

Polar JA. "The fate of pharmaceuticals after wastewater treatment." *Florida Water Resources Journal* **2007**:26-31.

Pollack A. "Ventures aim to put farms in pharmaceutical vanguard." The NY Times, 2000, 14 May National Science/Health http://oak.cats.ohiou.edu/~brownk4/NYTimes_Biopharm.pdf.

Pollack A. "Pricing Pills by the Results." The New York Times, 2007, New York Times, 14 July http://www.nytimes.com/2007/07/14/business/14drugprice.html?ref=health&pagewanted=all.

Pollack K, Balazs K, and Ogunseitan O. "Proteomic Assessment of Caffeine Effects on Coral Symbionts." *Environmental Science & Technology* **2009**, *43*(6):2085-2091; doi:10.1021/es802617f.

Pollack KA. "The effect of caffeine on algal endosymbionts of reef-building corals." Doctoral Dissertation, Irvine, CA, 2008. 117 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2322381,FM=9,SEARCH=MD.GenericSearch.

Pollack S. "Physiological responses of the fathead minnow (pimephales promelas) to anthropogenic sources of endocrine disruptors." Doctoral Dissertation, College Park, 2008. 200 pp.

Pollard DJ and Woodley JM. "Biocatalysis for pharmaceutical intermediates: the future is now." *Trends in Biotechnology* **2007**, *25*(2):66-73; doi:10.1016/j.tibtech.2006.12.005.

Pollard S. "Risk management for water and wastewater utilities." IWA Publishing, 2008, 175 pp.

Pollino C, Georgiades E, and Holdway D. "Use of the Australian crimson-spotted rainbowfish (Melanotaenia fluviatilis) as a model test species for investigating the effects of endocrine disruptors." *Environmental Toxicology and Chemistry* **2007**, *26*(10):2171-2178; doi:10.1897/06-603R.1.

Pollo A and Benedetti F. "Placebo Response: Relevance to the Rheumatic Diseases." *Rheumatic Disease Clinics of North America* **2008**, *34*(2):331-349; doi:10.1016/j.rdc.2008.04.002.

Polo M, Garcia-Jares C, Llompart M, and Cela R. "Optimization of a sensitive method for the determination of nitro musk fragrances in waters by solid-phase microextraction and gas chromatography with micro electron capture detection using factorial experimental design." *Analytical and Bioanalytical Chemistry* **2007**, *388*(8):1789-1798; doi:10.1007/s00216-007-1359-z.

Polo M, Llompart M, Garcia-Jares C, and Cela R. "Multivariate optimization of a solid-phase microextraction method for the analysis of phthalate esters in environmental waters." *Journal of Chromatography A* **2005**, *1072*(1):63-72; doi:10.1016/j.chroma.2004.12.040.

Polovtsev IS and Scientific Utilization Inc. Decatur AL. "Application of the three phase AC plasma generator for drug destruction." in IEEE International Conference on Plasma Science, 3-5 June, 1996, 149- pp; http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?tp=&arnumber=550666&isnumber=11161.

Polubesova T, Zadaka D, Groisman L, and Nir S. "Water remediation by micelle-clay system: Case study for tetracycline and sulfonamide antibiotics." *Water Research* **2006**, *40*(12):2369-2374; doi:10.1016/j.watres.2006.04.008.

Pomati F, Burns BP, Zuccato E, Neilan BA, and Khan SJ. "Pharmaceuticals in water and their potential impact on reuse." in *Aquatic Toxicology Research Focus*, Svensson EP, Ed., Nova Science Publishers; Huntington, NY, 2008, 2, pp 31-49; http://books.google.com/books?id=itpe5VjoKQgC&pg=PA31&lpg=PA31&dq=Pharmaceuticals+in+water+and+their+potential+impact+on+reuse&source=bl&ots=js6TKAubbW&sig=qK7JqRLFAhcPBjVJKtXheX93bAg&hl=en&ei=Z2yuStbIEcjvlAeq4Z3jBg&sa=X&oi=book_result&ct=result&resnum=1#v=onepage&q=Pharmaceuticals%20in%20water%20and%20their%20potential%20impact%20on%20reuse&f=false.

Pomati F, Castiglioni S, Zuccato E, Fanelli R, Vigetti D, Rossetti C*, et al*. "Effects of a Complex Mixture of Therapeutic Drugs at Environmental Levels on Human Embryonic Cells." *Environmental Science & Technology* **2006**, *40*(7):2442-2447.

Pomati F, Cotsapas CJ, Castiglioni S, Zuccato E, and Calamari D. "Gene expression profiles in zebrafish (Danio rerio) liver cells exposed to a mixture of pharmaceuticals at environmentally relevant concentrations." *Chemosphere* **2007**, *70*(1):65-73; doi:10.1016/j.chemosphere.2007.07.048.

Pomati F, Neilan BA, Suzuki T, Manarolla G, and Rossetti C. "Enhancement of intracellular saxitoxin accumulation by lidocaine hydrochloride in the cyanobacterium Cylindrospermopsis raciborskii T3 (Nostocales)." *Journal of Phycology* **2003**, *39*(3):535-542; doi:10.1046/j.1529-8817.2003.02122.x.

Pomati F, Netting AG, Calamari D, and Neilan BA. "Effects of erythromycin, tetracycline and ibuprofen on the growth of Synechocystis sp. and Lemna minor." *Aquatic Toxicology* **2004**, *67*(4):387-396; doi:10.1016/j.aquatox.2004.02.001.

Pomati F, Orlandi C, Clerici M, Luciani F, and Zuccato E. "Effects and Interactions in an Environmentally Relevant Mixture of Pharmaceuticals." *Toxicological Sciences* **2008**, *102*(1):129-137; doi:10.1093/toxsci/kfm291.

Pomerantz JM. "Recycling expensive medication: why not?" *MedGenMed* **2004**, *6*(2):4.

Pontius F. "Legislation/Regulation -- Tap Water Pharmaceuticals: Back to the Future." *American Water Works Association* **2008**, *100*(6):16-28.

Pontius FW. "White Paper for National Rural Water Association on Pharmaceuticals and Personal Care Products (PPCPs) In Drinking Water." Pontius Water Consultants, Inc., 30 July, 2008, 36 pp; http://www.nrwa.org/whitepapers/risks/2008papers/pontius%20PPCP_White_Paper%20final%20with%20Q&A.pdf.

Ponza P. "Molecular markers of ecotoxicological interest in the rainbowfish Melanotaenia fluviatilis." Doctoral Dissertation, RMIT University, 2006. http://adt.lib.rmit.edu.au/adt/public/adt-VIT20080102.121231/.

Poon WT, Lam YH, Lai CK, Chan AYW, and Mak TWL. "Analogues of erectile dysfunction drugs: an under-recognised threat." *Hong Kong Medical Journal* **2007**, *13*(5):359-363.

Poopa W, Weschayanwiwat P, and Sabatini DA. "Adsorption Behavior of Amphiphile Molecules onto Various Adsorbents and Its relation to Interfacial Characteristics." *Thai Environmental Engineering Journal* **Year Unknown**, *20*(3):1-12.

Poovey B. "Meth makers leave behind a toxic trail at motels." Star Telegram, 2009, Associated Press, 23 February http://www.star-telegram.com/461/story/1218959.html.

Pope L, Boxall A, Corsing C, Halling-Sorensen B, Tait A, and Topp E. "Exposure Assessment of Veterinary Medicines in Terrestrial Systems." *Veterinary Medicines in the Environment* **2008**:129-154.

Porsbring T, Blanck H, Tjellström H, and Backhaus T. "Toxicity of the pharmaceutical clotrimazole to marine microalgal communities." *Aquatic Toxicology* **2009**, *91*(3):203-211; doi:10.1016/j.aquatox.2008.11.003.

Porte C, Biosca X, Sole M, and Albaiges J. "The integrated use of chemical analysis, cytochrome P450 and stress proteins in mussels to assess pollution along the Galician coast (NW Spain)." *Environmental Pollution* **2001**, *112*(2):261-268; doi:10.1016/S0269-7491(00)00104-4.

Porte C, Schnell S, Bols NC, and Barata C. "Single and combined toxicity of pharmaceuticals and personal care products (PPCPs) on the rainbow trout liver cell line RTL-W1." *Comparative Biochemistry and Physiology - Part A: Molecular & Integrative Physiology* **2009**, *153*(2, Supplement 1):S85-S85; doi:10.1016/j.cbpa.2009.04.074.

Porter CM and Janz DM. "Treated municipal sewage discharge affects multiple levels of biological organization in fish." *Ecotoxicology and Environmental Safety* **2003**, *54*(2):199-206; doi:10.1016/S0147-6513(02)00056-8.

Poser S. "Prescription drug samples and the 'learned intermediary': The case for liability without preemption." University of Nebraska, 2007, 74 pp; http://works.bepress.com/cgi/viewcontent.cgi?article=1000&context=susan_poser.

Postigo C, Gros M, Kuster M, Petrovic M, De Alda ML, and Barceló D. "The presence of medicines and drugs in waste waters [Presencia de fármacos y drogas en aguas residuales]." *Tecnologia del Agua* **2008**, *28*(303):26-40.

Postigo C, Lopez de Alda MJ, and Barcelo D. "Fully Automated Determination in the Low Nanogram per Liter Level of Different Classes of Drugs of Abuse in Sewage Water by On-Line Solid-Phase Extraction-Liquid Chromatography-Electrospray-Tandem Mass Spectrometry." *Analytical Chemistry* **2008**, *80*(9):3123-3134; doi:10.1021/ac702060j.

Postigo C, Lopez de Alda MJ, and Barceló D. "Analysis of drugs of abuse and their human metabolites in water by LC-MS2." *Trends in Analytical Chemistry* **2008**, *27*(11):1053-1069; doi:10.1016/j.trac.2008.10.002.

Postigo C, López de Alda MJ, and Barceló D. "Drugs of abuse and their metabolites in the Ebro River basin: Occurrence in sewage and surface water, sewage treatment plants removal efficiency, and collective drug usage estimation." *Environment International* **2010**, *36*(1):75-84; doi:10.1016/j.envint.2009.10.004.

Postigo C, Lopez de Alda MJ, Viana M, Querol X, Alastuey A, Artiñano B*, et al.* "Determination of Drugs of Abuse in Airborne Particles by Pressurized Liquid Extraction and Liquid Chromatography-Electrospray-Tandem Mass Spectrometry." *Analytical Chemistry* **2009**, *81*(11):4382-4388; doi:10.1021/ac9002485.

Potera C. "Drugged drinking water." *Environmental Health Perspectives* **2000**, *108*(10):A446.

Pothitou P and Voutsa D. "Endocrine disrupting compounds in municipal and industrial wastewater treatment plants in Northern Greece." *Chemosphere* **2008**, *73*(11):1716-1723; doi:10.1016/j.chemosphere.2008.09.037.

Poulin C, Stein J, and Butt J. "Surveillance of Drug Overdose Deaths Using Medical Examiner Data." Public Health Agency of Canada, Ottawa, Ontario, Canada, 2000. 1-9 pp; http://www.phac-aspc.gc.ca/publicat/cdic-mcc/19-4/f_e.html.

Pouliquen H, Delepee R, Larhantec-Verdier M, Morvan M-L, and Le Bris H. "Comparative hydrolysis and photolysis of four antibacterial agents (oxytetracycline oxolinic acid, flumequine and florfenicol) in deionised water, freshwater and seawater under abiotic conditions." *Aquaculture* **2007**, *262*(1):23-28; doi:10.1016/j.aquaculture.2006.10.014.

Pouliquen H, Delépée R, Thorin C, Haury J, Larhantec-Verdier M, Morvan M-L*, et al.* "Comparison of Water, Sediment and Plants for the Monitoring of Antibiotics: A Case Study on a River Dedicated to Fish Farming." *Environmental Chemistry* **2009**, *28*(3):496-502; doi:10.1897/08-238.1.

Pouliquen H, Keita D, and Pinault L. "Determination of oxytetracycline in marine shellfish (Crassostrea gigas, Ruditapes philippinarum and Scrobicularia plana) by high-performance liquid chromatography using solid-phase extraction." *Journal of Chromatography* **1992**, *627*(1-2):287-293.

Pouliquen H and Le Bris H. "Sorption of oxolinic acid and oxytetracycline to marine sediments." *Chemosphere* **1996**, *33*(5):801-815; doi:10.1016/0045-6535(96)00236-6.

Pouliquen H and Le Bris H. "Residues of antibacterial drugs in foodstuffs of fish origin: risk assessment." *Revue de medecine veterinaire* **2002**, *153*(10):675-678.

Pouliquen H, Le Bris H, and Pinault L. "Experimental study of the therapeutic application of oxytetracycline, its attenuation in sediment and sea water, and implications for farm culture of benthic organisms." *Marine Ecology Progress Series* **1992**, *89*:93-98.

Pouliquen H, Le Bris H, Thorin C, Larhantec-Verdier M, and Morvan ML. "Quantitative HPLC determination and preliminary assessment of dissolved, suspended, and settled oxolinic acid from turbot farm." *Acta Chromatographica* **2006**, *17*:173-187.

Pouliquen H and Morvan ML. "Determination of Florfenicol in Freshwater, Sediments and Bryophyte Fontinalis antipyretica by HPLC with Fluorescence Detection." *Chromatographia* **2005**, *62*(5):225-231; doi:10.1365/s10337-005-0631-7.

Pouliquen H, Pinault L, and Bris HL. "Determination of Oxolinic Acid in Seawater, Marine Sediment, and Japanese Oyster (Crassostrea Gigas) by High-Performance Liquid Chromatography." *Journal of Liquid Chromatography & Related Technologies* **1994**, *17*(4):929-945; doi:10.1080/10826079408013378.

Pound P, Britten N, Morgan M, Yardley L, Pope C, Daker-White G*, et al.* "Resisting medicines: a synthesis of qualitative studies of medicine taking." *Social Science and Medicine* **2005**, *61*(1):133-155; doi:10.1016/j.socscimed.2004.11.063.

Pounds N, Maclean S, Webley M, Pascoe D, and Hutchinson T. "Acute and chronic effects of ibuprofen in the mollusc Planorbis carinatus (Gastropoda: Planorbidae)." *Ecotoxicology and Environmental Safety* **2008**, *70*(1):47-52; doi:10.1016/j.ecoenv.2007.07.003.

Pounds NA, Hutchinson TH, Williams TD, Whiting P, and Dinan L. "Assessment of putative endocrine disrupters in an in vivo crustacean assay and an in vitro insect assay." *Marine Environmental Research* **2002**, *54*(3-5):709-713; doi:10.1016/S0141-1136(02)00113-7.

Poynton HC and Vulpe CD. "Ecotoxicogenomics: Emerging Technologies for Emerging Contaminants." *Journal of the American Water Resources Association* **2009**, *45*(1):83-96; doi:10.1111/j.1752-1688.2008.00291.x.

Pozo OJ, Guerrero C, Sancho JV, Ibanez M, Pitarch E, Hogendoorn E*, et al.* "Efficient approach for the reliable quantification and confirmation of antibiotics in water using on-line solid-phase extraction liquid chromatography/tandem mass spectrometry." *Journal of Chromatography A* **2006**, *1103*(1):83-93; doi:10.1016/j.chroma.2005.10.073.

Pozo OJ, Sancho JV, Ibanez M, Hernandez F, and Niessen WMA. "Confirmation of organic micropollutants detected in environmental samples by liquid chromatography tandem mass spectrometry: Achievements and pitfalls." *Trends in Analytical Chemistry* **2006**, *25*(10):1030-1042; doi:10.1016/j.trac.2006.06.012.

Prabhakaran D, Sukul P, Lamshöft M, Maheswari MA, Zühlke S, and Spiteller M. "Photolysis of difloxacin and sarafloxacin in aqueous systems." *Chemosphere* **2009**, *77*(6):739-746; doi:10.1016/j.chemosphere.2009.08.031.

Practice GreenHealth. 2006, "Pharmaceutical Waste – Learn Best Management Practices and How to be in Compliance with RCRA." Practice GreenHealth, http://www.practicegreenhealth.org/tools/webinars/archive/archive/249.

Practice GreenHealth. 2007, "Pharmaceutical Waste Management – Case Study – Abbott Northwestern Hospital, Minneapolis, MN." Practice GreenHealth, http://www.practicegreenhealth.org/tools/webinars/archive/archive/298.

Practice GreenHealth. 2008, "Operations Series – Pharmaceutical Waste Prevention." Practice GreenHealth, http://www.practicegreenhealth.org/tools/webinars/archive/archive/406.

Prado N, Ochoa J, and Amrane A. "Biodegradation by activated sludge and toxicity of tetracycline into a semi-industrial membrane bioreactor." *Bioresource Technology* **2009**, *100*(15):3769-3774; doi:10.1016/j.biortech.2008.11.039.

Prado N, Ochoa J, and Amrane A. "Biodegradation and Biosorption of tetracycline and tylosin antibiotics in activated sludge system." *Process Biochemistry* **2009**, *44*(11):1302-1306; doi:10.1016/j.procbio.2009.08.006.

Prado N, Renault E, Ochoa J, and Amrane A. "Development and validation of a rapid method for the determination of tetracycline in activated sludge by SPE clean-up and HPLC-UV detection." *Environmental Technology* **2009**, *30*(5):469 - 476; doi:10.1080/09593330902772040.

Prado T, Pereira WC, Silva DM, Seki LM, Carvalho APDA, and Asensi MD. "Detection of extended-spectrum β-lactamase-producing Klebsiella pneumoniae in effluents and sludge of a hospital sewage treatment plant." *Letters in Applied Microbiology* **2008**, *46*(1):136-141; doi:10.1111/j.1472-765X.2007.02275.x.

Prakash O, Goswami SV, and Sehgal N. "Establishment of ELISA for murrel vitellogenin and choriogenin, as biomarkers of potential endocrine disruption." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2007**, *146*(4):540-551; doi:10.1016/j.cbpc.2007.06.008.

Pramanick P. "Effective approaches to minimize the problem of pharmaceuticals and other personal care products in the environment." Rochester Institute of Technology, Department of Civil Engineering Technology, Environmental Management & Safety, Rochester, NY, 2007. 73 pp; https://ritdml.rit.edu/dspace/bitstream/1850/5970/1/PPramanickThesis10-2007.pdf.

Prasse C, Löffler D, and Ternes TA. "Environmental fate of the anthelmintic ivermectin in an aerobic sediment/water system." *Chemosphere* **2009**, *77*(10):1321-1325; doi:10.1016/j.chemosphere.2009.09.045.

Prat MD, Benito J, Compano R, Hernandez-Arteseros JA, and Granados M. "Determination of quinolones in water samples by solid-phase extraction and liquid chromatography with fluorimetric detection." *Journal of Chromatography A* **2004**, *1041*(1-2):27-33; doi:10.1016/j.chroma.2004.04.042.

Prat MD, Ramil D, Compano R, Hernandez-Arteseros JA, and Granados M. "Determination of flumequine and oxolinic acid in sediments and soils by microwave-assisted extraction and liquid chromatography-fluorescence." *Analytica Chimica Acta* **2006**, *567*(2):229-235; doi:10.1016/j.aca.2006.03.051.

Pratt C, Warnken J, Leeming R, Arthur JM, and Grice DI. "Detection of Intermittent Sewage Pollution in a Subtropical, Oligotrophic, Semi-enclosed Embayment System Using Sterol Signatures in Sediments." *Environmental Science & Technology* **2007**, *41*(3):792-802; doi:10.1021/es061450f.

Prausnitz MR, Mitragotri S, and Langer R. "Current status and future potential of transdermal drug delivery." *Nature Reviews Drug Discovery* **2004**, *3*(2):115-124; doi:10.1038/nrd1304.

Preskorn SH. "Clinical Pharmacology of SSRI's." Wichita, KS, Professional Communications, Inc., 1996, 1st ed.; http://www.preskorn.com/books/ssri_toc.html.

Press-Kristensen K. "Biodegradation of Xenobiotic Organic Compounds in Wastewater Treatment Plants." Doctoral Dissertation, Technical University of Denmark, Institute of Environment & Resources, Lyngby, Denmark, 2007. 64 pp; http://www2.er.dtu.dk/publications/fulltext/2007/MR2007-120.pdf.

Press-Kristensen K, Ledin A, Schmidt JE, and Henze M. "Identifying model pollutants to investigate biodegradation of hazardous XOCs in WWTPs." *Science of the Total Environment* **2007**, *373*(1):122-130; doi:10.1016/j.scitotenv.2006.10.044.

Pressley SA. "N. Carolina effort seeks to wipe out outhouses." Washington Post, 1999, 25 April A http://www.encyclopedia.com/doc/1P2-582898.html, http://www.highbeam.com/doc/1P2-582898.html.

Preston BL and Snell TW. "Direct and indirect effects of sublethal toxicant exposure on population dynamics of freshwater rotifers: a modeling approach." *Aquatic Toxicology* **2001**, *52*(2):87-99; doi:10.1016/S0166-445X(00)00143-0.

Preston BL and Snell TW. "Full life-cycle toxicity assessment using rotifer resting egg production: implications for ecological risk assessment." *Environmental Pollution* **2001**, *114*(3):399-406; doi:10.1016/S0269-7491(00)00232-3.

Preston KL, Huestis MA, Wong CJ, Umbricht A, Goldberger BA, and Cone EJ. "Monitoring cocaine use in substance-abuse-treatment patients by sweat and urine testing." *Journal of Analytical Toxicology* **1999**, *23*(5):313-322.

Pretti C, Novi S, Longo V, and Gervasi PG. "Effect of Clofibrate, a Peroxisome Proliferator, in Sea Bass (Dicentrarchus labrax), a Marine Fish." *Environmental Research* **1999**, *80*(3):294-296; doi:10.1006/enrs.1998.3893.

Preuss G, Willme U, and Zullei-Seibert N. "Verhalten ausgewählter Arzneimittel bei der künstlichen Grundwasseranreicherung - Eliminierung und Effekte auf die mikrobielle Besiedlung [Behaviour of some pharmaceuticals during artificial groundwater recharge - Elimination and effects on microbiology]." *Acta Hydrochimica et Hydrobiologica* **2001**, *29*(5):269-277; doi:10.1002/1521-401X(200112)29:5<269::AID-AHEH269>3.0.CO;2-#.

PricewaterhouseCoopers. "Personalized medicine: the emerging pharmacogenomics revolution." PricewaterhouseCoopers, Global Technology Centre, Health Research Institute, 2005, 40 pp; http://www.pwc.com/techforecast/pdfs/pharmaco-wb-x.pdf.

Prior JAV, Santos JLM, and Lima J. "Sampling strategies exploiting multi-pumping flow systems." *Analytical and Bioanalytical Chemistry* **2003**, *375*(8):1234-1239; doi:10.1007/s00216-003-1813-5.

Pritchard B. "Many Registered Hospital Disinfectants Fail Effectiveness Tests, EPA Reports." *Daily Environment Report* **2009**.

Pritchard JB and Miller DS. "Expression systems for cloned xenobiotic transporters." *Toxicology and Applied Pharmacology* **2005**, *204*(3):256-262; doi:10.1016/j.taap.2004.11.018.

Pro J, Ortiz JA, Boleas S, Fernández C, Carbonell G, and Tarazona JV. "Effect Assessment of Antimicrobial Pharmaceuticals on the Aquatic Plant Lemna minor." *Bulletin of Environmental Contamination and Toxicology* **2003**, *70*(2):0290-0295; doi:10.1007/s00128-002-0208-1.

Proffitt F and Bagla P. "Circling In on a Vulture Killer." *Science* **2004**, *306*(5694):223; doi:10.1126/science.306.5694.223.

Pronk W, Palmquist H, Biebow M, and Boller M. "Nanofiltration for the separation of pharmaceuticals from nutrients in source-separated urine." *Water Research* **2006**, *40*(7):1405-1412; doi:10.1016/j.watres.2006.01.038.

Pruden A. "Production and Transport of Antibiotics from CAFOs." in *Hormones and Pharmaceuticals Generated by Concentrated Animal Feeding Operations*, Springer; New York, NY, 2009, Chapter 9, pp 63-70; doi:10.1007/978-0-387-92834-0_9; http://dx.doi.org/10.1007/978-0-387-92834-0_9.

Pruden A. "Occurrence and transport of antibiotics from CAFOs." in *Hormones and Pharmaceuticals Generated by Concentrated Animal Feeding Operations*, Shore LS and Pruden A, Eds., Springer; 2009, Chapter 9, pp 63-70; doi:10.1007/978-0-387-92834-0_9; http://www.springerlink.com/content/v7610150x5745294/.

Pruden A, Pei RT, Storteboom H, and Carlson KH. "Antibiotic resistance genes as emerging contaminants: Studies in northern Colorado." *Environmental Science & Technology* **2006**, *40*(23):7445-7450; doi:10.1021/es060413l.

Pruden A and Shore L. "Enviromental Impact and Risk of CAFOs." in *Hormones and Pharmaceuticals Generated by Concentrated Animal Feeding Operations*, Springer; New York, NY, 2009, Chapter 14, pp 125-135; doi:10.1007/978-0-387-92834-0_14; http://dx.doi.org/10.1007/978-0-387-92834-0_14.

Prüss A, Giroult E, and Rushbrook P, Eds., "Safe Management of Wastes from Health-Care Activities." World Health Organization, 1999, 267 pp; http://www.bvsde.paho.org/bvsacd/who/safe.pdf.

Prüss A, Giroult E, and Rushbrook P. "Safe Management of Wastes from Health-care Activities: A Practical Guide." Geneva, 1999, 230 pp; http://www.who.int/injection_safety/toolbox/docs/en/waste_management.pdf.

PSI. "PSI Pharmaceuticals Project." Product Stewardship Institute, Boston, MA, 2008, http://www.productstewardship.us/displaycommon.cfm?an=1&subarticlenbr=182.

PSI "The Drug Take-Back Network." Web Page maintained by The Product Stewardship Institute and King Pharmaceuticals, Inc. 2008, http://www.takebacknetwork.com/about.html.

PSI. "Input on Federal Legislation to Amend Statutes Related to Safe Drug Disposal Product Stewardship Institute Regulations

Workgroup September 14, 2009 " Product Stewardship Institute, Boston, MA, 14 September, 2009.

PSI. "Rough Comparison of HR 1191 and HR 1359 (June 2009) " Product Stewardship Institute, Boston, MA, June, 2009.

Pu C, Wu Y-F, Yang H, and Deng A-P. "Trace analysis of contraceptive drug levonorgestrel in wastewater samples by a newly developed indirect competitive enzyme-linked immunosorbent assay (ELISA) coupled with solid phase extraction." *Analytica Chimica Acta* **2008**, *628*(1):73-79; doi:10.1016/j.aca.2008.08.034.

Public Works and Government Services Canada. "Canada Gazette." *Canada Gazette* **2008**, *142*(20):1500-1568.

Pugazhendhi D, Pope GS, and Darbre PD. "Oestrogenic activity of p-hydroxybenzoic acid (common metabolite of paraben esters) and methylparaben in human breast cancer cell lines." *Journal of Applied Toxicology* **2005**, *25*(4):301-309.

Puig P, Borrull F, Aguilar C, and Calull M. "CE Analysis of Cephalosporins in Environmental Waters." *Chromatographia* **2007**, *65*(7-8):501-504; doi:10.1365/s10337-007-0181-2.

Puijker LM and Mons MN. "Pharmaceuticals and personal care products in the water cycle: An international review." Kiwa Water Resrach and Stowa (Netherlands), Global Water Research Coalition (GWRC), 90-77622-06-3, Nieuwegein, The Netherlands, March, 2004, 37 pp; http://library.wur.nl/ebooks/STOWArapporten/1739797.pdf.

Pui-ock S, Ruchirawat M, and Gascoyne P. "Dielectrophoretic Field-Flow Fractionation System for Detection of Aquatic Toxicants." *Analytical Chemistry* **2008**, *80*(20):7727-7734; doi:10.1021/ac801095p.

Pukhalsky AL and Shmarina GV. "Stimulatory and protective effects of alkylating agents applied in ultra-low concentrations." *Pharmacology* **2001**, *62*(3):129-132; doi:10.1159/000056084).

Purcell M. "High Performance Liquid Chromatography-Tandem Mass Spectrometry of Pharmaceuticals and Personal Care Products in Environmental and Biological Matrices." School of Chemical Sciences, Dublin, Ireland, 2009. 207 pp; http://doras.dcu.ie/2343/7/martha_purcell_2009.pdf.

Purdom CE, Hardiman PA, Bye VVJ, Eno NC, Tyler CR, and Sumpter JP. "Estrogenic Effects of Effluents from Sewage Treatment Works." *Chemistry and Ecology* **1994**, *8*(4):275 - 285.

Putman M, van Veen HW, and Konings WN. "Molecular properties of bacterial multidrug transporters." *Microbiology and Molecular Biology Reviews* **2000**, *64*(4):672-693.

Putra EK, Pranowo R, Sunarso J, Indraswati N, and Ismadji S. "Performance of activated carbon and bentonite for adsorption of amoxicillin from wastewater: Mechanisms, isotherms and kinetics." *Water Research* **2009**, *43*(9):2419-2430; doi:10.1016/j.watres.2009.02.039.

Putschew A and Jekel M. "Induced in-source fragmentation for the selective detection of organic bound iodine by liquid chromatography/electrospray mass spectrometry." *Rapid Communications in Mass Spectrometry* **2003**, *17*(20):2279-2282; doi:10.1002/rcm.1180.

Putschew A and Jekel M. "Iodinated x-ray contrast media." in *Organic Pollutants in the Water Cycle*, 1st ed.; Reemtsma T and Jekel M, Eds., Wiley-VCH; Weinheim, Germany, 2006, Chapter 4, pp 87-98; doi:10.1002/352760877X; http://www3.interscience.wiley.com/cgi-bin/summary/112770855/SUMMARY.

Putschew A and Jekel M. "Analysis of Pharmaceuticals as Environmental Contaminants - Analysis of iodinated X-ray contrast media." in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Barcelo D, Ed., Elsevier Science; 2007, Chapter 2.7, pp 265-278; http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Putschew A, Miehe U, Tellez AS, and Jekel M. "Ozonation and reductive deiodination of iopromide to reduce the environmental burden of iodinated X-ray contrast media." *Water Science and Technology* **2007**, *56*(11):159-165; doi:10.2166/wst.2007.827.

Putschew A, Schittko S, and Jekel M. "Quantification of triiodinated benzene derivatives and X-ray contrast media in water samples by liquid chromatography-electrospray tandem mass spectrometry." *Journal of Chromatography A* **2001**, *930*(1-2):127-134; doi:10.1016/S0021-9673(01)01186-4.

Putschew A, Wischnack S, and Jekel M. "Occurrence of triiodinated X-ray contrast agents in the aquatic environment." *Science of the Total Environment* **2000**, *255*(1-3):129-134; doi:10.1016/S0048-9697(00)00461-7.

Püttmann W, Keil F, Oehlmann J, and Schulte-Oehlmann U. "Wassertechnische Strategien zur Reduzierung der Trinkwasserbelastung durch Arzneimittelwirkstoffe [Strategy to Reduce Pharmaceuticals in Drinking Water - Technical Approach]." *Umweltwissenschaften und Schadstoff-Forschung* **2008**, *20*(3):209-226; doi:10.1007/s12302-008-0010-8.

Pyle SM, Sovocool GW, and Riddick LA. "Analysis of volatiles and semivolatiles in drinking water by microextraction and thermal desorption." *Talanta* **2006**, *69*(2):494-499; doi:10.1016/j.talanta.2005.10.020.

Qiang Z, Adams C, and Surampalli R. "Determination of ozonation rate constants for lincomycin and spectinomycin." *Ozone: Science & Engineering* **2004**, *26*(6):525-537; doi:10.1080/01919510490885334.

Qiang Z and Adams CD. "Potentiometric determination of acid dissociation constants (pKa) for human and veterinary antibiotics." *Water Research* **2004**, *38*(12):2874-2890; doi:10.1016/j.watres.2004.03.017.

Qiang ZM, Macauley JJ, Mormile MR, Surampalli R, and Adams CD. "Treatment of antibiotics and antibiotic resistant bacteria in swine wastewater with free chlorine." *Journal of Agricultural and Food Chemistry* **2006**, *54*(21):8144-8154; doi:10.1021/jf060779h.

Qiao Y, Yang H, Wang B, Song J, and Deng A. "Preparation and characterization of an immunoaffinity chromatography column for the selective extraction of trace contraceptive drug levonorgestrel from water samples." *Talanta* **2009**, *80*(1):98-103; doi:10.1016/j.talanta.2009.06.029.

Qiting J and Xiheng Z. "Combination process of anaerobic digestion and ozonization technology for treating wastewater from antibiotics production." *Water Treatment* **1988**, *3*:285-291.

Quack B, Frund HC, Hoper H, and Hamscher G. "Assessing bioactive tetracycline in soil samples - Application of a German-Standard-Bioassay DIN 58940 part 1-3." *Journal of Soils and Sediments* **2005**, *5*(2):107-111; doi:10.1065/jss2004.10.122.

Quanrud DM, Quast K, Conroy O, Karpiscak MM, Gerba CP, Lansey KE*, et al.* "Estrogenic activity and volume fraction of waste water origin in monitoring wells along the Santa Cruz River, Arizona." *Ground Water Monitoring & Remediation* **2004**, *24*(2):86-93; doi:10.1111/j.1745-6592.2004.tb00716.x.

Quednow K and Püttmann W. "Organophosphates and Synthetic Musk Fragrances in Freshwater Streams in Hessen/Germany." *CLEAN - Soil, Air, Water* **2008**, *36*(1):70-77; doi:10.1002/clen.200700023.

Queitsch C, Sangster TA, and Lindquist S. "Hsp90 as a capacitor of phenotypic variation." *Nature* **2002**, *417*:618-624; doi:10.1038/nature749.

Quek NM, Law WS, Lau HF, Zhao JH, C. H, and Li SFY. "Determination of pharmaceuticals classified as emerging pollutants using capillary electrophoresis with capacitively coupled contactless conductivity detection." *Electrophoresis* **2008**, *29*(17):3701-3709; doi:10.1002/elps.200800153.

Quesada-Peñate I, Julcour-Lebigue C, Jáuregui-Haza U-J, Wilhelm A-M, and Delmas H. "Comparative adsorption of levodopa from aqueous solution on different activated carbons." *Chemical Engineering Journal* **2009**, *152*(1):183-188; doi:10.1016/j.cej.2009.04.039.

Quevauviller P. "A TrAC journey into water-chemical metrology in the European Union." *Trends in Analytical Chemistry* **2007**, *26*(1):52-59; doi:10.1016/j.trac.2006.11.014.

Quevauviller P, Borchers U, Thompson C, and Simonart T, Eds., "The Water Framework Directive: Ecological and Chemical Status Monitoring." 2008, 496 pp; http://www.wiley.com/WileyCDA/WileyTitle/productCd-0470518367,descCd-tableOfContents.html.

Quinlan EL, Nietch CT, Batt A, Klemm D, and Lazorchak JM. "Tetracycline and Triclosan Exposure to Stream Periphyton in an Experimental Mesocosm." November 2008.

Quinn B, Gagne F, and Blaise C. "Oxidative metabolism activity in Hydra attenuata exposed to carbamazepine." *Fresenius Environmental Bulletin* **2004**, *13*(8):783-788.

Quinn B, Gagne F, and Blaise C. "An investigation into the acute and chronic toxicity of eleven pharmaceuticals (and their solvents) found in wastewater effluent on the cnidarian, Hydra attenuata." *Science of the Total Environment* **2008**, *389*(2-3):306-314; doi:10.1016/j.scitotenv.2007.08.038.

Quinn B, Gagné F, and Blaise C. "The effects of pharmaceuticals on the regeneration of the cnidarian, Hydra attenuata." *Science of the Total Environment* **2008**, *402*(1):62-69; doi:10.1016/j.scitotenv.2008.04.039.

Quinn B, Gagné F, and Blaise C. "Evaluation of the acute, chronic and teratogenic effects of a mixture of eleven pharmaceuticals on the cnidarian, Hydra attenuata." *Science of the Total Environment* **2009**, *407*(3):1072-1079; doi:10.1016/j.scitotenv.2008.10.022.

Quinn B, Gagne F, Costello M, McKenzie C, Wilson J, and Mothersill C. "The endocrine disrupting effect of municipal effluent on the zebra mussel (Dreissena polymorpha)." *Aquatic Toxicology* **2004**, *66*(3):279-292; doi:10.1016/j.aquatox.2003.10.007.

Quinn JMJ, Lavoie ET, and Ottinger MA. "Reproductive toxicity of trenbolone acetate in embryonically exposed Japanese quail." *Chemosphere* **2007**, *66*(7):1191-1196; doi:10.1016/j.chemosphere.2006.07.085.

Quinn MJ, McKernan M, Lavoie ET, and Ottinger MA. "Immunotoxicity of Trenbolone Acetate in Japanese Quail." *Journal of Toxicology and Environmental Health, Part A Current Issues* **2007**, *70*(1):88 - 93; doi:10.1080/15287390600755026.

Quintana JB, Carpinteiro J, and Rodriguez I. "Analysis of Pharmaceuticals as Environmental Contaminants - Analysis of acidic drugs by gas chromatography." in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Barcelo D, Ed., Elsevier Science; 2007, Chapter 2.5, pp 185-218; http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Quintana JB, Carpinteiro J, Rodriguez I, Lorenzo RA, Carro AM, and Cela R. "Determination of natural and synthetic estrogens in water by gas chromatography with mass spectrometric detection." *Journal of Chromatography A* **2004**, *1024*(1-2):177-185; doi:10.1016/j.chroma.2003.10.074.

Quintana JB, Miro M, Estela JM, and Cerda V. "Automated on-line renewable solid-phase extraction-liquid chromatography exploiting multisyringe flow injection-bead injection lab-on-valve analysis." *Analytical Chemistry* **2006**, *78*(8):2832-2840; doi:10.1021/ac052256z.

Quintana JB and Reemtsma T. "Sensitive determination of acidic drugs and triclosan in surface and wastewater by ion-pair reverse-phase liquid chromatography/tandem mass spectrometry." *Rapid Communications in Mass Spectrometry* **2004**, *18*(7):765-774; doi:10.1002/rcm.1403.

Quintana JB and Reemtsma T. "Rapid and sensitive determination of ethylenediaminetetraacetic acid and diethylenetriaminepentaacetic acid in water samples by ion-pair reversed-phase liquid chromatography-electrospray tandem mass spectrometry." *Journal of Chromatography A* **2007**, *1145*(1-2):110-117; doi:10.1016/j.chroma.2007.01.044.

Quintana JB, Rodil R, López-Mahía P, Muniategui-Lorenzo S, and Prada-Rodríguez D. "Investigating the chlorination of acidic pharmaceuticals and by-product formation aided of an experimental design methodology." *Water Research* **2010**, *44*(1):243-255; doi:10.1016/j.watres.2009.09.018.

Quintana JB, Rodil R, Muniategui-Lorenzo S, Lopez-Mahia P, and Prada-Rodriguez D. "Multiresidue analysis of acidic and polar organic contaminants in water samples by stir-bar sorptive extraction-liquid desorption-gas chromatography-mass spectrometry." *Journal of Chromatography A* **2007**, *1174*(1-2):27-39; doi:10.1016/j.chroma.2007.07.088.

Quintana JB, Rodil R, and Reemtsma T. "Suitability of hollow fibre liquid-phase microextraction for the determination of acidic pharmaceuticals in wastewater by liquid chromatography-electrospray tandem mass spectrometry without matrix effects." *Journal of Chromatography A* **2004**, *1061*(1):19-26; doi:10.1016/j.chroma.2004.10.090.

Quintana JB, Weiss S, and Reemtsma T. "Pathways and metabolites of microbial degradation of selected acidic pharmaceutical and their occurrence in municipal wastewater treated by a membrane bioreactor." *Water Research* **2005**, *39*(12):2654-2664; doi:10.1016/j.watres.2005.04.068.

Ra JS, Kim SD, Chang NI, and An K-G. "Ecological health assessments based on whole effluent toxicity tests and the index of biological integrity in temperate streams influenced by wastewater treatment plant effluents." *Environmental Toxicology and Chemistry* **2007**, *26*(9):2010-2018; doi:10.1897/06-542.

Raab U, Preiss U, Albrecht M, Shahin N, Parlar H, and Fromme H. "Concentrations of polybrominated diphenyl ethers, organochlorine compounds and nitro musks in mother's milk from Germany (Bavaria)." *Chemosphere* **2008**, *72*(1):87-94; doi:10.1016/j.chemosphere.2008.01.053.

Rabbaa-Khabbaz L, Daoud RA, and Karam-Sarkis D. "A simple, sensitive, and rapid method for the determination of cotinine in urine by high-performance liquid chromatography with UV detection." *Journal of Chromatographic Science* **2006**, *44*:535-538.

Rabiet M, Brissaud F, Seidel JL, Pistre S, and Elbaz-Poulichet F. "Positive gadolinium anomalies in wastewater treatment plant effluents and aquatic environment in the Hérault watershed (South France)." *Chemosphere* **2009**, *75*(8):1057-1064;

doi:10.1016/j.chemosphere.2009.01.036.

Rabiet M, Togola A, Brissaud F, Seidel JL, Budzinski H, and Elbaz-Poulichet F. "Consequences of Treated Water Recycling as Regards Pharmaceuticals and Drugs in Surface and Ground Waters of a Medium-sized Mediterranean Catchment." *Environmental Science & Technology* **2006**, *40*(17):5282-5288.

Rabinowitz JR, Little SB, Laws SC, and Goldsmith M-R. "Molecular Modeling for Screening Environmental Chemicals for Estrogenicity: Use of the Toxicant-Target Approach." *Chemical Research in Toxicology* **2009**, *22*(9):1594-1602; doi:10.1021/tx900135x.

Rabolle M and Spliid NH. "Sorption and mobility of metronidazole, olaquindox, oxytetracycline and tylosin in soil." *Chemosphere* **2000**, *40*(7):715-722; doi:10.1016/S0045-6535(99)00442-7.

Rachon D, Rimoldi G, and Wuttke W. "In vitro effects of benzophenone-2 and octyl-methoxycinnamate on the production of interferon-gamma and interleukin-10 by murine splenocytes." *Immunopharmacology and Immunotoxicology* **2006**, *28*(3):501-510; doi:10.1080/08923970600927751.

Radford FR, Radford D, R., and Howard JD. "Contaminated medical waste disposal system and method." United States Patent 6488675, Application No. 418895 filed on 1999-10-15, 2002. http://www.patentstorm.us/patents/6488675.html.

Radhika P, Cabeza M, Bratoeff E, and Garcia G. "5□-reductase inhibition activity of steroids isolated from marine soft corals." *Steriods* **2004**, *69*(7):439-444; doi:10.1016/j.steroids.2004.04.001.

Radix P, Severin G, Schramm KW, and Kettrup A. "Reproduction disturbances of Brachionus calyciflorus (rotifer) for the screening of environmental endocrine disrupters." *Chemosphere* **2002**, *47*(10):1097-1101; doi:10.1016/S0045-6535(01)00335-6.

Radjenović J, Godehardt M, Petrović M, Hein A, Farré M, Jekel M*, et al.* "Evidencing Generation of Persistent Ozonation Products of Antibiotics Roxithromycin and Trimethoprim." *Environmental Science & Technology* **2009**, *43*(17):6808-6815; doi:10.1021/es900965a.

Radjenović J, Jelić A, Petrović M, and Barceló D. "Determination of pharmaceuticals in sewage sludge by pressurized liquid extraction (PLE) coupled to liquid chromatography-tandem mass spectrometry (LC-MS/MS)." *Analytical and Bioanalytical Chemistry* **2009**, *393*(6):1685-1695; doi:10.1007/s00216-009-2604-4.

Radjenovic J, Pérez S, Petrovic M, and Barceló D. "Identification and structural characterization of biodegradation products of atenolol and glibenclamide by liquid chromatography coupled to hybrid quadrupole time-of-flight and quadrupole ion trap mass spectrometry." *Journal of Chromatography A* **2008**, *1210*(2):142-153; doi:10.1016/j.chroma.2008.09.060.

Radjenovic J, Petrovic M, and Barcelo D. "Analysis of pharmaceuticals in wastewater and removal using a membrane bioreactor." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1365-1377; doi:10.1007/s00216-006-0883-6.

Radjenovic J, Petrovic M, and Barcelo D. "Advanced mass spectrometric methods applied to the study of fate and removal of pharmaceuticals in wastewater treatment." *Trends in Analytical Chemistry* **2007**, *26*(11):1132-1144; doi:10.1016/j.trac.2007.10.002.

Radjenovic J, Petrovic M, and Barceló D. "Fate and distribution of pharmaceuticals in wastewater and sewage sludge of the conventional activated sludge (CAS) and advanced membrane bioreactor (MBR) treatment." *Water Research* **2009**, *43*(3):831-841; doi:10.1016/j.watres.2008.11.043.

Radjenovic J, Petrovic M, and Barceló D. "Complementary mass spectrometry and bioassays for evaluating pharmaceutical-transformation products in treatment of drinking water and wastewater." *Trends in Analytical Chemistry* **2009**, *28*(5):562-580; doi:10.1016/j.trac.2009.02.006.

Radjenovic J, Petrovic M, Ventura F, and Barceló D. "Rejection of pharmaceuticals in nanofiltration and reverse osmosis membrane drinking water treatment." *Water Research* **2008**, *42*(14):3601-3610; doi:10.1016/j.watres.2008.05.020.

Radjenovic J, Sirtori C, Petrovic M, Barceló D, and Malato S. "Solar Photocatalytic degradation of persistent pharmaceuticals at pilot-scale: kinetics and characterization of major intermediate products." *Applied Catalysis B: Environmental* **2009**, *89*(1-2):255-264; doi:10.1016/j.apcatb.2009.02.013.

Radke M, Lauwigi C, Heinkele G, Műrdter TE, and Letzel M. "Fate of the Antibiotic Sulfamethoxazole and Its Two Major Human Metabolites in a Water Sediment Test." *Environmental Science & Technology* **2009**, *43*(9):3135-3141; doi:10.1021/es900300u.

Raeburn P, "Drug safety needs a second opinion." *Business Week*, 1999, 20 September: http://www.businessweek.com/datedtoc/1999/9938t.htm.

Ragain L. "Risk communication and media coverage of emerging contaminants " *American Water Works Association* **2009**, *101*(5):100-105.

Raghupathy P, Mathiyarasu J, Joseph J, Phani KLN, and Yegnaraman V. "Hydrotrope-driven disruption of micellar encapsulants for voltammetric detection of triclosan." *Journal of Electroanalytical Chemistry* **2005**, *584*(2):210-214; doi:10.1016/j.jelechem.2005.08.003.

Rahman MF, Yanful EK, and Jasim SY. "Endocrine disrupting compounds (EDCs) and pharmaceuticals and personal care products (PPCPs) in the aquatic environment: implications for the drinking water industry and global environmental health." *J Water Health* **2009**, *7*(2):224-243; doi:10.2166/wh.2009.021.

Rahman MF, Yanful EK, and Jasim SY. "Occurrences of endocrine disrupting compounds and pharmaceuticals in the aquatic environment and their removal from drinking water: Challenges in the context of the developing world." *Desalination* **2009**, *248*(1-3):578-585; doi:10.1016/j.desal.2008.05.105.

Rahman MH, Nonaka L, Tago R, and Suzuki S. "Occurrence of Two Genotypes of Tetracycline (TC) Resistance Gene tet(M) in the TC-Resistant Bacteria in Marine Sediments of Japan." *Environmental Science & Technology* **2008**, *42*(14):5055-5061; doi:10.1021/es702986y.

Rahman S, Khan R, Gupta V, and Uddin M. "Pharmacoenvironmentology – a component of pharmacovigilance." *Environmental Health* **2007**, *6*(1):20; doi:10.1186/1476-069X-6-20.

Rahman SZ. "Clinical Research Guidelines on Environmental Pharmacology." in Second Pre-Conference Travelling Symposium on Clinical Pharmacology: Some Current Issues in Clinical Research, IPSCON, Aligarh Muslim University, Aligarh, India, 27 August, 2009, 45 pp.

Rahman SZ and Khan RA. "Environmental pharmacology: a new discipline." *Indian Journal of Pharmacology* **2006**, *38*(4):229-230.

Rahman SZ, Khan RA, Gupta V, and Misbahuddin. "Pharmacoenvironmentology - Ahead of Pharmacovigilance." in *An Introduction to Environmental Pharmacology*, 1st ed.; Rahman SZ, Shahid M and Gupta V, Eds., Ibn Sina Academy; Aligarh, India, 2008, 2, pp 35-42.

Rahman SZ, Shahid M, and Gupta V, Eds., "An Introduction to Environmental Pharmacology." 1st ed.; Ibn Sina Academy, Aligarh, India, 2008, 249 pp.

Raich-Montiu J, Folch J, Compano R, Granados M, and Prat MD. "Analysis of trace levels of sulfonamides in surface water and soil samples by liquid chromatography-fluorescence." *Journal of Chromatography A* **2007**, *1172*(2):186-193; doi:10.1016/j.chroma.2007.10.010.

Raiman J, Hanninen K, Kontturi K, Murtomaki L, and Hirvonen J. "Drug adsorption in human skin: A streaming potential study." *Journal of Pharmaceutical Sciences* **2003**, *92*(12):2366-2372; doi:10.1002/jps.10516.

Raimondo S, Hemmer BL, Goodman LR, and Cripe GM. "Multigeneration Exposure of the Estuarine Sheepshead Minnow, Cyprinodon variegatus, to 17β-Estradol II. Population-level Effects Through Two Life Cycles." *Environmental Toxicology and Chemistry* **2009**, *28*(11):2409-2415; doi:10.1897/08-540.1.

Rajapakse N, Ong D, and Kortenkamp A. "Defining the Impact of Weakly Estrogenic Chemicals on the Action of Steroidal Estrogens." *Toxicological Sciences* **2001**, *60*(2):296-304; doi:10.1093/toxsci/60.2.296.

Rajapakse N, Silva E, and Kortenkamp A. "Combining xenoestrogens at levels below individual no-observed-effect concentrations dramatically enhances steroid hormone action." *Environmental Health Perspectives* **2002**, *110*(9):917-921.

Rajapakse N, Silva E, Scholze M, and Kortenkamp A. "Deviation from Additivity with Estrogenic Mixtures Containing 4-Nonylphenol and 4-tert-Octylphenol Detected in the E-SCREEN Assay." *Environmental Science & Technology* **2004**, *38*(23):6343-6352; doi:10.1021/es049681e.

Rakonczay Z, Duda E, Kaszaki J, Ivanyi B, Boros I, Lonovics J*, et al.* "The anti-inflammatory effect of methylprednisolone occurs down-stream of nuclear factor-[kappa]B DNA binding in acute pancreatitis." *European Journal of Pharmacology* **2003**, *464*(2-3):217-227; doi:10.1016/S0014-2999(03)01380-3.

Raldua D, Andre M, and Babin PJ. "Clofibrate and gemfibrozil induce an embryonic malabsorption syndrome in zebrafish." *Toxicology and Applied Pharmacology* **2008**, *228*(3):301-314; doi:10.1016/j.taap.2007.11.016.

Raldúa D and Babin PJ. "Simple, Rapid Zebrafish Larva Bioassay for Assessing the Potential of Chemical Pollutants and Drugs to Disrupt Thyroid Gland Function." *Environmental Science & Technology* **2009**, *43*(17):6844-6850; doi:10.1021/es9012454.

Raloff J. "Hormone mimics get harder to pigeonhole." *Science News* **1997**, *151*(17):254.

Raloff J. "Drugged waters - Does it matter that pharmaceuticals are turning up in water supplies." *Science News* **1998**, *153*(12):187-189.

Raloff J. "Medical waters: where ibuprofen goes - the finding of clofibric acid and diclofenac in the water of Swiss lakes, leads to the question of why ibuprofen was not being found." *Science News* **1999**, *156*(8):126.

Raloff J. "Pollutant waits to smite salmon at sea." *Science News* **1999**, *155*(19):3 pgs.

Raloff J. "Waterways carry antibiotic resistance." *Science News* **1999**, *155*(23):356.

Raloff J. "Lemon-scented products spawn pollutants." *Science News* **2000**, *158*(24):375.

Raloff J. "Excreted drugs: Something looks fishy." *Science News* **2000**, *157*(25):388.

Raloff J. "More waters test positive for drugs." *Science News* **2000**, *157*(14):212.

Raloff J. "Sometimes an antibiotic is much more." *Science News* **2001**, *159*(8):116-117.

Raloff J. "Hormones: here's the beef. Environmental concerns reemerge over steroids given to livestock - animal excretions release synthetic hormones into environment - Statistical Data Included." *Science News* **2002**, *161*(1):10-12.

Raloff J. "Pharm pollution: Excreted antibiotics can poison plants." *Science News* **2002**, *161*(26):406.

Raloff J. "Disposal concern focuses on wildlife: (Contraceptive-Patch worry)." *Science News* **2002**, *162*:245-246.

Raloff J. "Happy Fish." *Science News* **2006**, *170*(25):398.

Raloff J. "Aquatic Non-Scents Repercussions of water pollutants that mute smell." *Science News* **2007**, *171*(4):59-60.

Raloff J. "When not to flush." *Science News* **2008**.

Raloff J. "Antidepressants aren't for fish." *Science News* **2008**.

Raloff J. "Scientists find a soup of suspects while probing milk's link to cancer." *Science News* **2009**, *175*(7):5.

Raloff J. "Drugged money." *Science News* **2009**, *176*(6):9.

Raloff J. "Excreted tamiflu found in rivers." *Sicence News* **2009**.

Raloff J. "Beefy hormones: New routes of exposure." *Science News* **2009**, *25 November*.

Ramamoorthy K, Wang F, Chen I-C, Safe S, Norris JD, McDonnell DP*, et al.* "Potency of Combined Estrogenic Pesticides." *Science* **1997**, *275*(5298):405-406; doi:10.1126/science.275.5298.405.

Raman DR, Layton AC, Moody LB, Easter JP, Sayler GS, Burns RT*, et al.* "Degradation of estrogens in dairy waste solids: Effects of acidification and temperature." *Transactions of the ASAE* **2001**, *44*(6):1881-1888.

Raman DR, Williams EL, Layton AC, Burns RT, Easter JP, Daugherty AS*, et al.* "Estrogen content of dairy and swine wastes." *Environmental Science & Technology* **2004**, *38*(13):3567-3573; doi:10.1021/es0353208.

Ramell CT, Sinclair CJ, and Wormald S. "Cypermethrin loss from sheep fording a stream." Central Science Laboratory, CSL Project N3MD, San Hutton, York (UK), 2007, http://randd.defra.gov.uk/Document.aspx?Document=VM02502_5469_FRP.pdf.

Ramessar K, Sabalza M, Capell T, and Christou P. "Maize plants: An ideal production platform for effective and safe molecular pharming." *Plant Science - Limerick* **2008**, *174*(4):409-419.

Ramirez AJ. "Determination of Pharmaceuticals and Personal Care Products in Fish Using High Performance Liquid Chromatography-Tandem Mass Spectrometry and Gas Chromatography-Mass Spectrometry." Doctoral Dissertation, Baylor University, Department of Chemistry and Biochemistry, Waco, TX, 2007. 158 pp; https://beardocs.baylor.edu/handle/2104/5119, https://beardocs.baylor.edu/bitstream/2104/5119/1/Alejandro_Ramirez_phd.pdf.

Ramirez AJ, Brain RA, Usenko S, Mottaleb MA, Donnell JG, Stahl LL*, et al.* "Occurrence of pharmaceuticals and personal care products (PPCPs) in fish: Results of a national pilot study in the U.S." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2587-2597; doi:10.1897/08-561.1.

Ramirez AJ, Mottaleb MA, Brooks BW, and Chambliss CK. "Analysis of Pharmaceuticals in Fish Using Liquid Chromatography-Tandem Mass Spectrometry." *Analytical Chemistry* **2007**, *79*(8):3155-3163.

Ramos Martos N, Molina Diaz A, Navalon A, De Orbe Paya I, and Capitan Vallvey LF. "Simultaneous spectrofluorimetric determination of (acetyl)salicylic acid, codeine and pyridoxine in pharmaceutical preparations using partial least-squares multivariate calibration." *Journal of Pharmaceutical and Biomedical Analysis* **2000**, *23*(5):837-844; doi:10.1016/S0731-7085(00)00388-5.

RAMP "Donate your unused HIV medicines and save lives." Web Page maintained by Recycled AIDS Medicine Program 2008, http://www.rampusa.org/home/index.htm.

Ramsey ED, Minty B, and Rees AT. "Drugs in water: Analysis at the part-per-billion level using direct supercritical fluid extraction of aqueous samples coupled on-line with ultraviolet-visible diode-array liquid chromatography-mass spectrometry." *Analytical Communications* **1997**, *34*:261-264.

Ramskov T, Selck H, Salvito D, and Forbes VE. "Individual- and population-level effects of the synthetic musk, HHCB, on the deposit-feeding polychaete Capitella sp. I." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2695-2705; doi:10.1897/08-522.1.

Rand GM. "Appendix C: Aquatic Toxicity Testing Studies Conceptual Plan." Year Unknown, 128 pp; http://www.miamidade.gov/wasd/library/Conceptual_Plan/APP_C.pdf.

Randall DJ, Connell DW, Yang R, and Wu SS. "Concentrations of persistent lipophilic compounds in fish are determined by exchange across the gills, not through the food chain." *Chemosphere* **1998**, *37*(7):1263-1270; doi:10.1016/S0045-6535(98)00124-6.

Randon KA. "The risk of pharmaceutical drugs in drinking water." Masters Dissertation, Royal Roads University, Victoria, British Columbia, Canada, 2007. 159 pp.

Rang HP, Dale MM, Ritter JM, and Gardner P. "Pharmacology." Churchill Livingstone, 2001, 4th ed., 856 pp.

Rankouhi TR, Sanderson JT, van Holsteijn I, van Leeuwen C, Vethaak AD, and M. vdB. "Effects of natural and synthetic estrogens and various environmental contaminants on vitellogenesis in fish primary hepatocytes: comparison of bream (Abramis brama) and carp (Cyprinus carpio)." *Toxicological Sciences* **2004**, *81*(1):90-102; doi:10.1093/toxsci/kfh176.

Rao V, Dhar RL, and Subrahmanyam K. "Assessment of contaminant migration in groundwater from an industrial development area, Medak district, Andhra Pradesh, India." *Water, Air, & Soil Pollution* **2001**, *128*(3-4):369-389; doi:10.1023/A:1010307026457.

Rapaport RA. "Prediction of consumer product chemical concentrations as a function of publicly owned treatment works treatment type and river dilution." *Environmental Toxicology and Chemistry* **1988**, *7*(2):107-115; doi:10.1897/1552-8618(1988)7[107:POCPCC]2.0.CO;2.

Rasko DA, Moreira CG, Li DR, Reading NC, Ritchie JM, Waldor MK*, et al.* "Targeting QseC Signaling and Virulence for Antibiotic Development." *Science* **2008**, *321*(5892):1078-1080; doi:10.1126/science.1160354.

Rasmussen HT, McDonough R, Gargiullo RJ, and McPherson BP. "Determination of triclosan in human dental plaque by gas chromatography with atomic emission detection." *Journal of High Resolution Chromatography* **1996**, *19*(6):359-361; doi:10.1002/jhrc.1240190610.

Rathner M and Sonneborn M. "Biologically active oestrogens in portable water and effluents." *Forum Stadte-Hygiene* **1979**, *30*:45-49.

Rattner BA, Whitehead MA, Gasper G, Meteyer CU, Link WA, Taggart MA*, et al.* "Apparent tolerance of turkey vultures (cathartes aura) to the non-steroidal anti-inflammatory drug diclofenac." *Environmental Toxicology and Chemistry* **2008**, *27*(11):2341-2345;

doi:10.1897/08-123.1.

Rau EH, Alaimo RJ, Ashbrook PC, Austin SM, Borenstein N, Evans MR, *et al.* "Minimization and management of wastes from biomedical research." *Environmental Health Perspectives* **2000**, *108*(6):953-977.

Rau Embry M, Billiard SM, and Di Giulio RT. "Lack of p53 induction in fish cells by model chemotherapeutics." *Oncogene* **2006**, *25*(14):2004-2010; doi:10.1038/sj.onc.1209238.

Rauch-Williams T, Hoppe-Jones C, and Drewes JE. "The Role of Organic Matter in the Removal of Emerging Trace Organic Chemicals during Managed Aquifer Recharge." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.08.027.

Ravina M, Campanella L, and Kiwi J. " Accelerated mineralization of the drug diclofenac via Fenton reactions in a concentric photo – reactor." *Water Research* **2002**, *36*(14):3553-3560; doi:10.1016/S0043-1354(02)00075-1.

Rawson CA, Lim RP, and Warne MSJ. "Skeletal morphology and maturation of male Gambusia holbrooki exposed to sewage treatment plant effluent." *Ecotoxicology and Environmental Safety* **2008**, *70*(3):453-461; doi:10.1016/j.ecoenv.2007.12.012.

Ray DE and Richards PG. "The potential for toxic effects of chronic, low-dose exposure to organophosphates." *Toxicology Letters* **2001**, *120*(1-3):343-351; doi:10.1016/S0378-4274(01)00266-1.

RDI "R & D Insight (RDI) Database Guide." Adis International 2008; http://www.ovid.com/site/products/ovidguide/rdidb.htm.

Rebmann A, Wauschkuhn C, and Waizenegger W. "Changing importance of musk aroma compounds as fragrance ingredients." *Deutsche Lebensmittel-Rundschau* **1997**, *93*(8):251-255.

Rechenberg B. "Legal Requirements for Sustainable Development." in *A Healthy Future- Pharmaceuticals in a Sustainable Society*, collaborative publication of Apoteket AB, MistraPharma, and Stockholm County Council; Sweden, 2009, Chapter 10, pp 180-195; http://www.epa.gov/nerlesd1/bios/daughton/Pharmaceuticals-Sustainability-2009.pdf.

Reddersen K. "Das Verhalten von Arzneimittelrückständen im Wasserkreislauf Berlins." Doctoral Dissertation, Universität Berlin, Berlin, Germany, 2004. 327 pp; http://deposit.ddb.de/cgi-bin/dokserv?idn=972691944.

Reddersen K and Heberer T. "Formation of an artifact of diclofenac during acidic extraction of environmental water samples." *Journal of Chromatography A* **2003**, *1011*(1-2):221-226; doi:10.1016/S0021-9673(03)01173-7.

Reddersen K and Heberer T. "Multi-compound methods for the detection of pharmaceutical residues in various waters applying solid phase extraction (SPE) and gas chromatography with mass spectrometric (GC-MS) detection." *Journal of Separation Science* **2003**, *26*(15-16):1443-1450; doi:10.1002/jssc.200301533.

Reddersen K, Heberer T, and Dunnbier U. "Identification and significance of phenazone drugs and their metabolites in ground- and drinking water." *Chemosphere* **2002**, *49*:539-544; doi:10.1016/S0045-6535(02)00387-9.

Redding AM, Cannon FS, Snyder SA, and Vanderford BJ. "A QSAR-like Analysis of the Adsorption of Endocrine Disruptors, Pharmaceuticals, and Personal Care Products on Modified Activated Carbons." *Water Research* **2009**, *43*(15):3849-3861; doi:10.1016/j.watres.2009.05.026.

Reddy CM. "Comment on "Occurrence and Concentrations of Benzotriazole UV Stabilizers in Marine Organisms and Sediments from the Ariake Sea, Japan"." *Environmental Science & Technology* **2009**, *43*(20):7998-7998; doi:10.1021/es902536u.

Reddy MM, Reddy MB, and Reddy CF. "Scientific advances provide opportunities to improve pediatric environmental health." *The Journal of Pediatrics* **2004**, *145*(2):153-156; doi:10.1016/j.jpeds.2004.03.044.

Reddy S and Brownawell BJ. "Analysis of estrogens in sediment from a sewage-impacted urban estuary using high-performance liquid chromatography/time-of-flight mass spectrometry." *Environmental Toxicology and Chemistry* **2005**, *24*(5):1041-1047; doi:10.1897/04-167R.1.

Reddy S, Iden CR, and Brownawell BJ. "Analysis of steroid conjugates in sewage influent and effluent by liquid chromatography-tandem mass spectrometry." *Analytical Chemistry* **2005**, *77*(21):7032-7038; doi:10.1021/ac050699x.

Redfern WS, Wakefield ID, Prior H, Pollard CE, Hammond TG, and Valentin JP. "Safety pharmacology - a progressive approach." *Fundamental and Clinical Pharmacology* **2002**, *16*(3):161-173; doi:10.1046/j.1472-8206.2002.00098.x.

Redshaw C, Cooke M, Talbot H, McGrath S, and Rowland S. "Low biodegradability of fluoxetine HCl, diazepam and their human metabolites in sewage sludge-amended soil." *Journal of Soils and Sediments* **2008**, *8*(4):217-230; doi:10.1007/s11368-008-0024-2.

Redshaw CH, Wootton VG, and Rowland SJ. "Uptake of the pharmaceutical Fluoxetine Hydrochloride from growth medium by Brassicaceae." *Phytochemistry* **2008**, *69*(13):2510-2516; doi:10.1016/j.phytochem.2008.06.018.

Reed LA, Siewicki TC, and Shah JC. "Pharmacokinetics of oxytetracycline in the white shrimp, Litopenaeus setiferus." *Aquaculture* **2004**, *232*(1-4):11-28; doi:10.1016/S0044-8486(03)00451-4.

Reemtsma T. "Liquid chromatography-mass spectrometry and strategies for trace-level analysis of polar organic pollutants." *Journal of Chromatography A* **2003**, *1000*(1-2):477-501; doi:10.1016/S0021-9673(03)00507-7.

Reemtsma T and Jekel M, Eds., "Organic pollutants in the water cycle." 1st ed.; Wiley-VCH, Weinheim, Germany, 2006, 368 pp; doi:10.1002/352760877X; http://www3.interscience.wiley.com/cgi-bin/bookhome/112729019/?CRETRY=1&SRETRY=0.

Reemtsma T, Miehe U, Duennbier U, and Jekel M. "Polar pollutants in municipal wastewater and the water cycle: Occurrence and removal of benzotriazoles." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.07.016.

Reemtsma T and Quintana JB. "Analytical methods for polar pollutants." in *Organic Pollutants in the Water Cycle - Properties, occurrence, analysis and Environ relevance of polar compounds*, Reemtsma T and Jekel M, Eds., Wiley-VCH Verlag GmbH & Co. KGaA; Weinheim, Germany, 2006, pp 1-40.

Reemtsma T, Weiss S, Mueller J, Petrovic M, Gonzalez S, Barcelo D*, et al.* "Polar Pollutants Entry into the Water Cycle by Municipal Wastewater: A European Perspective." *Environmental Science & Technology* **2006**, *40*(17):5451-5458.

Reepmeyer JC, Brower JF, and Ye H. "Separation and detection of the isomeric equine conjugated estrogens, equilin sulfate and $\Delta^{8,9}$-dehydroestrone sulfate, by liquid chromatography-electrospray-mass spectrometry using carbon-coated zirconia and porous graphitic carbon stationary phases." *Journal of Chromatography A* **2005**, *1083*(1-2):42-51; doi:10.1016/j.chroma.2005.05.092.

Rees W and Wackernagel M. "Urban ecological footprints: Why cities cannot be sustainable--And why they are a key to sustainability." *Environmental Impact Assessment Review* **1996**, *16*(4-6):223-248; doi:10.1016/S0195-9255(96)00022-4.

Reeves AD and Patton D. "Faecal sterols as indicators of sewage contamination in estuarine sediments of the Tay Estuary, Scotland: an extended baseline survey." *Hydrology and Earth System Sciences* **2005**, *9*(1/2):81-94.

Refsdal AO. "To treat or not to treat: a proper use of hormones and antibiotics." *Animal Reproduction Science* **2000**, *60-61*:109-119.

Regueiro J, Becerril E, Garcia-Jares C, and Llompart M. "Trace analysis of parabens, triclosan and related chlorophenols in water by headspace solid-phase microextraction with in situ derivatization and gas chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(23):4693-4702; doi:10.1016/j.chroma.2009.04.025.

Regueiro J, Garcia-Jares C, Llompart M, Lamas JP, and Cela R. "Development of a method based on sorbent trapping followed by solid-phase microextraction for the determination of synthetic musks in indoor air." *Journal of Chromatography A* **2009**, *1216*(14):2805-2815; doi:10.1016/j.chroma.2008.09.062.

Regueiro J, Llompart M, Garcia-Jares C, and Cela R. "Development of a high-throughput method for the determination of organochlorinated compounds, nitromusks and pyrethroid insecticides in indoor dust." *Journal of Chromatography A* **2007**, *1174*(1-2):112-124; doi:10.1016/j.chroma.2007.08.052.

Regueiro J, Llompart M, Garcia-Jares C, Garcia-Monteagudo JC, and Cela R. "Ultrasound-assisted emulsification-microextraction of emergent contaminants and pesticides in environmental waters." *Journal of Chromatography A* **2008**, *1190*(1-2):27-38; doi:10.1016/j.chroma.2008.02.091.

Regueiro J, Llompart M, Psillakis E, Garcia-Monteagudo JC, and Garcia-Jares C. "Ultrasound-assisted emulsification-microextraction of phenolic preservatives in water." *Talanta* **2009**, *79*(5):1387-1397; doi:10.1016/j.talanta.2009.06.015.

Reguera IP, Rubio MG, and Diaz AM. "Native fluorescence flow-through optosensor for the fast determination of diphenhydramine in pharmaceuticals." *Analytical Sciences* **2004**, *20*(5):799-803.

Rehnberg B, Bates E, Smith R, Sloley B, and Richardson J. "Brain benzodiazepine receptors in fathead minnows and the behavioral response to alarm pheromone." *Pharmacology, Biochemistry and Behavior* **1989**, *33*(2):435-442.

Reif R, Suarez S, Omil F, and Lema JM. "Fate of pharmaceuticals and cosmetic ingredients during the operation of a MBR treating sewage." *Desalination* **2008**, *221*(1-3):511-517; doi:10.1016/j.desal.2007.01.111.

Reig M and Toldrá F. "Veterinary drug residues in meat: Concerns and rapid methods for detection." *Meat Science* **2008**, *78*(1-2):60-67; doi:10.1016/j.meatsci.2007.07.029.

Reimers RS, Reinhart DR, Sharma VK, and Austin GC. "The Application of the Green Oxidant Ferrate for Wastewater Disinfection and Reuse to be utilized for Wetland Restoration, Irrigation and Groundwater Recharge." *Proceedings of the Water Environment Federation* **2007**, *2007*:413-423; doi:10.2175/193864707787932595.

Reimschuessel R, Stewart L, Squibb E, Hirokawa K, Brady T, Brooks D*, et al.* "Fish Drug Analysis—Phish-Pharm: A Searchable Database of Pharmacokinetics Data in Fish." *The AAPS Journal* **2005**, *7*(2 (Article 30)):E288-E327; doi:10.1208/aapsj070230.

Reinders A, Sivitz AB, Hsi A, Grof CPL, Perrous JM, and Ward JM. "Sugarcane ShSUT1: analysis of sucrose transport activity and inhibition by sucralose." *Plant, Cell & Environment* **2006**, *29*(10):1871-1880; doi:10.1111/j.1365-3040.2006.01563.x.

Reineke N, Bester K, Huhnerfuss H, Jastorff B, and Weigel S. "Bioassay-directed chemical analysis of River Elbe surface water including large volume extractions and high performance fractionation." *Chemosphere* **2002**, *47*(7):717-723; doi:10.1016/S0045-6535(01)00340-X.

Reiner JL, Berset JD, and Kannan K. "Mass flow of polycyclic musks in two wastewater treatment plants." *Archives of Environmental Contamination and Toxicology* **2007**, *52*(4):451-457; doi:10.1007/s00244-006-0203-3.

Reiner JL and Kannan K. "A survey of polycyclic musks in selected household commodities from the United States." *Chemosphere* **2006**, *62*(6):867-873; doi:10.1016/j.chemosphere.2005.10.006.

Reiner JL, Wong CM, Arcaro KF, and Kannan K. "Synthetic musk fragrances in human milk from the United States." *Environmental Science & Technology* **2007**, *41*(11):3815-3820; doi:10.1021/es063088a.

Reinhard M, Montgomery-Brown J, Louie JS, and Gross B. "From effluent to new water: Performance evaluation and quality assurance." *Chimia* **2003**, *57*(9):561-566.

Reinhold DM. "Fate of fluorinated organic pollutants in aquatic plant systems: studies with lemnaceae and lemnaceae tissue cultures." Doctoral Dissertation, Georgia Institute of Technology, Civil and Environmental Engineering, 2007. 264 pp; http://hdl.handle.net/1853/26506.

Reinstorf F, Strauch G, Schirmer K, Glaser HR, Moder M, Wennrich R*, et al.* "Mass fluxes and spatial trends of xenobiotics in the waters of the city of Halle, Germany." *Environmental Pollution* **2008**, *152*(2):452-460; doi:10.1016/j.envpol.2007.05.033.

Reinthaler FF, Posch J, Feierl G, Wust G, Haas D, Ruckenbauer G*, et al.* "Antibiotic resistance of E. coli in sewage and sludge." *Water Research* **2003**, *37*(8):1685-1690; doi:10.1016/S0043-1354(02)00569-9.

Reis Filho RW, Coutinho de Araujo J, and Vieira EM. "Hormônios sexuais estrógenos: contaminantes bioativos [Sexual estrogenic hormones: Bioactive contaminants]." *Quimica Nova* **2006**, *29*(4):817-822; doi:10.1590/S0100-40422006000400032.

Reisch MS. "Pure and sweet - Consumer demand helps natural and active ingredients gain headway in a wide variety of personal care formulations." *Chemical & Engineering News* **2001**, *79*(16):23-28.

Reisch MS. "Shining a light on cosmetics - Concern about organic sunscreens aired at In-Cosmetics show in Düsseldorf." *Chemical & Engineering News* **2001**, *79*(20):26.

Reisch MS. "Spotlight on sunscreens." *Chemical & Engineering News* **2001**, *79*(49):25-29.

Reisch MS. "Serving up foods with a benefit." *Chemical & Engineering News* **2001**, *79*(24):12-14.

Reisch MS. "Designer cosmetics - Ingredients makers take lessons from biotechnology to mastermind the latest in personal care." *Chemical & Engineering News* **2002**, *80*(12):16-21.

Reisch MS. "Seeking Sustainability: Ingredient makers strive to understand and satisfy cosmetic labeling promises." *Chemical & Engineering News* **2008**, *86*(19):15-20.

Reiss R, Lewis G, and Griffin J. "An ecological risk assessment for triclosan in the terrestrial environment." *Environmental*

Toxicology and Chemistry **2009**, *28*(7):1546-1556; doi:10.1897/08-250.1.

Reiss R, Mackay N, Habig C, and Griffin J. "A Probabilistic Ecological Risk Assessment for Triclosan." presented at SETAC Baltimore 2001, SETAC, at Baltimore, Maryland, 2001; http://abstracts.co.allenpress.com/pweb/setac2001/document/36087.

Reiss R, Mackay N, Habig C, and Griffin J. "An ecological risk assessment for triclosan in lotic systems following discharge from wastewater treatment plants in the United States." *Environmental Toxicology and Chemistry* **2002**, *21*(11):2483-2492; doi:10.1897/1551-5028(2002)021<2483:AERAFT>2.0.CO;2.

Reiter L, Falk H, Groat C, and Coussens CM, Eds., "From Source Water to Drinking Water: Workshop Summary." National Academies Press, Washington, DC, 2004, 126 pp; http://books.nap.edu/catalog/11142.html.

Reith DM and Cannell GR. "An hplc assay for carbamazepine phase I metabolites and their glucuronides in urine." *Journal of Liquid Chromatography & Related Technologies* **1999**, *22*(12):1907 - 1918; doi:10.1081/JLC-100101775.

Relyea R. "A cocktail of contaminants: how mixtures of pesticides at low concentrations affect aquatic communities." *Oecologia* **2009**, *159*(2):363-376; doi:10.1007/s00442-008-1213-9.

Remberger M, Wiklund P, Woldegiorgis A, Viktor T, Kaj L, and Brorström-Lundén E. "Anti-inflammatory and analgesic drugs in WWTP influent and effluent streams and the occurrence in the aquatic environment." September, 2009, 38 pp; http://www3.ivl.se/rapporter/pdf/B1810.pdf.

Rempel MA, Reyes J, Steinert S, Hwang W, Armstrong J, Sakamoto K*, et al.* "Evaluation of relationships between reproductive metrics, gender and vitellogenin expression in demersal flatfish collected near the municipal wastewater outfall of Orange County, California, USA." *Aquatic Toxicology* **2006**, *77*(3):241-249; doi:10.1016/j.aquatox.2005.12.007.

Rempel-Hester MA, Hong H, Wang Y, Deng X, Armstrong J, Gully J*, et al.* "Site-specific effects of 17β-estradiol in hornyhead turbot (Pleuronichthys verticalis) collected from a wastewater outfall and reference location." *Environmental Research* **2009**, *109*(5):552-558; doi:10.1016/j.envres.2009.02.006.

Ren HY, Ji SL, Ahmad NUD, Dao W, and Cui CW. "Degradation characteristics and metabolic pathway of 17α-ethynylestradiol by Sphingobacterium sp JCR5." *Chemosphere* **2007**, *66*(2):340-346; doi:10.1016/j.chemosphere.2006.04.064.

Ren X, Lee YJ, Han HJ, and Kim IS. "Cellular effect evaluation of micropollutants using transporter functions of renal proximal tubule cells." *Chemosphere* **2009**, *77*(7):968-974; doi:10.1016/j.chemosphere.2009.08.012.

Renew JE and Huang C-H. "Simultaneous determination of fluoroquinolone, sulfonamide, and trimethoprim antibiotics in wastewater using tandem solid phase extraction and liquid chromatography-electrospray mass spectrometry." *Journal of Chromatography* **2004**, *1042*(1-2):113-121; doi:10.1016/j.chroma.2004.05.056.

Renner R. "Results of low-dose exposure research may challenge the theoretical basis of toxicology." *Environmental Science & Technology* **1998**, *32*(21):485A-486A.

Renner R. "Swine farms contribute to antibiotic resistance." *Applied and Environmental Microbiology* **2001**, *67*(4):1494-1502; doi:10.1021/es012413l.

Renner R. "Do cattle growth hormones pose an environmental risk?" *Environmental Science & Technology* **2002**, *36*(9):194A-197A.

Renner R, "Drams of drugs and dregs - Excited chemicals pollute US streams." *Scientific American*, 2002, 286 29 pp.

Renner R. "Drug mixtures prove harmful." *Environmental Science & Technology* **2002**, *36*(13):268A-269A; doi:10.1021/es0223473.

Renner R. "Tamiflu survives sewage treatment." *Environmental Science & Technology* **2007**, *41*(22):7591.

Renner R. "A Tale of Two Fish." *Environmental Science & Technology* **2008**, *42*:6784-6785; doi:10.1021/es801813m.

Renner R. "Sex-changing fish: caused by contamination or nature?" *Environmental Science & Technology* **2009**, *43*(6):1663-1664; doi:10.1021/es8036912.

Renou S, Thomas JS, Aoustin E, and Pons MN. "Influence of impact assessment methods in wastewater treatment LCA." *Journal of Cleaner Production* **2008**, *16*(10):1098-1105; doi:10.1016/j.jclepro.2007.06.003.

Renwick AG and Walton K. "The use of surrogate endpoints to assess potential toxicity in humans." *Toxicology Letters* **2001**, *120*(1-3):97-110; doi:10.1016/S0378-4274(01)00288-0.

Returns Industry Association. "Guidelines for reverse distributors - Minimum Federal Regulatory Standards." Capital Returns, November, 1999, 15 pp.

Reungoat J, Macova M, Escher BI, Carswell S, Mueller JF, and Keller J. "Removal of micropollutants and reduction of biological activity in a full scale reclamation plant using ozonation and activated carbon filtration." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.09.048.

Reuters. "Researchers find estrogen-like chemicals in toiletries." Boston Globe, 1998, 8 October http://www.boston.com/globe.

Reverte S, Borrull F, Pocurull E, and Maria Marce R. "Determination of antibiotic compounds in water by solid-phase extraction-high-performance liquid chromatography-(electrospray) mass spectrometry." *Journal of Chromatography A* **2003**, *1010*(2):225-232; doi:10.1016/S0021-9673(03)01064-1.

Reyes C, Fernandez J, Freer J, Mondaca MA, Zaror C, Malato S*, et al.* "Degradation and inactivation of tetracycline by TiO2 photocatalysis." *Journal of Photochemistry and Photobiology A: Chemistry* **2006**, *184*(1-2):141-146; doi:10.1016/j.jphotochem.2006.04.007.

Reynolds KA, "Pharmaceuticals in Drinking Water Supplies." *Water Conditioning & Purification International* 2003, 45 6: http://www.wcponline.com/column.cfm?T=T&ID=2199, http://www.eaquasolutions.com/pdf/pharminwater.pdf.

Rhind SM, Kyle CE, Mackie C, and McDonald L. "Accumulation of endocrine disrupting compounds in sheep fetal and maternal liver tissue following exposure to pastures treated with sewage sludge." *Journal of Environmental Monitoring* **2009**, *11*(8):1469-1476; doi:10.1039/b902085c.

Rhind SM, Kyle CE, Telfer G, Duff EI, and Smith A. "Alkyl phenols and diethylhexyl phthalate in tissues of sheep grazing pastures fertilized with sewage sludge or inorganic fertilizer." *Environmental Health Perspectives* **2005**, *113*(4):447-453; doi:10.1289/ehp.7469.

Ribeiro C, udia, Tiritan ME, Rocha E, and Rocha MJ. "Development and Validation of a HPLC-DAD Method for Determination of Several Endocrine Disrupting Compounds in Estuarine Water." *Journal of Liquid Chromatography & Related Technologies* **2007**, *30*(17):2729-2746; doi:10.1080/10826070701560652.

Rice G, Teuschler LK, Speth TF, Richardson SD, Miltner RJ, Schenck KM*, et al.* "Integrated Disinfection By-Products Research: Assessing Reproductive and Developmental Risks Posed by Complex Disinfection By-Product Mixtures." *Journal of Toxicology and Environmental Health, Part A: Current Issues* **2008**, *71*(17):1222-1234; doi:10.1080/15287390802182649.

Rice SL. "Environmental Analysis of Selected Estrogens and Androgens: Applying Ultra-Performance Liquid Chromatography and Combating Matrix Interference." Masters Dissertation, The College of William and Mary, Virginia, 2009. 95 pp; http://web.vims.edu/library/Theses/Rice09.pdf.

Rice SL and Hale RC. "Parameters for Ultra-Performance Liquid Chromatographic/Tandem Mass Spectrometric Analysis of Selected Androgens versus Estrogens in Aqueous Matrices." *Analytical Chemistry* **2009**, *81*(16):6716-6724; doi:10.1021/ac900134m.

Rice SL and Mitra S. "Microwave-assisted solvent extraction of solid matrices and subsequent detection of pharmaceuticals and personal care products (PPCPs) using gas chromatography-mass spectrometry." *Analytica Chimica Acta* **2007**, *589*(1):125-132; doi:10.1016/j.aca.2007.02.051.

Richards SM and Cole SE. "A toxicity and hazard assessment of fourteen pharmaceuticals to Xenopus laevis larvae." *Ecotoxicology* **2006**, *15*(8):647-656; doi:10.1007/s10646-006-0102-4.

Richards SM, Kelley SE, and Hanson ML. "Zooplankton Chitobiase Activity as an Endpoint of Pharmaceutical Effect." *Archives of Environmental Contamination and Toxicology* **2008**, *54*(4):637-644; doi:10.1007/s00244-007-9062-9.

Richards SM, Wilson CJ, Johnson DJ, Castle DM, Lam M, Mabury SA*, et al.* "Effects of pharmaceutical mixtures in aquatic microcosms." *Environmental Toxicology and Chemistry* **2004**, *23*(4):1035-1042; doi:10.1897/02-616.

Richardson BJ, Lam PKS, and Martin M. "Emerging chemicals of concern: Pharmaceuticals and personal care products (PPCPs) in Asia, with particular reference to Southern China." *Marine Pollution Bulletin* **2005**, *50*(9):913-920; doi:10.1016/j.marpolbul.2005.06.034.

Richardson J. "Maine pilots eco-friendly way to dispose of drugs." Portland Press Herald Main Sunday Telegram, 2008, 29 December http://pressherald.mainetoday.com/story.php?id=230047&ac=PHnws.

Richardson ML and Bowron JM. "The fate of pharmaceutical chemicals in the aquatic environment." *Journal of Pharmacy and Pharmacology* **1985**, *37*(1):1-12.

Richardson SD. "Mass spectrometry in environmental sciences." *Chemical Reviews* **2001**, *101*(2):211-254; doi:10.1021/cr990090u.

Richardson SD. "Environmental mass spectrometry: Emerging contaminants and current issues." *Analytical Chemistry* **2002**, *74*(1212):2719-2741; doi:10.1021/ac800660d.

Richardson SD. "Disinfection by-products and other emerging contaminants in drinking water." *Trends in Analytical Chemistry* **2003**, *22*(10):666-684; doi:10.1016/S0165-9936(03)01003-3.

Richardson SD. "Water Analysis: Emerging Contaminants and Current Issues." *Analytical Chemistry* **2007**, *79*(12):4295-4324; doi:10.1021/ac070719q.

Richardson SD. "Environmental mass spectrometry: Emerging contaminants and current issues." *Analytical Chemistry* **2008**, *80*(12):4373-4402; doi:10.1021/ac800660d.

Richardson SD. "Water Analysis: Emerging Contaminants and Current Issues." *Analytical Chemistry* **2009**, *81*(12):4645-4677; doi:10.1021/ac9008012.

Richardson SD and Ternes TA. "Water Analysis: Emerging Contaminants and Current Issues." *Analytical Chemistry* **2005**, *77*(12):3807-3838; doi:10.1021/ac058022x.

Richman C and Castensson S. "Impact of waste pharmaceuticals: an environmental hazard or "greenwash"?" *The Pharmaceutical Journal* **2008**, *280*:335-342.

Richmond RH. "Environmental protection: applying the precautionary principle and proactive regulation to biotechnology." *Trends in Biotechnology* **2008**, *26*(8):460-467; doi:10.1016/j.tibtech.2008.05.003.

Richter D, Massmann G, and Dunnbier U. "Behaviour and biodegradation of sulfonamides (p-TSA, o-TSA, BSA) during drinking water treatment." *Chemosphere* **2008**, *71*(8):1574-1581; doi:10.1016/j.chemosphere.2007.11.026.

Richter D, Massmann G, and Dünnbier U. "Identification and significance of sulphonamides (p-TSA, o-TSA, BSA) in an urban water cycle (Berlin, Germany)." *Water Research* **2008**, *42*(6-7):1369-1378; doi:10.1016/j.watres.2007.10.003.

Richter D, Massmann G, Taute T, and Duennbier U. "Investigation of the fate of sulfonamides downgradient of a decommissioned sewage farm near Berlin, Germany." *Journal of Contaminant Hydrology* **2009**, *106*(3-4):183-194; doi:10.1016/j.jconhyd.2009.03.001.

Richter MK, Sander M, Krauss M, Christl I, Dahinden MG, Schneider MK*, et al.* "Cation Binding of Antimicrobial Sulfathiazole to Leonardite Humic Acid." *Environmental Science & Technology* **2009**, *43*(17):6632-6638; doi:10.1021/es900946u.

Richter O, Kullmer C, and Kreuzig R. "Metabolic Fate Modeling of Selected Human Pharmaceuticals in Soils." *CLEAN - Soil, Air, Water* **2007**, *35*(5):495-503; doi:10.1002/clen.200720015.

Ricking M, Schwarzbauer J, and Franke S. "Molecular markers of anthropogenic activity in sediments of the Havel and Spree Rivers (Germany)." *Water Research* **2003**, *37*(11):2607-2617; doi:10.1016/S0043-1354(03)00078-2.

Ricking M, Schwarzbauer J, Hellou J, Svenson A, and Zitko V. "Polycyclic aromatic musk compounds in sewage treatment plant effluents of Canada and Sweden--first results." *Marine Pollution Bulletin* **2003**, *46*(4):410-417; doi:10.1016/S0025-326X(02)00480-0.

Rico A. "Chemo-defence system." *Comptes Rendus de l'Academie des Sciences Series III Sciences de la Vie* **2001**, *324*(2):97-106; doi:10.1016/S0764-4469(00)01281-6.

Riddick L, Gentry EL, McDaniel M, and Brumley WC. "Evaluation of N-methyl-N-tert-butyldimethylsilyl trifluoroacetamide for environmental analysis under both EIMS and electron capture NICIMS conditions and comparison to trimethylsilyl reagents under EIMS." *International Journal of Environmental Analytical Chemistry* **2006**, *86*(5):299-312.

Ridout S, Waters WE, and George CF. "Knowledge of and attitudes to medicines in the Southampton community." *British Journal of*

Clinical Pharmacology **1986**, *21*(6):701-712.

Riechermann J and Christakos G. "Sewage epidemiology - assessing community health factors by wastewater monitoring." *Geophysical Research Abstracts* **2008**, *10*(EGU2008-A-11908).

Rieckermann J. "On the occurrence and fate of illicit substances in sewer systems." in *Assessing illicit drugs in wastewater: Potential and limitations of a new monitoring approach*, European Monitoring Centre for Drugs and Drug Addiction (EMCDDA); Lisbon, Portugal, 2008, Chapter 4, pp 53-72; http://www.emcdda.europa.eu/attachements.cfm/att_65636_EN_EMCDDA-insights9-wastewater.pdf.

Rieckermann J, Borsuk M, Reichert P, and Gujer W. "A novel method for estimating sewer exfiltration." *Water Resources Research* **2005**, *41*(5); doi:10.1029/2004WR003699.

Riesenfeld CS, Goodman RM, and Handelsman J. "Uncultured soil bacteria are a reservoir of new antibiotic resistance genes." *Environmental Microbiology* **2004**, *6*(9):981-989; doi:10.1111/j.1462-2920.2004.00664.x.

Riesenfeld CS, Goodman RM, and Handelsman J. "Uncultured soil bacteria are a reservoir of new antibiotic resistance genes." *Environmental Microbiology* **2004**, *6*(9):981-989; doi:10.1111/j.1462-2920.2004.00664.x.

Rietjens IMCM and Alink GM. "Future of Toxicology-Low-Dose Toxicology and Risk-Benefit Analysis." *Chemical Research in Toxicology* **2006**, *19*(8):977-981; doi:10.1021/tx0601051.

Rigos G, Alexis M, Tyrpenou AE, Nengas I, Piper I, and Troisi G. "Pharmacokinetics of oxolinic acid in gilthead sea bream, Sparus aurata L." *Journal of Fish Diseases* **2002**, *25*(7):401-408; doi:10.1046/j.1365-2761.2002.00391.x.

Rigos G, Nengas I, and Alexis M. "Oxytetracycline (OTC) uptake following bath treatment in gilthead sea bream (Sparus aurata)." *Aquaculture* **2006**, *261*(4):1151-1155; doi:10.1016/j.aquaculture.2006.09.023.

Rigos G, Nengas I, Alexis M, and Troisi GM. "Potential drug (oxytetracycline and oxolinic acid) pollution from Mediterranean sparid fish farms." *Aquatic Toxicology* **2004**, *69*(3):281-288; doi:10.1016/j.aquatox.2004.05.009.

Rigos G, Nengas I, Tyrpenou AE, Alexis M, and Troisi GM. "Pharmacokinetics and bioavailability of oxytetracycline in gilthead sea bream (Sparus aurata) after a single dose." *Aquaculture* **2003**, *221*(1-4):75-83; doi:10.1016/S0044-8486(03)00071-1.

Rigos G and Troisi GM. "Antibacterial agents in mediterranean finfish farming: A synopsis of drug pharmacokinetics in important euryhaline fish species environmental implications." *Reviews in Fish Biology and Fisheries* **2005**, *15*(1-2):53-73; doi:10.1007/s11160-005-7850-8.

Rijk JCW, Lommen A, Essers ML, Groot MJ, Van Hende JM, Doeswijk TG*, et al.* "Metabolomics Approach to Anabolic Steroid Urine Profiling of Bovines Treated with Prohormones." *Analytical Chemistry* **2009**, *81*(16):6879-6888; doi:10.1021/ac900874m.

Rimkus GG. "Polycyclic musk fragrances in the aquatic environment." *Toxicology Letters* **1999**, *111*(1-2):37-56.

Rimkus GG, Ed., "Synthetic Musk Fragrances in the Environment." Springer-Verlag, Heidelberg, 2004, Vol 3, 338 pp; http://www.springer.com/environment/environmental+toxicology/book/978-3-540-43706-2.

Rimkus GG and Brunn H. "Synthetische moschusduftstoffe – Anwendung, anreicherung in der unwelt und toxikologie; Teil 1: Herstellung, anwendung, vorkommen in lebensmitteln, aufnahme durch den menschen." *Ernährungs-Umschau* **1996**, *43*:442-449.

Rimkus GG, Butte W, and Geyer HJ. "Critical considerations on the analysis and bioaccumulation of musk xylene and other synthetic nitro musks in fish." *Chemosphere* **1997**, *35*(7):1497-1507; doi:10.1016/S0045-6535(97)00210-5.

Rimkus GG, Gatermann R, and Huhnerfuss H. "Musk xylene and musk ketone amino metabolites in the aquatic environment." *Toxicology Letters* **1999**, *111*(1-2):5-15.

Rimkus GG, Rimkus B, and Wolf M. "Nitro musks in human adipose-tissue and breast-milk." *Chemosphere* **1994**, *28*(2):421-432.

Rimkus GG and Wolf M. "Contaminants in fish from aquaculture .2. must xylene and musk ketone contaminants in fish." *Deutsche Lebensmittel-Rundschau* **1993**, *89*(6):171-175.

Rimkus GG and Wolf M. "Nitro musk fragrances in biota from fresh-water and marine-environment." *Chemosphere* **1995**, *30*(4):641-651; doi:10.1016/0045-6535(94)00430-3.

Rimkus GG and Wolf M. "Polycyclic musk fragrances in human adipose tissue and human milk." *Chemosphere* **1996**, *33*(10):2033-2043; doi:10.1016/0045-6535(96)00321-9.

Rindgen D, Grotz D, Clarke NJ, and Cox KA. "The Application of HPLC/Tandem Mass Spectrometry for the Assessment of Acyl Glucuronide Metabolite Formation in In vitro and In vivo Systems in a Drug Discovery Environment." *American Pharmaceutical Review* **2001**, *4*(4):52-59.

Risebrough R. "Fatal medicine for vultures." *Nature* **2004**, *427*:596-598; doi:10.1038/nature02365.

Ritter L, Solomon K, Sibley P, Hall K, Keen P, Mattu G*, et al.* "Sources, pathways, and relative risks of contaminants in surface water and groundwater: A perspective prepared for the Walkerton inquiry." *Journal of Toxicology and Environmental Health, Part A: Current Issues* **2002**, *65*(1):1-142.

Ritter SK. "Faster, higher, stronger." *Chemical & Engineering News* **1999**, *77*(36):42-52.

Ritter SK. "Toward greener therapeutic proteins." *Chemical & Engineering News* **2008**, *86*(4):63-66.

Rivas J, Gimeno O, Encinas A, and Beltrán F. "Ozonation of the pharmaceutical compound ranitidine: Reactivity and kinetic aspects." *Chemosphere* **2009**, *76*(5):651-656; doi:10.1016/j.chemosphere.2009.04.028.

Rivera V, Levieux A, and Levieux D. "Characterisation of Agl, the major species-specific contaminant of bovine crude heparin, and its identification as an aprotinin/heparin complex." *Journal of Pharmaceutical and Biomedical Analysis* **2002**, *29*(3):443-458; doi:10.1016/S0731-7085(02)00084-5.

Rivera-Jiménez SM and Hernández-Maldonado A. "Nickel(II) Grafted MCM-41: A Novel Sorbent for the Removal of Naproxen from Water." *Microporous Mesoporous Mat* **2008**, *116*(1-3):246-252; doi:10.1016/j.micromeso.2008.04.009.

Rivera-Utrilla J, Prados-Joya G, Sánchez-Polo M, Ferro-García MA, and Bautista-Toledo I. "Removal of nitroimidazole antibiotics from aqueous solution by adsorption/bioadsorption on activated carbon." *Journal of Hazardous Materials* **2009**, *170*(1):298-305; doi:10.1016/j.jhazmat.2009.04.096.

Rivera-Utrilla J, Sánchez-Polo M, Prados-Joya G, Ferro-García MA, and Bautista-Toledo I. "Removal Of Tinidazole From Waters By Using Ozone And Activated Carbon In Dynamic Regime." *Journal of Hazardous Materials* **2009**, *In Press*; doi:10.1016/j.jhazmat.2009.09.059.

Rizzo L, Meric S, Guida M, Kassinos D, and Belgiorno V. "Heterogenous photocatalytic degradation kinetics and detoxification of an urban wastewater treatment plant effluent contaminated with pharmaceuticals." *Water Research* **2009**, *43*(16):4070-4078; doi:10.1016/j.watres.2009.06.046.

Rizzo L, Meric S, Kassinos D, Guida M, Russo F, and Belgiorno V. "Degradation of diclofenac by TiO_2 photocatalysis: UV absorbance kinetics and process evaluation through a set of toxicity bioassays." *Water Research* **2009**, *43*(4):979-988; doi:10.1016/j.watres.2008.11.040.

RNRF. "Congress on Assessing and Mitigating Environmental Impacts of Emerging Contaminants." in American Geophysical Union Conference Facility, Washington, DC, Renewable Natural Resources Foundation, 1-2 December, 2005, http://www.rnrf.org/2005cong/.

Roach AL. "Facilitated transport of triclosan in the receiving environment of an onsite wastewater treatment system: agent of aquatic concern." Masters Dissertation, University of Tennessee, Knoxville, TN, 2006. 127 pp; http://etd.utk.edu/2006/RoachAdrienne.pdf.

Roach S, Higuchi R, Adams M, Liu Y, Karanewsky D, Marschke K*, et al.* "Discovery of nonsteroidal glucocorticoid receptor ligands based on 6-indole-1,2,3,4-tetrahydroquinolines." *Bioorganic & Medicinal Chemistry Letters* **2008**, *18*(12):3504-3508; doi:10.1016/j.bmcl.2008.05.029.

Robberson KA, Waghe AB, Sabatini DA, and Butler EC. "Adsorption of the quinolone antibiotic nalidixic acid onto anion-exchange and neutral polymers." *Chemosphere* **2006**, *63*(6):934-941; doi:10.1016/j.chemosphere.2005.09.047.

Robert Wood Johnson Foundation. "Physician Adoption of Electronic Health Records Still Extremely Low, But Medicine May be at a Tipping Point. Large survey of physicians shows practice size and setting continue as major factors influencing EHR adoption rates." Robert Wood Johnson Foundation, 2008, http://www.rwjf.org/pr/product.jsp?id=31632.

Roberts AL and Bouwer EJ. "Pharmaceuticals and Antiseptics: Occurrence and Fate in Drinking Water, Sewage Treatment Facilities, and Coastal Waters." USEPA, EPA Grant Number: R829004, Johns Hopkins University, 2001-2006. http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/1061/report/0.

Roberts L and Simpson S. "Deadly Defiance." *Science* **2008**, *321*(5887):355-; doi:10.1126/science.321.5887.355.

Roberts MC. "Nomenclature for tetracycline resistance genes." Washington, 2007, http://faculty.washington.edu/marilynr/tetweb1.pdf.

Roberts MS and Walters KA, Eds., "Dermal Absorption and Toxicity Assessment." 2nd ed.; Informa Healthcare, 2007, 177, 678 pp; http://beta.crcpress.com/product/isbn/9780849375910;jsessionid=MFHd24GGsMKEyUePPbtkMQ**, http://catalogue.informahealthcare.com/pjbp/products/10001044764/Dermal-Absorption-and-Toxicity-Assessment,-Second-Edition-ISBN-9780849375910,%201420085557;jsessionid=CD61CAE5158168ECFE5F9093A174D65E.

Roberts PH and Bersuder P. "Analysis of OSPAR priority pharmaceuticals using high-performance liquid chromatography-electrospray ionisation tandem mass spectrometry." *Journal of Chromatography A* **2006**, *1134*(1-2):143-150; doi:10.1016/j.chroma.2006.08.093.

Roberts PH and Thomas KV. "The occurrence of selected pharmaceuticals in wastewater effluent and surface waters of the lower Tyne catchment." *Science of the Total Environment* **2006**, *356*(1-3):143-153; doi:10.1016/j.scitotenv.2005.04.031.

Robertson LS, Iwanowicz LR, and Marranca JM. "Identification of centrarchid hepcidins and evidence that 17β-estradiol disrupts constitutive expression of hepcidin-1 and inducible expression of hepcidin-2 in largemouth bass (Micropterus salmoides)." *Fish & Shellfish Immunology* **2009**, *26*(6):898-907; doi:10.1016/j.fsi.2009.03.023.

Robinson AA, Belden JB, and Lydy MJ. "Toxicity of fluoroquinolone antibiotics to aquatic organisms." *Environmental Toxicology and Chemistry* **2005**, *24*(2):423-430; doi:10.1897/04-210R.1.

Robinson B. "The occurrence and fate of natural and synthetic estrogenic compounds in Halifax Harbour." Masters Dissertation, Dahlousie University, Halifax, Nova Scotia, Canada, 2006. 137 pp; http://wwwlib.umi.com/dissertations/fullcit/MR19491.

Robinson BJ and Hellou J. "Biodegradation of endocrine disrupting compounds in harbour seawater and sediments." *Science of the Total Environment* **2009**, *407*(21):5713-5718; doi:10.1016/j.scitotenv.2009.07.003.

Robinson BJ, Hui JPM, Soo EC, and Hellou J. "Estrogenic compounds in seawater and sediment from Halifax harbour, Nova Scotia, Canada." *Environmental Toxicology and Chemistry* **2009**, *28*(1):18-25; doi:10.1897/08-203.1.

Robinson CD, Brown E, Craft JA, Davies IM, Megginson C, Miller C*, et al.* "Bioindicators and reproductive effects of prolonged 17β-oestradiol exposure in a marine fish, the sand goby (Pomatoschistus minutus)." *Aquatic Toxicology* **2007**, *81*(4):397-408; doi:10.1016/j.aquatox.2006.12.020.

Robinson CD, Brown E, Craft JA, Davies IM, Moffat CF, Pirie D*, et al.* "Effects of sewage effluent and ethynyl oestradiol upon molecular markers of oestrogenic exposure, maturation and reproductive success in the sand goby (Pomatoschistus minutus, Pallas)." *Aquatic Toxicology* **2003**, *62*(2):119-134; doi:10.1016/S0166-445X(02)00079-6.

Robinson I, Junqua G, Van Coillie R, and Thomas O. "Trends in the detection of pharmaceutical products, and their impact and mitigation in water and wastewater in North America." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1143-1151; doi:10.1007/s00216-006-0951-y.

Robinson JA. "Assessing environmental impacts of veterinary products: Lessons from VICH." *Drug Information Journal* **2007**, *41*(2):169-185.

Robinson PF, Liu Q-T, Riddle AM, and Murray-Smith R. "Modeling the impact of direct phototransformation on predicted environmental concentrations (PECs) of propranolol hydrochloride in UK and US rivers." *Chemosphere* **2007**, *66*(4):757-766; doi:10.1016/j.chemosphere.2006.07.047.

Rockoff JD. "Many drug prescriptions are now going unfilled." The Wall Street Journal, 2009, 8 April http://online.wsj.com/article/SB123915436586599765.html.

Roda A, Mirasoli M, Michelini E, Magliulo M, Simoni P, Guardigli M*, et al.* "Analytical approach for monitoring endocrine-disrupting compounds in urban waste water treatment plants." *Analytical and Bioanalytical Chemistry* **2006**, *385*(4):742-752; doi:10.1007/s00216-006-0473-7.

Rodan BD, Pennington DW, Eckley N, and Boethling RS. "Screening for persistent organic pollutants: techniques to provide a scientific basis for POPs criteria in international negotiations." *Environmental Science & Technology* **1999**, *33*(20):3482 -3488; doi:10.1021/es980060t.

Rodea-Palomares I, Petre AL, Boltes K, Leganés F, Perdigón-Melón JA, Rosal R*, et al.* "Application of the combination index (CI)-isobologram equation to study the toxicological interactions of lipid regulators in two aquatic bioluminescent organisms." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.07.026.

Rodger HD and Inglis V. "Effect of trenbolone acetate on development of atlantic salmon skin and the lack of epidermal production against laboratory-induced furunculosis." *Journal of Aquatic Animal Health* **1995**, *7*:50-53; doi:10.1577/1548-8667(1995)007<0050:EOTAOD>2.3.CO;2.

Rodgers-Gray TP, Jobling S, Morris S, Kelly C, Kirby S, Janbakhsh A*, et al.* "Long-term temporal changes in the estrogenic composition of treated sewage effluent and its biological effects on fish." *Environmental Science & Technology* **2000**, *34*(8):1521-1528; doi:10.1021/es991059c.

Rodil R and Moeder M. "Development of a method for the determination of UV filters in water samples using stir bar sorptive extraction and thermal desorption-gas chromatography-mass spectrometry." *Journal of Chromatography A* **2008**, *1179*(2):81-88; doi:10.1016/j.chroma.2007.11.090.

Rodil R, Quintana JB, López-Mahía P, Muniategui-Lorenzo S, and Prada-Rodríguez D. "Multi-residue analytical method for the determination of emerging pollutants in water by solid-phase extraction and liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(3):2958-2969; doi:10.1016/j.chroma.2008.09.041.

Rodil R, Schrader S, and Moeder M. "Non-porous membrane-assisted liquid-liquid extraction of UV filter compounds from water samples." *Journal of Chromatography A* **2009**, *1216*(24):4887-4894; doi:10.1016/j.chroma.2009.04.042.

Rodrigues F, Lehmann M, Souza do Amaral V, Reguly ML, and Rodrigues de Andrade HH. "Genotoxicity of three mouthwash products, Cepacol®, Periogard®, and Plax®, in the Drosophila wing-spot test." *Environmental and Molecular Mutagenesis* **2007**, *48*(8):644-649.

Rodrigues SM, Glegg GA, Pereira ME, and Duarte AC. "Pollution Problems in the Northeast Atlantic: Lessons Learned for Emerging Pollutants such as the Platinum Group Elements." *AMBIO: A Journal of the Human Environment* **2009**, *38*(1):17-23; doi:10.1579/0044-7447-38.1.17.

Rodriguez C, Cook A, Van Buynder P, Devine B, and Weinstein P. "Screening health risk assessment of micropollutants for indirect potable reuse schemes: a three-tiered approach." *Water Science and Technology* **2007**, *56*(11):35-42; doi:10.2166/wst.2007.831.

Rodriguez C, Lang L, Wang A, Altendorf K, Garcia F, and Lipski A. "Lettuce for human consumption collected in Costa Rica contains complex communities of culturable oxytetracycline- and gentamicin-resistant bacteria." *Applied and Environmental Microbiology* **2006**, *72*(9):5870-5876; doi:10.1128/AEM.00963-06.

Rodriguez C, Van Buynder P, Lugg R, Blair P, Devine B, Cook A*, et al.* "Indirect Potable Reuse: A Sustainable Water Supply Alternative." *International Journal of Environmental Research and Public Health* **2009**, *6*(3):1174-1209; doi:10.3390/ijerph6031174.

Rodriguez C, Weinstein P, Cook A, Devine B, and Van Buynder P. "A Proposed Approach for the Assessment of Chemicals in Indirect Potable Reuse Schemes." *Journal of Toxicology and Environmental Health, Part A: Current Issues* **2007**, *70*(19):1654-1663; doi:10.1080/15287390701434828.

Rodriguez I, Carpinteiro J, Quintana JB, Carro AM, Lorenzo RA, and Cela R. "Solid-phase microextraction with on-fiber derivatization for the analysis of anti-inflammatory drugs in water samples." *Journal of Chromatography A* **2004**, *1024*(1-2):1-8; doi:10.1016/j.chroma.2003.10.049.

Rodriguez I, Quintana JB, Carpinteiro J, Carro AM, Lorenzo RA, and Cela R. "Determination of acidic drugs in sewage water by gas chromatography-mass spectrometry as tert.-butyldimethylsilyl derivatives." *Journal of Chromatography A* **2003**, *985*(1-2):265-274; doi:10.1016/S0021-9673(02)01528-5.

Rodriguez J. "Remedy Products From Mexico May Contain Lead." News America Media, 2009; http://news.ncmonline.com/news/view_article.html?article_id=6f1d9b7c80fd505f5d7aefc38a51959c.

Rodriguez Mari SS. "How pharmaceutical marketing communications affect prescribing practices, is there an ethical conflict? Focus on physicians, medical clerks and drug representatives: The case of the Western side of Puerto Rico." Masters Dissertation, University

of Puerto Rico, Mayaguez, Puerto Rico, 2008. 132 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2273405,FM=9,SEARCH=MD.Generic Search.

Rodríguez-Martínez J, Martínez-Amador S, and Garza-García Y. "Comparative anaerobic treatment of wastewater from pharmaceutical, brewery, paper and amino acid producing industries." *Journal of Industrial Microbiology & Biotechnology* **2005**, *32*(11):691-696; doi:10.1007/s10295-005-0244-z.

Rodriguez-Mozaz S, de Alda MJL, and Barcelo D. "Picogram per liter level determination of estrogens in natural waters and waterworks by a fully automated on-line solid-phase extraction-liquid chromatography-electrospray tandem mass spectrometry method." *Analytical Chemistry* **2004**, *76*(23):6998-7006; doi:10.1021/ac049051v.

Rodriguez-Mozaz S, Lopez de Alda MJ, and Barcelo D. "Monitoring of estrogens, pesticides and bisphenol A in natural waters and drinking water treatment plants by solid-phase extraction-liquid chromatography-mass spectrometry." *Journal of Chromatography A* **2004**, *1045*(1-2):85-92; doi:10.1016/j.chroma.2004.06.040.

Rodriguez-Mozaz S, Lopez de Alda MJ, and Barcelo D. "Advantages and limitations of on-line solid phase extraction coupled to liquid chromatography-mass spectrometry technologies versus biosensors for monitoring of emerging contaminants in water." *Journal of Chromatography A* **2007**, *1152*(1-2):97-115; doi:10.1016/j.chroma.2007.01.046.

Rodriguez-Mozaz S, Marco MP, de Alda MJL, and Barcelo D. "Biosensors for environmental monitoring of endocrine disruptors: a review article." *Analytical and Bioanalytical Chemistry* **2004**, *378*(3):588-598; doi:10.1007/s00216-003-2385-0.

Roehr B. "The problematic placebo effect." *HMS Beagle* **2001**, (103).

Roembke J, Knacker T, and Stahlschmidt-Allner P. "Studie über Umweltprobleme im Zusammenhang mit Arzneimitteln. Study about environmental problems in context with drugs." *F+E Vorhabens* **1996**, *106*(04):121.

Roepke TA. "Estradiol and endocrine disrupting compounds effects on echinoderm reproduction and development: Development sensitivities and defense mechanisms." Doctoral Dissertation, University of California Davis, Davis, CA, 2005.

Rogers HR. "Sources, behaviour and fate of organic contaminants during sewage treatment and in sewage sludges." *Science of the Total Environment* **1996**, *185*(1-3):3-26; doi:10.1016/0048-9697(96)05039-5.

Rogers IH, Britwell IK, and Kruzynski GM. "Organic extractables in municipal wastewater: Vancouver, British Columbia." *Water Pollution Research Journal of Canada* **1986**, *21*(2):187-204.

Rogers RS. "Sepracor: Skating on thin 'ice'." *Chemical & Engineering News* **1998**, *76*(48):11-13.

Roh H, Subramanya N, Zhao F, Yu C-P, Sandt J, and Chu K-H. "Biodegradation potential of wastewater micropollutants by ammonia-oxidizing bacteria." *Chemosphere* **2009**, *77*(8):1084-1089; doi:10.1016/j.chemosphere.2009.08.049.

Rohn D. "Indiana is flush with septic woes. As much as 70 percent of systems are considered failing, inadequate; E. coli risks worry health officials." Indianapolis Star, 2000, 17 July.

Röhricht M, Krisam J, Weise U, Kraus UR, and Düring R-A. "Elimination of pharmaceuticals from wastewater by submerged nanofiltration plate modules." *Desalination* **2010**, *250*(3):1025-1026; doi:10.1016/j.desal.2009.09.098.

Roig B. "Pharmaceutical products in the environment: Trends toward lowering occurrence and impact." in 6th Framework Programme, Nimes, France, KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 19-20 February, 2008, 101 pp.

Roig B. "Editorial." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, October, 2008, 2 pp.

Roig B. "International Conference: Pharmaceutical products in the environment: Trends toward lowering occurrence and impact." in Pharmaceutical Products in the Environment, Nîmes, France, KNAPPE, 19-20 February, 2008, 101 pp; http://www.knappe-eu.org/fichiers/60-D6.3%20Knappe%20Int%20Conf%20proceedings.pdf#page=40.

Roig B, Greenwood R, and Barcelo D. "An international conference on "Pharmaceuticals in the Environment" in a frame of EU Knappe project." *Environment International* **2009**, *35*(5):763-765; doi:10.1016/j.envint.2009.01.012.

Roig B and Touraud E. "Report on the priority actions." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 41 pp.

Rolf C, Knie U, Lemmnitz G, and Nieschlag E. "Interpersonal testosterone transfer after topical application of a newly developed testosterone gel preparation." *Clinical Endocrinology* **2002**, *56*(5):637-641; doi:10.1046/j.1365-2265.2002.01529.x.

Rolfhus KR, Sandheinrich MB, Wiener JG, Bailey SW, Thoreson KA, and Hammerschmidt CR. "Analysis of fin clips as a nonlethal method for monitoring mercury in fish." *Environmental Science & Technology* **2008**, *42*(3):871-877; doi:10.1021/es071427+.

Römbke J, Floate KD, Jochmann R, Schäfer MA, Puniamoorthy N, Knäbe S*, et al.* "Lethal and sublethal toxic effects of a test chemical (ivermectin) on the Yellow Dung Fly Scathophaga stercoraria based on a standardized international ring test." *Environmental Toxicology and Chemistry* **2009**, *28*(10):2117-2124; doi:10.1897/08-599.1.

Römbke J, Hempel H, Scheffczyk A, Schallnaß HJ, Alvinerie M, and Lumaret JP. "Environmental risk assessment of veterinary pharmaceuticals: Development of a standard laboratory test with the dung beetle Aphodius constans." *Chemosphere* **2007**, *70*(1):57-64; doi:10.1016/j.chemosphere.2007.07.027.

Römbke J, Knacker T, and Teichmann H. "Environmental risk assessment of pharmaceuticals: a proposal with special emphasis on European aspects." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 17, pp 304-319; doi:10.1021/bk-2001-0791.ch017; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Romero R. "The effect of oxytetracycline on the response of Lemna minor growth to ultraviolet-B radiation." Sectopm C-04 Triad #: 46, 25 April, 2008, 18 pp; http://www.as.wvu.edu/biology/bio321/Manuscript%20Example%207.pdf.

Romero-González R, López-Martínez JC, Gómez-Milán E, Garrido-Frenich A, and Martínez-Vidal JL. "Simultaneous determination of selected veterinary antibiotics in gilthead seabream (Sparus Aurata) by liquid chromatography-mass spectrometry." *Journal of Chromatography B* **2007**, *857*(1):142-148; doi:10.1016/j.jchromb.2007.07.011.

Ronteltap M, Maurer M, and Gujer W. "The behaviour of pharmaceuticals and heavy metals during struvite precipitation in urine." *Water Research* **2007**, *41*(9):1859-1868; doi:10.1016/j.watres.2007.01.026.

Rooklidge SJ. "Environmental antimicrobial contamination from terraccumulation and diffuse pollution pathways." *Science of the Total Environment* **2004**, *325*(1-3):1-13; doi:10.1016/j.scitotenv.2003.11.007.

Rooklidge SJ, Burns ER, and Bolte JP. "Modeling antimicrobial contaminant removal in slow sand filtration." *Water Research* **2005**, *39*(2-3):331-339; doi:10.1016/j.watres.2004.09.024.

Rooklidge SJ, Miner JR, Kassim TA, and Nelson PO. "Antimicrobial contaminant removal by multistage slow sand filtration." *Journal - American Water Works Association* **2005**, *97*(12):92-100.

Roosens L, Covaci A, and Neels H. "Concentrations of synthetic musk compounds in personal care and sanitation products and human exposure profiles through dermal application." *Chemosphere* **2007**, *69*(10):1540-1547; doi:10.1016/j.chemosphere.2007.05.072.

Rosal R, Gonzalo MS, Boltes K, Letón P, Vaquero JJ, and García-Calvo E. "Identification of intermediates and assessment of ecotoxicity in the oxidation products generated during the ozonation of clofibric acid." *Journal of Hazardous Materials* **2009**, *172*(2-3):1061-1068; doi:10.1016/j.jhazmat.2009.07.110.

Rosal R, Rodea-Palomares I, Boltes K, Fernández-Piñas F, Leganés F, Gonzalo S*, et al.* "Ecotoxicity assessment of lipid regulators in water and biologically treated wastewater using three aquatic organisms." *Environmental Science and Pollution Research* **2009**, *In press*; doi:10.1007/s11356-009-0137-1.

Rosal R, Rodríguez A, Gonzalo MS, and García-Calvo E. "Catalytic ozonation of naproxen and carbamazepine on titanium dioxide." *Applied Catalysis B: Environmental* **2008**, *84*(1-2):48-57; doi:10.1016/j.apcatb.2008.03.003.

Rosal R, Rodríguez A, Perdigón-Melón JA, Mezcua M, Hernando MD, Letón P*, et al.* "Removal of pharmaceuticals and kinetics of mineralization by O_3/H_2O_2 in a biotreated municipal wastewater." *Water Research* **2008**, *42*(14):3719-3728; doi:10.1016/j.watres.2008.06.008.

Rosal R, Rodríguez A, Perdigón-Melón JA, Petre A, García-Calvo E, Gómez MJ*, et al.* "Degradation of caffeine and identification of the transformation products generated by ozonation." *Chemosphere* **2009**, *74*(6):825-831; doi:10.1016/j.chemosphere.2008.10.010.

Rosal R, Rodríguez A, Perdigón-Melón JA, Petre A, García-Calvo E, Gómez MJ*, et al.* "Occurrence of emerging pollutants in urban wastewater and their removal through biological treatment followed by ozonation." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.07.004.

Rosario-Ortiz FL, Wert EC, and Snyder SA. "Evaluation of UV/H_2O_2 treatment for the oxidation of pharmaceuticals in wastewater." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.10.031.

Rose J, Holbech H, Lindholst C, Nørum U, Povlsen A, Korsgaard B*, et al.* "Vitellogenin induction by 17β-estradiol and 17α-ethinylestradiol in male zebrafish (Danio rerio)." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2002**, *131*(4):531-539; doi:10.1016/S1532-0456(02)00035-2.

Rose PE and Pedersen JA. "Fate of oxytetracycline in streams receiving aquaculture discharges: Model simulations." *Environmental Toxicology and Chemistry* **2005**, *24*(1):40-50; doi:10.1897/03-640.1.

Rosen M, Welander T, Lofqvist A, and Holmgren J. "Development of a new process for treatment of a pharmaceutical wastewater." *Water Science and Technology* **1998**, *37*(9):251-258; doi:10.1016/S0273-1223(98)00295-9.

Rosen R. "Mass spectrometry for monitoring micropollutants in water." *Current Opinion in Biotechnology* **2007**, *18*(3):246-251; doi:10.1016/j.copbio.2007.03.005.

Rosenberg J, Schilit S, and Nathan J. "Which oral solid medications should be protected from light and/or moisture? (Part 1 of 2)." *Drug Topics* **2008**:25-26.

Rosenblatt-Farrell N. "The Landscape of Antibiotic Resistance." *Environmental Health Perspectives* **2009**, *117*(6):A244-A250.

Rosenblum ES, Robbins TT, Scott BB, Nelson S, Juhasz C, Craigmill A*, et al.* "Efficacy, tissue distribution, and residue depletion of oxytetracycline in WS-RLP infected California red abalone Haliotis rufescens." *Aquaculture* **2008**, *277*(3-4):138-148; doi:10.1016/j.aquaculture.2008.03.005.

Rosenfeldt EJ. "UV and UV/hydrogen peroxide advanced oxidation: A theoretical, practical, and comparative examination of UV processes used to treat emerging contaminants of concern in drinking water." Doctoral Dissertation, Duke University, 2007. 203 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2221239,FM=9,SEARCH=MD.Generic Search.

Rosenfeldt EJ, Chen PJ, Kullman S, and Linden KG. "Destruction of estrogenic activity in water using UV advanced oxidation." *Science of the Total Environment* **2007**, *377*(1):105-113; doi:10.1016/j.scitotenv.2007.01.096.

Rosenfeldt EJ and Linden KG. "Degradation of Endocrine Disrupting Chemicals Bisphenol A, Ethinyl Estradiol, and Estradiol during UV Photolysis and Advanced Oxidation Processes." *Environmental Science & Technology* **2004**, *38*(20):5476-5483.

Rosenow ECI. "Patients' Understanding of and Compliance With Medications: The Sixth Vital Sign?" Mayo Clin Proceedings, 1 December, 2005, 983-987 pp; http://www.mayoclinicproceedings.com/inside.asp?a=1&ref=8008e1.

Ross K. "Drugs in the water - levels of cocaine metabolite in wastewater point to widespread abuse of the drug." *Analytical Chemistry* **2006**, *78*(1):13.

Rossknecht H, Hetzenauer H, and Ternes TA. "Pharmaceuticals in Lake Constance." *Nachrichten Aus Chemie* **2001**, *49*(2):145-149.

Rossknecht H, Hetzenauer H, and Ternes TA. "Arzneimittel im Bodensee??" *Nachrichten aus der Chemie* **2001**, *49*:145-149.

Rossner A, Snyder SA, and Knappe DRU. "Removal of Emerging Contaminants of Concern by Alternative Adsorbents." *Water Research* **2009**, *43*(15):3787-3796; doi:10.1016/j.watres.2009.06.009.

Roth M. "'Pharmaceuticals in the environment,' from a Washington State University student project 'Life down the Drain: The WSU Student Perspective'." 2003, 6 pp; http://www.campusecology.wsu.edu/page_055.htm.

Rothberg BEG, Ramesh TM, and Burgess CE. "Integrating expression-based drug response and SNP-based pharmacogenetic strategies into a single comprehensive pharmacogenomics program." *Drug Development Research* **2000**, *49*:54-64.

Rouen D, Dolan K, and Kimber J. "A review of drug detection testing and an examination of urine, hair, saliva and sweat." National Drug and Alcohol Research Centre, University of New South Wales, Sydney, Technical Report No. 120, 2001, http://notes.med.unsw.edu.au/ndarcweb.nsf/resources/TR_18/$file/TR.120.PDF.

Rouhani Rankouhi T, Sanderson JT, van Holsteijn I, van Kooten P, Bosveld ATC, and van den Berg M. "Effects of environmental and natural estrogens on vitellogenin production in hepatocytes of the brown frog (Rana temporaria)." *Aquatic Toxicology* **2005**, *71*(1):97-101; doi:10.1016/j.aquatox.2004.09.009.

Rouhi AM. "Perfumes: A whiff of chemistry." *Chemical & Engineering News* **1999**, *77*(43):38-46.

Rouhi AM. "Simple molecules aid drug uptake." *Chemical & Engineering News* **2001**, *79*(3):49-50.

Rouhi AM. "Citrus chemistry boosts drugs." *Chemical & Engineering News* **2003**, *81*(22):33-37.

Rouhi AM. "Chirality at work." *Chemical & Engineering News* **2003**, *81*(18):56-61.

Rouhi AM. "A look inside a promiscuous pump." *Chemical & Engineering News* **2003**, *81*(18):7.

Rouhi AM. "Drug Pollution." *Chemical & Engineering News* **2008**, *86*(8):3.

Rouhi M. "Germ killers - Could widely used biocide triclosan, found in common household products, pose a health risk?" *Chemical & Engineering News* **1998**, *87*(32):9.

Rouhi M. "Sugar on top: Strategy for modifying vancomycin." *Chemical & Engineering News* **1998**, *76*(43):10.

Rouleau C, Xiong Z-H, Pacepavicius G, and Huang G-L. "Uptake of Waterborne Tributyltin in the Brain of Fish: Axonal Transport as a Proposed Mechanism." *Environmental Science & Technology* **2003**, *37*(15):3298-3302; doi:10.1021/es020984n.

Routledge EJ, Parker J, Odum J, Ashby J, and Sumpter JP. "Some Alkyl Hydroxy Benzoate Preservatives (Parabens) Are Estrogenic." *Toxicology and Applied Pharmacology* **1998**, *153*(1):12-19; doi:10.1006/taap.1998.8544.

Routledge EJ, Sheahan D, Desbrow C, Brighty GC, Waldock M, and Sumpter JP. "Identification of estrogenic chemicals in STW effluent. 2. In vivo responses in trout and roach." *Environmental Science & Technology* **1998**, *32*(11):1559-1565.

Routledge EJ, Waldock M, and Sumpter JP. "Response to comment on 'Identification of estrogenic chemicals in STW effluent. 1. Chemical Fractionation and in vitro biological screening'." *Environmental Science & Technology* **1999**, *33*(2):371; doi:10.1021/es982016j.

Rowland S, Donkin P, Smith E, and Wraige E. "Aromatic Hydrocarbon "Humps" in the Marine Environment: Unrecognized Toxins?" *Environmental Science & Technology* **2001**, *35*(13):2640-2644; doi:10.1021/es0018264.

Rowney NC, Johnson AC, and Williams RJ. "Cytotoxic Drugs in Drinking Water: A Prediction and Risk Assessment Exercise for the Thames Catchment in the United Kingdom." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2733-2743; doi:10.1897/09-067.1.

Roy P, Purushothaman V, Koteeswaran A, and Dhillon AS. "Isolation, Characterization, and Antimicrobial Drug Resistance Pattern of Escherichia coli Isolated from Japanese Quail and their Environment." *Journal of Applied Poultry Research* **2006**, *15*(3):442-446.

Royal Pharmaceutical Society. "Changes in the management of CDs affecting pharmacists in England." *The Pharmaceutical Journal* **2006**, *276*:355-358.

Royal Pharmaceutical Society of Great Britain. "The hazardous waste (England and Wales) regulations 2005 Interim Guidance for Community Pharmacists for England and Wales and Information for Scotland." December, 2005, 8 pp; http://www.rpsgb.org.uk/pdfs/hazwastecommphguid.pdf.

Royal Pharmaceutical Society of Great Britain. "Guidance for Pharmacists on the safe destruction of Controlled Drugs England, Scotland and Wales." September, 2007, 6 pp; http://www.rpsgb.org.uk/pdfs/cdsafedestructionguid.pdf.

Royal Society of Chemistry. "Sustainable Water: Chemical Science Priorities Summary Report." 1 November, 2007, 28 pp; http://www.rsc.org/ScienceAndTechnology/Policy/Documents/water.asp.

Royte E. "Drugging the Waters: How an Aging Population and Growing Addiction to Pharmaceuticals May be Poisoning Our Rivers." *Onearth* **2006**, *Fall Issue*:26-31.

Royte E. "Bottlemania: How water went on sale and why we bought it." Bloomsbury, 2008, 248 pp;

http://www.nytimes.com/2008/06/15/books/review/Margonelli-t.html.

RRWA "Safe Medicine Disposal Program." Web Page maintained by Russian River Watershed Association 2009, http://www.rrwatershed.org/safemeds/index.html.

RTEHC. "2008 Summit: Pharmaceuticals in Water: What We Know, Don't Know, and Should Do." in Research Triangle Environmental Health Collaborative - Health Summit, 10-11 November 2008, North Carolina Biotechnology Center, Research Triangle Park, North Carolina, Research Triangle Environmental Health Collaborative, 2008, http://environmentalhealthcollaborative.org/summit/pharmaceuticals-in-water-summit.

RTEHC and Armes M. "Research Triangle Environmental Health Collaborative Issues Statement Regarding Pharmaceuticals in Water: Inaugural Summit Gathered Experts from Government, Industry and Academia." The Wall Street Journal, 2008, http://www.marketwatch.com/news/story/Research-Triangle-Environmental-Health-Collaborative/story.aspx?guid=%7B3A3D1143-6B0B-40CF-A694-6068B5320135%7D.

Rubert KF, Hedman CJ, and Pedersen JA. "Influence of MnO2 on the transformation of oxy- and chlortetracycline in pond water." in *Veterinary Pharmaceuticals in the Environment*, Coats Jr and Henderson KI, Eds., Oxford University Press; New York, 2009, ACS Symposium Series 806, pp.

Rubert KF and Pedersen JA. "Kinetics of oxytetracycline reaction with a hydrous manganese oxide." *Environmental Science & Technology* **2006**, *40*(23):7216-7221; doi:10.1021/es060357o.

Rubies A, Cabrera A, and Centrich F. "Determination of synthetic hormones in animal urine by high-performance liquid chromatography/mass spectrometry." *Journal of AOAC International* **2007**, *90*(2):626-632.

Rubies A, Vaquerizo R, Centrich F, Compano R, Granados M, and Prat MD. "Validation of a method for the analysis of quinolones residues in bovine muscle by liquid chromatography with electrospray ionisation tandem mass spectrometry detection." *Talanta* **2007**, *72*(1):269-276; doi:10.1016/j.talanta.2006.10.030.

Rubin H "Drug Manufacturers Directory." 2009; http://www.therubins.com/resource/drugdirect.htm.

Rubinfeld SA and Luthy RG. "Nitromusk compounds in San Francisco Bay sediments." *Chemosphere* **2008**, *73*(6):873-879; doi:10.1016/j.chemosphere.2008.07.042.

Rubinstein L. "Operating Unwanted Medication Collections - A Legal & Safe Approach." NERC Northeast Recycling Council Inc, 2006, 65 pp; www.nerc.org.

Rubinstein L. "Holding an Unwanted Medication Collection as Part of a Household Hazardous Waste Event - A Legal & Safe Approach." NERC Northeast Recylcing Council, Inc., Brattleboro, VT, September, 2006, 63 pp; http://www.nerc.org/documents/holding_unwanted_medications_collection_final_2006.pdf.

Rubinstein L. "Best Management Practices for Holding Unwanted Medication Collections A Legal & Safe Approach for Community Pharmacies." NERC Northeast Recycling Council, Inc., Brattleboro, VT, November, 2008, 74 pp; http://www.nerc.org/documents/unwanted_medication_collection_bmp_11_08.pdf.

Rubinstein L. "Holding an Unwanted Medication Collection for Community Pharmacies: A Quick Guide." November, 2008, 17 pp; http://www.nerc.org/documents/unwanted_medication_collection_quick_guide_11_08.pdf.

Rubinstein L and NERC. "Unwanted medication collection: Why & how." Powerpoint Presentation, Northeast Recycling Council, Inc, 4 May 2005; http://www.nerc.org/documents/unwanted_medications_may_05.pdf.

Rubio S and Pèrez-Bendito D. "Recent Advances in Environmental Analysis." *Analytical Chemistry* **2009**, *81*(12):4601-4622; doi:10.1021/ac900738s.

Rüdel H, Bohmer W, and Schroter-Kermani C. "Retrospective monitoring of synthetic musk compounds in aquatic biota from German rivers and coastal areas." *Journal of Environmental Monitoring* **2006**, *8*(8):812-823; doi:10.1039/b602389b.

Rudel RA, Brody JG, Spengler JD, Vallarino J, Geno PW, Sun G*, et al.* "Identification of selected hormonally active agents and animal mammary carcinogens in commercial and residential air and dust samples." *Jounal of the Air & Waste Mangement Association* **2001**, *51*:499-513.

Rudel RA and Perovich LJ. "Endocrine disrupting chemicals in indoor and outdoor air." *Atmospheric Environment* **2009**, *43*(1):170-

181; doi:10.1016/j.atmosenv.2008.09.025.

Ruden C, Brandt I, Breitholtz M, Fick J, Jansen JlC, Larsson J*, et al.* "Feminized Fish and Vulnerable Vultures - Pharmaceuticals as Environmental Pollutants Require Novel Testing Approaches." in *A Healthy Future- Pharmaceuticals in a Sustainable Society*, collaborative publication of Apoteket AB, MistraPharma, and Stockholm County Council; Sweden, 2009, Chapter 8, pp 148-165; http://www.epa.gov/nerlesd1/bios/daughton/Pharmaceuticals-Sustainability-2009.pdf.

Rudholm N. "Pharmaceutical insurance and the demand for prescription pharmaceuticals in Vasterbotten, Sweden." *Scandinavian Journal of Public Health* **2005**, *33*(1):50-56; doi:10.1080/14034940410028325.

Ruengsitagoon W, Liawruangrath S, and Townshend A. "Flow injection chemiluminescence determination of paracetamol." *Talanta* **2006**, *69*(4):976-983; doi:10.1016/j.talanta.2005.11.050.

Ruhoy IS. "Examining Unused Pharmaceuticals in the Environment." Doctoral Dissertation, University of Nevada, Las Vegas, Department of Environmental Studies, Las Vegas, NV, 2008. 153 pp; http://proquest.umi.com/pqdlink?Ver=1&Exp=08-11-2014&FMT=7&DID=1720229621&RQT=309&attempt=1&cfc=1.

Ruhoy IS and Daughton CG. "Types and quantities of leftover drugs entering the environment via disposal to sewage -- Revealed by coroner records." *Science of the Total Environment* **2007**, *388*(1-3):137-148; doi:10.10.1016/j.scitotenv.2007.08/013.

Ruhoy IS and Daughton CG. "Pharmaceutical Disposal and the Environment." Poster Presentation, USEPA, NERL, Las Vegas, NV, December 2007; http://www.epa.gov/nerlesd1/chemistry/images/drug-disposal-2.pdf.

Ruhoy IS and Daughton CG. "Disposal as a Source of Pharmaceuticals in the Environment." Poster Presentation, USEPA, NERL, Las Vegas, NV, December 2007; http://www.epa.gov/nerlesd1/chemistry/images/drug-disposal-1.pdf.

Ruhoy IS and Daughton CG. "Beyond the medicine cabinet: An analysis of where and why medications accumulate." *Environment International* **2008**, *34*(8):1157-1169; doi:10.1016/j.envint.2008.05.002.

Ruiz i Arandes MdM. "Avaluació del risc ambiental dels productes farmacèutics en l'àmbit Català [Environmental risk assessment of pharamaceuticals in Catalan]." Universitat Autonoma de Barcelona, Barcelona, Spain, 2009. 120 pp; http://www.recercat.net/handle/2072/16108?mode=simple.

Ruiz JA, Simarro PP, and Josenando T. "Control of human African trypanosomiasis in the Quicama focus." *Angola Bulletin of the World Health Organization* **2002**, *80*:738-745.

Rule KL, Ebbett VR, and Vikesland PJ. "Formation of Chloroform and Chlorinated Organics by Free-Chlorine-Mediated Oxidation of Triclosan." *Environmental Science & Technology* **2005**, *39*(9):3176-3185.

RUM and Appel S. "Return your unwanted medicines to your pharmacy." The National Return & Disposal of Unwanted Medicines Limited, Ed., 2008, http://www.westernifh.org/uploads/Action/Return%20Unawanted%20Medicines%20Report%20-%20Galliagh%20Women's%20Group_20060510122032.doc.

RUM, Galliagh Women's Group, and Gallagher M. "Return unwanted medicines (RUM) project." May, 2003, 16 pp; http://www.westernifh.org/uploads/Action/Return%20Unawanted%20Medicines%20Report%20-%20Galliagh%20Women's%20Group_20060510122032.doc.

Rundstedt RJ. "Cost Analysis for the Return and Disposal of Expired Navy Pharmaceuticals." Masters Dissertation, Naval Postgraduate School, Monterey, CA, 1993. 91 pp; http://stinet.dtic.mil/cgi-bin/GetTRDoc?AD=ADA277212&Location=U2&doc=GetTRDoc.pdf.

Runnalls TJ, Hala DN, and Sumpter JP. "Preliminary studies into the effects of the human pharmaceutical clofibric acid on sperm parameters in adult fathead minnow." *Aquatic Toxicology* **2007**, *84*(1):111-118; doi:10.1016/j.aquatox.2007.06.005.

Russell AD. "Bacterial resistance to disinfectants: present knowledge and future problems." *Journal of Hospital Infection* **1999**, *43*(Supplement 1):S57-S68; doi:10.1016/S0195-6701(99)90066-X.

Russell AD. "Antibiotic and biocide resistance in bacteria: comments and conclusions." *Journal of Applied Microbiology* **2002**, *92*(1):171S-173S; doi:10.1046/j.1365-2672.92.5s1.11.x.

Russell AD, Hammond SA, and Morgan JR. "Bacterial resistance to antiseptics and disinfectants." *Journal of Hospital Infection* **1986**, *7*(3):213-225; doi:10.1016/0195-6701(86)90071-X.

Russell S and Lux C. "WATER RECYCLING & THE COMMUNITY: Public responses and consultation strategies - A literature review and discussion." University of Wollongong, Oz-AQUAREC WP5, October, 2006, 109 pp; http://libilip.uow.edu.au/science/chem/aquarec/pdf/wp5/wp5-1.pdf.

Rust S and Fauber J. 2009, "Drug firms' cash skews doctor classes: Company-funded UW courses often favor medicine, leave out side effects." JSOnline, Journal Sentinel, 5 pp; http://www.jsonline.com/news/42064977.html.

Rutesch HD. "Overview of pharmaceutical excipients used in tablets and capsules." *Drug Topics* **2008**, *October*.

Rutherford SL and Lindquist S. "Hsp90 as a capacitor for morphological evolution." *Nature* **1998**, *396*(6709):336-342; doi:10.1038/24550.

Rutishauser BV, Pesonen M, Escher BI, Ackermann GE, Aerni HR, Suter MJF*, et al.* "Comparative analysis of estrogenic activity in sewage treatment plant effluents involving three in vitro assays and chemical analysis of steroids." *Environmental Toxicology and Chemistry* **2004**, *23*(4):857-864.

Rutsch M, Rieckermann J, and Krebs P. "Quantification of sewer leakage: a review." *Water Science and Technology* **2006**, *54*(6-7):135-144; doi:10.2166/wst.2006.616.

RxHub "RxHub National Patient Health Information Network (PHIN)." Web Page maintained by RxHub LLC 2008, http://www.rxhub.net/.

RxList "Top Prescription Index." RxList, Inc. 2008; http://www.rxlist.com.

RxList "The Internet Drug Index. WebMD." RxList, Inc. 2009; http://www.rxlist.com.

Ryan BC and Vandenbergh JG. "Developmental exposure to environmental estrogens alters anxiety and spatial memory in female mice." *Hormones and Behavior* **2006**, *50*(1):85-93; doi:10.1016/j.yhbeh.2006.01.007.

Ryan JF. "The pharmaceutical century, 10 decades of drug discovery." *American Chemical Society* **2000**, *Supplement*.

Ryan JJ, Pilon JC, Mc Leod HA, Crober DC, and Sefton AE. "The Transfer of the Coccidiostat Clopidol to Lambs by Feeding Chicken Waste." *Journal of Environmental Quality* **1979**, *8*(3):439-442.

Ryan K, Norris P, and Becket G. "Capturing data on medicines usage: the potential of community pharmacy databases." *New Zealand Medical Journal* **2005**, *118*(1223):U1677.

Ryan MA. "'Functional foods' hit supermarket shelves." *Today's Chemist* **1999**, *8*(9):59-63.

Ryan PB, Burke TA, Cohen Hubal EA, Cura JJ, and McKone TE. "Using biomarkers to inform cumulative risk assessment." *Environmental Health Perspectives* **2007**, *115*(5):833-840; doi:10.1289/ehp.9334.

Rysz M and Alvarez PJJ. "Amplification and attenuation of tetracycline resistance in soil bacteria: aquifer column experiments." *Water Research* **2004**, *38*(17):3705-3712; doi:10.1016/j.watres.2004.06.015.

SA Biosciences "Pathway Central." SA Biosciences Corporation 2009; http://www.sabiosciences.com/pathwaycentral.php.

Saaristo M, Craft JA, Lehtonen KK, Björk H, and Lindström K. "Disruption of sexual selection in sand gobies (Pomatoschistus minutus) by 17α-ethinyl estradiol, an endocrine disruptor." *Hormones and Behavior* **2009**, *55*(4):530-537; doi:10.1016/j.yhbeh.2009.01.006.

Saaristo M, Craft JA, Lehtonen KK, and Lindström K. "Sand goby (Pomatoschistus minutus) males exposed to an endocrine disrupting chemical fail in nest and mate competition." *Hormones and Behavior* **2009**, *56*(3):315-321; doi:10.1016/j.yhbeh.2009.06.010.

SAB. "SAB Advisory on Aquatic Life Water Quality Criteria for Contaminants of Emerging Concern." US EPA Science Advisory Board and Ecological Processes and Effects Committee, 27 August 2008. 56 pp; http://yosemite.epa.gov/sab/sabproduct.nsf/ea5d9a9b55cc319285256cbd005a472e/ed6165a29bdc0e83852574b9006b117e/$FILE/Draft%20EPEC%20Aquatic%20Life%20Criteria%20Report%208-27-08.pdf.

Sabaliunas D, Webb SF, Hauk A, Jacob M, and Eckhoff WS. "Environmental fate of Triclosan in the River Aire Basin, UK." *Water*

Research **2003**, *37*(13):3145-3154; doi:10.1016/S0043-1354(03)00164-7.

Sabaté M, Prats G, Moreno E, Ballesté E, Blanch AR, and Andreu A. "Virulence and antimicrobial resistance profiles among Escherichia coli strains isolated from human and animal wastewater." *Research in Microbiology* **2008**, *159*(4):288-293; doi:10.1016/j.resmic.2008.02.001.

Sabbieti MG, Agas D, Santoni G, Materazzi S, Menghi G, and Marchetti I. "Involvement of p53 in phthalate effects on mouse and rat osteoblasts." *Journal of Cellular Biochemistry* **2009**, *107*(2):316-327; doi:10.1002/jcb.22127.

Sablowski R and Harberd NP. "Plant genes on steroids." *Science* **2005**, *307*(5715):1569-1570; doi:10.1126/science.1110534.

Sabo-Attwood T, Blum JL, Kroll KJ, Patel V, Birkholz D, Szabo NJ*, et al.* "Distinct expression and activity profiles of largemouth bass (Micropterus salmoides) estrogen receptors in response to estradiol and nonylphenol." *Journal of Molecular Endocrinology* **2007**, *39*(4):223-237; doi:10.1677/jme-07-0038.

Sabourin L, Beck A, Duenk PW, Kleywegt S, Lapen DR, Li H*, et al.* "Runoff of pharmaceuticals and personal care products following application of dewatered municipal biosolids to an agricultural field." *Science of the Total Environment* **2009**, *407*(16):4596-4604; doi:10.1016/j.scitotenv.2009.04.027.

Sabourin L, Beck A, Duenk PW, Kleywegt S, Lapen DR, Li H*, et al.* "Erratum to "Runnoff of pharmaceuticals and personal care products following application of dewatered municipal biosolids to an agricultural field" [Science of the Total Environment 407 (2009) 4596-4604]." *Science of the Total Environment* **2009**, *407*(22):5928-5930; doi:10.1016/j.scitotenv.2009.07.014.

Saccà ML, Accinelli C, Fick J, Lindberg R, and Olsen B. "Environmental fate of the antiviral drug Tamiflu in two aquatic ecosystems." *Chemosphere* **2009**, *75*(1):28-33; doi:10.1016/j.chemosphere.2008.11.060.

SACGHS. "Realizing the Promise of Pharmacogenomics: Opportunities and Challenges." *Biotechnology Law Report* **2007**, *26*(3):261-291; doi:10.1089/blr.2007.9956.

SACGHS. "Realizing the Potential of Pharmacogenomics: Opportunities and Challenges." Secretary's Advisory Committee on Genetics, Health, and Society, chartered by U.S. Department of Health & Human Services, May, 2008, 172 pp; http://www4.od.nih.gov/oba/sacghs/reports/SACGHS_PGx_Report.pdf.

Sacher F and Brauch HJ. "Experiences on the fate of organic micropollutants during riverbank filtration." in *Riverbank filtration: Understanding contaminant biogeochemistry and pathogen removal, Proceedings of the NATO Advanced Research Workshop, held in Tihany, Hungary, from 5 to 8 September 2001*, Ray C, Ed., Springer; 2002, NATO Science Series. Series IV, Earth and environmental sciences, pp 135-151; http://springer.com/978-1-4020-0955-6.

Sacher F, Ehmann M, Gabriel S, Graf C, and Brauch H-J. "Pharmaceutical residues in the river Rhine—results of a one-decade monitoring programme." *Journal of Environmental Monitoring* **2008**, *10*(5):664-670; doi:10.1039/b800701b.

Sacher F, Gabriel S, Metzinger M, and Wenz M. "Pharmaceuticals in ground and surface waters." *Chimia* **2003**, *57*(1-2):29-31.

Sacher F, Lange FT, Brauch H-J, and Blankenhorn I. "Pharmaceuticals in groundwaters: Analytical methods and results of a monitoring program in Baden-Württemberg, Germany." *Journal of Chromatography A* **2001**, *938*(1-2):199-210; doi:10.1016/S0021-9673(01)01266-3.

Sacher F, Lochow E, Bethmann D, and Brauch H-J. "[Occurrence of drugs in surface waters] Vorkommen von arzneimittelwirkstoffen in oberflachenwassern." *Vom Wasser* **1998**, *90*:233-243.

Sacher F, Raue B, and Brauch HH. "Analysis of iodinated X-ray contrast agents in water samples by ion chromatography and inductively-coupled plasma mass spectrometry." *Journal of Chromatography A* **2005**, *1085*(1):117-123; doi:10.1016/j.chroma.2005.01.031.

Sacher F and Stoks P. "Pharmaceutical residues in waters in the Netherlands." RIWA, Nieuwegein, The Netherlands, November, 2003, 23 pp; www.riwa.org, http://library.wur.nl/WebQuery/hydrotheek/lang/1700489, http://www.riwa-rijn.org/e_publikaties/116_farma_res.pdf.

Sadezky A, Loffler D, and Ternes T. "Proposal of an environmental indicator and classification system of pharmaceutical product residues for environmental management." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 92 pp.

Sadrieh N and Tyner K. "Characterization considerations for nanomaterial-based drugs." *American Pharmaceutical Review* **2008**, (March/April).

Safe S. "Endocrine disruptors and human health: is there a problem." *Toxicology* **2004**, *205*(1-2):3-10; doi:10.1016/j.tox.2004.06.032.

Safe SH. "Endocrine disruptors and human health Is there a problem? An update." *Environmental Health Perspectives* **2000**, *108*(6):487-491.

Säfström C. "Reduction of active pharmaceutical ingredients and oestrogens in wastewater – using powdered activated carbon." Lund University, May, 2008, http://www.chemeng.lth.se/exjobb/E494.pdf.

Saghir SA, Mendrala AL, Bartels MJ, Day SJ, Hansen SC, Sushynski JM*, et al.* "Strategies to assess systemic exposure of chemicals in subchronic/chronic diet and drinking water studies." *Toxicology and Applied Pharmacology* **2006**, *211*(3):245-260; doi:10.1016/j.taap.2005.06.010.

Sahlström L, Rehbinder V, Albihn A, Aspan A, and Bengtsson B. "Vancomycin resistant enterococci (VRE) in Swedish sewage sludge." *Acta Veterinaria Scandinavica* **2009**, *51*(1):24; doi:10.1186/1751-0147-51-24.

Sahoo KC. "Antibiotic use, environment and antibiotic resistance: A qualitative study among human and veterinary health care professionals in Orissa, India." Masters Dissertation, School of Business and Engineering, 2008. 30 pp; http://dspace.hh.se/dspace/handle/2082/2272.

Saier MHJ, Paulsen IT, Sliwinski MK, Pao SS, Skurray RA, and Nikaido H. "Evolutionary origins of multidrug and drug-specific efflux pumps in bacteria." *FASEB Journal* **1998**, *12*(3):265-274.

Saifi M, Dallal M, Pourshafie M, Eshraghian M, Pourmand M, Salari M*, et al.* "High Level Resistance of Enterococcus faecium and E. faecalisIsolates from Municipal Sewage Treatment Plants to Gentamicin." *Iranian Journal of Public Health* **2008**, *37*(1):103-107.

Saito T, Wtsadik A, Scheidweiler KB, Fortner N, Takeichi S, and Huestis MA. "Validated Gas Chromatographic-Negative Ion Chemical Ionization Mass Spectrometric Method for Δ9-Tetrahydrocannabinol in Sweat Patches." *Clinical Chemistry* **2004**, *50*(11):2083-2090; doi:10.1373/clinchem.2004.034868.

Saito Y, Nojiri M, Imaizumi M, Nakao Y, Morishima Y, Kanehara H*, et al.* "Polymer-coated synthetic fibers designed for miniaturized sample preparation process." *Journal of Chromatography A* **2002**, *975*(1):105-112; doi:10.1016/S0021-9673(02)01333-X.

Sajewicz M. "Use of densitometric TLC for detection of selected drugs present in river water in south Poland." *Journal of Planar Chromatography - Modern TLC* **2005**, *18*(102):108-111; doi:10.1556/JPC.18.2005.2.4.

Sakaji R, Snyder S, Obolensky A, Westerhoff P, Daniel P, and Robertson A. "Endocrine Disruptors / Pharmaceuticals and Personal Care Products Strategic Initiative Strategic Plan." Awwa Research Foundation, Denver, CO, 7 August, 2008, http://www.waterresearchfoundation.org/theFoundation/ourPrograms/EDC_PPCP_StrategicPlan.pdf.

Sakkas VA, Calza P, Medana C, Villioti AE, Baiocchi C, Pelizzetti E*, et al.* "Heterogeneous photocatalytic degradation of the pharmaceutical agent salbutamol in aqueous titanium dioxide suspensions." *Applied Catalysis B: Environmental* **2007**, *77*(1-2):135-144; doi:10.1016/j.apcatb.2007.07.017.

Sakkas VA, Giokas DL, Lambropoulou DA, and Albanis TA. "Aqueous photolysis of the sunscreen agent octyl-dimethyl-p-aminobenzoic acid: Formation of disinfection byproducts in chlorinated swimming pool water." *Journal of Chromatography A* **2003**, *1016*(2):211-222; doi:10.1016/S0021-9673(03)01331-1.

Sakkas VA, P.Calza, Islam MA, Medana C, Baiocchi C, Panagiotou K*, et al.* "TiO_2/H_2O_2 mediated photocatalytic transformation of UV filter 4-methylbenzylidene camphor (4-MBC) in aqueous phase: Statistical optimization and photoproduct analysis." *Applied Catalysis B: Environmental* **2009**, *90*(3-4):526-534; doi:10.1016/j.apcatb.2009.04.013.

Salam MA, Sawada T, Ohya T, Ninomiya K, and Hayashi S. "Detection of environmental estrogenicity using transgenic medaka hatchlings (Oryzias latipes) expressing the GFP-tagged choriogenin L Gene." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2008**, *43*(3):272 - 277; doi:10.1080/10934520701792761.

Salánki J. "Invertebrates in neurotoxicology." *Acta Biologica Hungarica* **2000**, *51*(2-4):287-307.

Salem H. "Toxicology of Low-level Exposure: Evidence for Hormesis?" *Journal of Applied Toxicology* **2000**, *20*(2):89.

Sales M, F. G, Reis BF, and Montenegro MCBSM. "Automatic multicommmutated [sic] flow system for diffusion studies of pharmaceuticals through artificial enteric membrane." *Journal of Pharmaceutical and Biomedical Analysis* **2001**, *26*(1):103-109; doi:10.1016/S0731-7085(01)00352-1.

Salierno JD and Kane AS. "17α-Ethinylestradiol Alters Reproductive Behaviors, Circulating Hormones, and Sexual Morphology in Male Fathead Minnows (Pimephales promelas)." *Environmental Toxicology and Chemistry* **2008**, *28*(5):953-961; doi:10.1897/08-111.1.

Saljoughian M. "Disposal of Hazardous Pharmaceutical Waste." *US Pharmacist* **2004**, *29*(6):HS-22-HS-24.

Salo HM, Hébert N, Dautremepuits C, Cejka P, Cyr DG, and Fournier M. "Effects of Montreal municipal sewage effluents on immune responses of juvenile female rainbow trout (Oncorhynchus mykiss)." *Aquatic Toxicology* **2007**, *84*(4):406-414; doi:10.1016/j.aquatox.2007.06.014.

Salomon M. "Pharmaceuticals in the aquatic environment - The German Environmental Advisory Council: need for action." *Umweltwissenschaften und Schadstoff-Forschung* **2005**, *17*(1):50-53.

Salomon M. "Pharmazeutische Wirkstoffe und Umweltschutz [Pharmaceuticals and environmental protection]." *UWSF - Z Unwelt Chem Okotox* **2007**, *19*(3):155-167.

Salste L, Leskinen P, Virta M, and Kronberg L. "Determination of estrogens and estrogenic activity in wastewater effluent by chemical analysis and the bioluminescent yeast assay." *Science of the Total Environment* **2007**, *378*(3):343-351; doi:10.1016/j.scitotenv.2007.02.030.

Salte R. "[Drug therapy of fishes - flow of medicaments to consumers and environment]." in 118. NJF Seminarium, Pargas, Finland, Nordiske Jordbrugsforskeres Forening, 1-3 April, 1987, 58-60 pp; http://www.fao.org/agris/search/display.do?f=./1988/v1408/NO880024088.xml;NO880024088.

Salvador A, Moretton C, Piram A, and Faure R. "On-line solid-phase extraction with on-support derivatization for high-sensitivity liquid chromatography tandem mass spectrometry of estrogens in influent/effluent of wastewater treatment plants." *Journal of Chromatography A* **2007**, *1145*(1-2):102-109; doi:10.1016/j.chroma.2007.01.055.

Salvador J-P, Adrian J, Galve R, Pinacho DG, Kreuzer M, Sánchez-Baeza F*, et al.* "Analysis of Pharmaceuticals as Environmental Contaminants - Application of bioassays/biosensors for the analysis of pharmaceuticals in environmental samples." in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science; 2007, Chapter 2.8, pp; http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Salvito D. "Comment on "Acute aquatic toxicities of four musk xylene derivatives on Daphnia magna" by A. Behechti, K.-W. Schramm, A. Attar, J. Niederfellner, and A. Kettrup. Wat. Res. 32, 1704-1707." *Water Research* **2000**, *34*(9):2625-2625; doi:10.1016/S0043-1354(00)00178-0.

Salvito D. "Synthetic musk compounds and effects on human health?" *Environmental Health Perspectives* **2005**, *113*(12):A802-A803.

Salvito D. "Correspondence." *Marine Pollution Bulletin* **2006**, *52*(10):1316-1317; doi:10.1016/j.marpolbul.2006.05.026.

Salvito DT, Senna RJ, and Federle TW. "A framework for prioritizing fragrance materials for aquatic risk assessment." *Environmental Toxicology and Chemistry* **2002**, *21*(6):1301-1308; doi:10.1897/1551-5028(2002)021.

Salvito DT, Vey MGH, and Senna RJ. "Fragrance materials and their environmental impact." *Flavour and Fragrance Journal* **2004**, *19*(2):105-108; doi:10.1002/ffj.1398.

Salzman JE. "Is It Safe to Drink the Water? Duke Law School Public Law & Legal Theory Paper No. 244; Duke Science, Technology & Innovation Paper No. 35; Duke Environmental Law & Policy Forum, Vol 19, No. 1." *Duke Public Law & Legal Theory Research Papers Series* **2009**.

Sam M, Vora S, Malnic B, Ma W, Novotny MV, and Buck LB. "Neuropharmacology: Odorants may arouse instinctive behaviours." *Nature* **2001**, *412*(6843):142-142; doi:10.1038/35084137.

Samanidou V, Evaggelopoulou E, Trötzmüller M, Guo X, and Lankmayr E. "Multi-residue determination of seven quinolones antibiotics in gilthead seabream using liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2008**, *1203*(2):115-123; doi:10.1016/j.chroma.2008.07.003.

Sammartino MP, Bellanti F, Castrucci M, Ruiu D, Visco G, and Zoccarato T. "Ecopharmacology: Deliberated or casual dispersion of pharmaceutical principles, phytosanitary, personal health care and veterinary products in environment needs a multivariate analysis or expert systems for the control, the measure and the remediation." *Microchemical Journal* **2008**, *88*(2):201-209; doi:10.1016/j.microc.2007.11.021.

Samren EB, van Duijn CM, Koch S, Hiilesmaa VK, Klepel H, Bardy AH*, et al.* "Maternal use of antiepileptic drugs and the risk of major congenital malformations: A joint European prospective study of human teratogenesis associated with maternal epilepsy." *Epilepsia* **1997**, *38*(9):981-990.

Samsøe-Petersen L. "Organic contaminants in sewage sludge. Review of studies regarding occurrence and risks in relation to the application of sewage sludge to agricultural soil." June, 2002, 68 pp.

Samsøe-Petersen L, Winther-Nielsen M, Madsen T, and DHI Water and Environment. "Fate and Effects of Triclosan." Danish EPA, Environmental Project No. 861 2003, 2003, 47 pp; http://www.miljoestyrelsen.dk/udgiv/publications/2003/87-7972-984-3/pdf/87-7972-985-1.pdf.

Samsonova JV, Douglas AJ, Cooper KM, Kennedy DG, and Elliott CT. "The identification of potential alternative biomarkers of nitrofurazone abuse in animal derived food products." *Food and Chemical Toxicology* **2008**, *46*(5):1548-1554; doi:10.1016/j.fct.2007.12.019.

Samuel S. 2009, "The dangers of expired medications." http://dianah-allabouthealth.blogspot.com/2009/04/dangers-of-expired-medications.html.

Samuelsen O, Solheim E, and Lunestad B. "Fate and microbiological effects of furazolidone in a marine aquaculture sediment." *Science of the Total Environment* **1991**, *108*(3):275-283.

Samuelsen O, Torsvik V, and Ervik A. "Long-range changes in oxytetracycline concentration and bacterial resistance toward oxytetracycline in a fish farm sediment after medication." *Science of the Total Environment* **1992**, *114*:25-36.

Samuelsen OB. "Degradation of oxytetracycline in seawater at two different temperatures and light intensities, and the persistence of oxytetracycline in the sediment from a fish farm." *Aquaculture* **1989**, *83*(1-2):7-16; doi:10.1016/0044-8486(89)90056-2.

Samuelsen OB. "Pharmacokinetics of quinolones in fish: A review." *Aquaculture* **2006**, *255*(1-4):55-75; doi:10.1016/j.aquaculture.2005.12.008.

Samuelsen OB, Bergh O, and Ervik A. "Pharmacokinetics of florfenicol in cod Gadus morhua and in vitro antibacterial activity against Vibrio anguillarum." *Diseases of Aquatic Organisms* **2003**, *56*(2):127-133.

Samuelsen OB, Bergh Ø, and Ervik A. "A single-dose pharmacokinetic study of oxolinic acid and vetoquinol, an oxolinic acid ester, in cod, Gadus morhua L., held in sea water at 8°C and in vitro antibacterial activity of oxolinic acid against Vibrio anguillarum strains isolated from diseased cod." *Journal of Fish Diseases* **2003**, *26*(6):339-347; doi:10.1046/j.1365-2761.2003.00466.x.

Samuelsen OB and Ervik A. "A single-dose pharmacokinetic study of oxolinic acid and vetoquinol, an oxolinic acid ester, in Atlantic halibut, Hippoglossus hippoglossus L., held in sea water at 9°C." *Journal of Fish Diseases* **1999**, *22*(1):13-23; doi:10.1046/j.1365-2761.1999.00133.x.

Samuelsen OB, Ervik A, Pursell L, and Smith P. "Single-dose pharmacokinetic study of oxolinic acid and vetoquinol, an oxolinic acid ester, in Atlantic salmon (Salmo salar) held in seawater and in vitro antibacterial activity against Aeromonas salmonicida." *Aquaculture* **2000**, *187*(3-4):213-224; doi:10.1016/S0044-8486(00)00315-X.

Samuelsen OB, Lunestad BT, Ervik A, and Fjelde S. "Stability of antibacterial agents in an artificial marine aquaculture sediment studied under laboratory conditions." *Aquaculture* **1994**, *126*(3-4):283-290; doi:10.1016/0044-8486(94)90044-2.

Samuelsen OB, Lunestad BT, Husevag B, Holleland T, and Ervik A. "Residues of oxolinic acid in wild fauna following medication in fish farms." *Diseases of Aquatic Organisms* **1992**, *12*(2):111-119.

Samuelsson LM, Forlin L, Karlsson G, Adolfsson-Erici M, and Larsson DGJ. "Using NMR metabolomics to identify responses of an environmental estrogen in blood plasma of fish." *Aquatic Toxicology* **2006**, *78*(4):341-349; doi:10.1016/j.aquatox.2006.04.008.

Sanches-Silva A, Sendon-Garcia R, Lopez-Hernandez J, and Paseiro-Losada P. "Determination of triclosan in foodstuffs." *Journal of Separation Science* **2005**, *28*(1):65-72; doi:10.1002/jssc.200401845.

Sanchez MA, Ullman B, Landfear SM, and Carter NS. "Cloning and functional expression of a gene encoding a P1 type nucleoside transporter from Trypanosoma brucei." *Journal of Biological Chemistry* **1999**, *274*:30244-30249.

Sánchez-Argüello P, Fernández C, and Tarazona JV. "Assessing the effects of fluoxetine on Physa acuta (Gastropoda, Pulmonata) and Chironomus riparius (Insecta, Diptera) using a two-species water-sediment test." *Science of the Total Environment* **2009**, *407*(6):1937-1946; doi:10.1016/j.scitotenv.2008.12.004.

Sánchez-Bayo F and Goka K. "Ecological effected of the insecticide imidacloprid and a pollutant from antidandruff shampoo in experimental rice fields." *Environmental Toxicology and Chemistry* **2006**, *25*(6):1677-1687; doi:10.1897/05-404R.1.

Sánchez-Martínez ML, Aguilar-Caballos MP, and Gómez-Hens A. "Long-wavelength homogeneous enzyme immunoassay for the determination of amikacin in water samples." *Talanta* **2009**, *78*(1):305-309; doi:10.1016/j.talanta.2008.11.014.

Sánchez-Polo M, López-Peñalver J, Prados-Joya G, Ferro-García MA, and Rivera-Utrilla J. "Gamma Irradiation Of Pharmaceutical Compounds, Nitroimidazoles, As A New Alternative For Water Treatment." *Water Research* **2009**, *43*(16):4028-4036; doi:10.1016/j.watres.2009.05.033.

Sánchez-Polo M, Méndez-Díaz JD, Rivera-Utrilla J, Bautista-Toledo MI, and Ferro-Garcia MA. "Influence of presence of tannic acid on removal of sodium dodecylbenzenesulphonate by O_3 and advanced oxidation processes." *Journal of Chemical Technology and Biotechnology* **2009**, *84*(3):367-375; doi:10.1002/jctb.2049.

Sánchez-Polo M, Rivera-Utrilla J, Prados-Joya G, Ferro-García MA, and Bautista-Toledo I. "Removal of pharmaceutical compounds, nitroimidazoles, from waters by using the ozone/carbon system." *Water Research* **2008**, *42*(15):4163-4171; doi:10.1016/j.watres.2008.05.034.

Sanchez-Prado L, Barro R, Garcia-Jares C, Llompart M, Lores M, Petrakis C*, et al.* "Sonochemical degradation of triclosan in water and wastewater." *Ultrasonics Sonochemistry* **2008**, *15*(5):689-694; doi:10.1016/j.ultsonch.2008.01.007.

Sanchez-Prado L, Llompart M, Lores M, Fernandez-Alvarez M, Garcia-Jares C, and Cela R. "Further research on the photo-SPME of triclosan." *Analytical and Bioanalytical Chemistry* **2006**, *384*(7-8):1548-1557; doi:10.1007/s00216-006-0311-y.

Sanchez-Prado L, Llompart M, Lores M, Garcia-Jares C, Bayona JM, and Cela R. "Monitoring the photochemical degradation of triclosan in wastewater by UV light and sunlight using solid-phase microextraction." *Chemosphere* **2006**, *65*(8):1338-1347; doi:10.1016/j.chemosphere.2006.04.025.

Sanchez-Prado L, Lores M, Llompart M, Garcia-Jares C, Lourido M, and Cela R. "Further solid-phase microextraction-gas chromatography-mass spectrometry applications: "on-fibre" and aqueous photodegradation of nitro musks." *Journal of Chromatography A* **2004**, *1048*(1):73-80; doi:10.1016/j.chroma.2004.07.035.

Sanchez-Prado L, Lourido M, Lores M, Llompart M, Garcia-Jares C, and Cela R. "Study of the photoinduced degradation of polycyclic musk compounds by solid-phase microextraction and gas chromatography/mass spectrometry." *Rapid Communications in Mass Spectrometry* **2004**, *18*(11):1186-1192; doi:10.1002/rcm.1459.

Sanchez-Rasero F, Matallo MB, Romero E, Dios G, and Pena A. "Determination of Mecoprop and Dichlorprop in Aqueous Soil Solutions by HPLC with DAD." *Journal of Liquid Chromatography & Related Technologies* **1998**, *21*(14):2211-2218.

Sandaa R-A, Torsvik VL, and Goksoyr J. "Transferable drug resistance in bacteria from fish-farm sediment." *Canadian Journal of Microbiology* **1992**, *38*:1061-1065.

Sanders B. "Stress proteins: Potential as multitiered biomarkers." in *Biomarkers of Environ Contamination*, McCarthy JF and Shugart LR, Eds., Lewis Publishers; 1990, pp 165-191.

Sanders B. "Stress proteins as molecular chaperones: Implications for toxicology." *Environmental Health Perspectives* **1994**, *102*(6-7):538-540.

Sanders BM. "Stress proteins in aquatic organisms: An environmental perspective." *Critical Reviews in Toxicology* **1993**, *23*(1):49-75; doi:10.3109/10408449309104074.

Sanders BM and Dyer SD. "Cellular stress response." *Environmental Toxicology and Chemistry* **1994**, *13*(8):1209-1210; doi:10.1897/1552-8618(1994)13[1209:CSR]2.0.CO;2.

Sanders SM, Srivastava P, Feng Y, Dane JH, Basile J, and Barnett MO. "Sorption of the Veterinary Antimicrobials Sulfadimethoxine and Ormetoprim in Soil." *Journal of Environmental Quality* **2008**, *37*(4):1510-1518; doi:10.2134/jeq2007.0215.

Sanderson H. "Comment on 'Co-occurrence of triclocarban and triclosan in US water resources'." *Environmental Science & Technology* **2005**, *39*(16):6334; doi:10.1021/es058009u.

Sanderson H, Brain RA, Johnson DJ, Wilson CJ, and Solomon KR. "Toxicity classification and evaluation of four pharmaceuticals classes: antibiotics, antineoplastics, cardiovascular, and sex hormones." *Toxicology* **2004**, *203*(1-3):27-40; doi:10.1016/j.tox.2004.05.015.

Sanderson H, Dyer SD, Price BB, Nielsen AM, van Compernolle R, Selby M*, et al.* "Occurrence and weight-of-evidence risk assessment of alkyl sulfates, alkyl ethoxysulfates, and linear alkylbenzene sulfonates (LAS) in river water and sediments." *Science of the Total Environment* **2006**, *368*(2-3):695-712.

Sanderson H, Ingerslev F, Brain RA, Halling-Sorensen B, Bestari JK, Wilson CJ*, et al.* "Dissipation of oxytetracycline, chlortetracycline, tetracycline and doxycycline using HPLC-UV and LC/MS/MS under aquatic semi-field microcosm conditions." *Chemosphere* **2005**, *60*(5):619-629; doi:10.1016/j.chemosphere.2005.01.035.

Sanderson H, Johnson DJ, Reitsma T, Brain RA, Wilson CJ, and Solomon KR. "Ranking and prioritization of environmental risks of pharmaceuticals in surface waters." *Regulatory Toxicology and Pharmacology* **2004**, *39*(2):158-183; doi:10.1016/j.yrtph.2003.12.006.

Sanderson H, Johnson DJ, Wilson CJ, Brain RA, and Solomon KR. "Probabilistic hazard assessment of environmentally occurring pharmaceuticals toxicity to fish, daphnids and algae by ECOSAR screening." *Toxicology Letters* **2003**, *144*(3):383-395; doi:10.1016/S0378-4274(03)00257-1.

Sanderson H, Laird B, Pope L, Brain R, Wilson C, Johnson D*, et al.* "Assessment of the environmental fate and effects of ivermectin in aquatic mesocosms." *Aquatic Toxicology* **2007**, *85*(4):229-240; doi:10.1016/j.aquatox.2007.08.011.

Sanderson H and Solomon KR. "Contaminants of Emerging Concern Challenge Ecotoxicology." *Environmental Toxicology and Chemistry* **2009**, *28*(7):1359-1360; doi:10.1897/09-119.1.

Sanderson H and Thomsen M. "Ecotoxicological quantitative structure-activity relationships for pharmaceuticals." *Bulletin of Environmental Contamination and Toxicology* **2007**, *79*(3):331-335; doi:10.1007/s00128-007-9249-9.

Sanderson H and Thomsen M. "Comparative analysis of pharmaceuticals versus industrial chemicals acute aquatic toxicity classification according to the United Nations classification system for chemicals: Assessment of the (Q)SAR predictability of pharmaceuticals acute aquatic toxicity and their predominant acute toxic mode-of-action." *Toxicology Letters* **2009**, *187*(2):84-93; doi:10.1016/j.toxlet.2009.02.003.

Sanderson JT, W. S, J.P. G, and M. VdB. "2-Chloro-s-triazine herbicides induce aromatase (CYP19) activity in H295R human adrenocortical carcinoma cells: A novel mechanism for estrogenicity?" *Toxicological Sciences* **2000**, *54*(1):121-127.

Sanderson K. "Drugs on tap as the nights draw in." *Chemistry World* **2005**, *2*(12):13.

Sanderson K. "Big interest in heavy drugs." *Nature* **2009**, *458*:269.

Sanderson K. "Forensic labs warn of deuterated drug threat." *Nature* **2009**, *458*:817.

Sandstrom MW, Kolpin DW, Thurman EM, and Zaugg SD. "Widespread detection of N,N-diethyl-m-toluamide in US streams: Comparison with concentrations of pesticides, personal care products, and other organic wastewater compounds." *Environmental Toxicology and Chemistry* **2005**, *24*(5):1029-1034; doi:10.1897/04-297R.1.

Sangjarusvichai H, Dungchai W, Siangproh W, and Chailapakul O. "Rapid separation and highly sensitive detection methodology for sulfonamides in shrimp using a monolithic column coupled with BDD amperometric detection." *Talanta* **2009**, *79*(4):1036-1041; doi:10.1016/j.talanta.2009.02.026.

Sangrungruang K, Chotchuang A, and Ueno R. "Comparative pharmacokinetics and bioavailability of oxytetracycline in giant tiger prawn." *Fisheries Science* **2004**, *70*(3):467-472; doi:10.1111/j.1444-2906.2004.00827.x.

Sangsupan HA, Radcliffe DE, Hartel PG, Jenkins MB, Vencill WK, and Cabrera ML. "Sorption and transport of 17β-estradiol and testosterone in undisturbed soil columns." *Journal of Environmental Quality* **2006**, *35*(6):2261-2272; doi:10.2134/jeq2005.0401.

Sano M. "Radicicol and geldanamycin prevent neurotoxic effects of anti-cancer drugs on cultured embryonic sensory neurons." *Neuropharmacology* **2001**, *40*(7):947-953; doi:10.1016/S0028-3908(01)00018-1.

Sanofi-Aventis. "Prescribing Information - Demerol (meperidine HCL) 50 mg tablets." Sanofi-Aventis Canada Inc., 104774, 23 March, 2006, 9 pp; http://www.sanofi-aventis.ca/products/en/demerol.pdf.

Sanseverino J, Eldridge ML, Layton AC, Easter JP, Yarbrough J, Schultz TW*, et al.* "Screening of Potentially Hormonally Active Chemicals using Bioluminescent Yeast Bioreporters." *Toxicological Sciences* **2008**, *In press*; doi:10.1093/toxsci/kfn229.

Sanseverino J, Gupta RK, Layton AC, Patterson SS, Ripp SA, Saidak L*, et al.* "Use of Saccharomyces cerevisiae BLYES expressing bacterial bioluminescence for rapid, sensitive detection of estrogenic compounds." *Applied and Environmental Microbiology* **2005**, *71*(8):4455-4460; doi:10.1128/AEM.71.8.4455-4460.2005.

Santarsiero A, Minelli L, Cutilli D, and Cappiello G. "Hygienic aspects related to burial." *Microchemical Journal* **2000**, *67*(1-3):135-139; doi:10.1016/S0026-265X(00)00109-0.

Santiago Valverde R, Sanchez Perez I, Franceschelli F, Martinez Galera M, and Gil Garcia MD. "Determination of photoirradiated tetracyclines in water by high-performance liquid chromatography with chemiluminescence detection based reaction of rhodamine B with cerium (IV)." *Journal of Chromatography A* **2007**, *1167*(1):85-94; doi:10.1016/j.chroma.2007.08.043.

Santillo D and Johnston P. "Effect thresholds and 'adequate control' of risks - The fatal flaws in the EU Council's position on authorisation within REACH." *Environmental Science and Pollution Research* **2006**, *13*(6):425-431; doi:10.1065/espr2006.08.336.

Santoro MIRM, Kassab NM, Singh AK, and Kedor-Hackmam ERM. "Quantitative determination of gatifloxacin, levofloxacin, lomefloxacin and pefloxacin fluoroquinolonic antibiotics in pharmaceutical preparations by high-performance liquid chromatography." *Journal of Pharmaceutical and Biomedical Analysis* **2006**, *40*(1):179-184; doi:10.1016/j.jpba.2005.06.018.

Santos EM, Paull GC, Van Look KJW, Workman VL, Holt WV, van Aerle R*, et al.* "Gonadal transcriptome responses and physiological consequences of exposure to oestrogen in breeding zebrafish (Danio rerio)." *Aquatic Toxicology* **2007**, *83*(2):134-142; doi:10.1016/j.aquatox.2007.03.019.

Santos JL, Aparicio I, and Alonso E. "Occurrence and risk assessment of pharmaceutically active compounds in wastewater treatment plants. A case study: Seville city (Spain)." *Environment International* **2007**, *33*(4):596-601; doi:10.1016/j.envint.2006.09.014.

Santos JL, Aparicio I, Alonso E, and Callejon M. "Simultaneous determination of pharmaceutically active compounds in wastewater samples by solid phase extraction and high-performance liquid chromatography with diode array and fluorescence detectors." *Analytica Chimica Acta* **2005**, *550*(1-2):116-122; doi:10.1016/j.aca.2005.06.064.

Santos JL, Aparicio I, Callejón M, and Alonso E. "Occurrence of pharmaceutically active compounds during 1-year period in wastewaters from four wastewater treatment plants in Seville (Spain)." *Journal of Hazardous Materials* **2009**, *164*(2-3):1509-1516; doi:10.1016/j.jhazmat.2008.09.073.

Santos LHMLM, Araújo AN, Fachini A, Pena A, Delerue-Matos C, and Montenegro MCBSM. "Ecotoxicological Aspects related to the presence of Pharmaceuticals in the Aquatic Environment." *Journal of Hazardous Materials* **2009**, *In Press*; doi:10.1016/j.jhazmat.2009.10.100.

Saper RB, Kales SN, and Thuppil V. "Metal content in ayurvedic medicines - Reply." *The Journal of the American Medical Association* **2009**, *301*(3).

Saper RB, Phillips RS, Sehgal A, Khouri N, Davis RB, Paquin J*, et al.* "Lead, Mercury, and Arsenic in US- and Indian-Manufactured Ayurvedic Medicines Sold via the Internet." *The Journal of the American Medical Association* **2008**, *300*(8):915-923; doi:10.1001/jama.300.8.915.

Sapkota A, Heidler J, and Halden RU. "Detection of triclocarban and two co-contaminating chlorocarbanilides in US aquatic environments using isotope dilution liquid chromatography tandem mass spectrometry." *Environmental Research* **2007**, *103*(1):21-29; doi:10.1016/j.envres.2006.03.006.

Sapkota A, Sapkota AR, Kucharski M, Burke J, McKenzie S, Walker P*, et al.* "Aquaculture practices and potential human health risks: Current knowledge and future priorities." *Environment International* **2008**, *34*(8):1215-1226; doi:10.1016/j.envint.2008.04.009.

Sapkota AR, Curriero FC, Gibson K, E., and Schwab KJ. "Antibiotic-Resistant Enterococci and Fecal Indicators in Surface Water and Groundwater Impacted by a Concentrated Swine Feeding Operation." *Environmental Health Perspectives* **2007**, *115*(7):1040-1045;

doi:10.1289/ehp.9770.

Sapkota AR, Lefferts LY, McKenzie S, and Walker P. "What do we feed to food-production animals? A review of animal feed ingredients and their potential impacts on human health." *Environmental Health Perspectives* **2007**, *115*(5):663-670; doi:10.1289/ehp.9760.

SAPS. "Miljöaspekter på läkemedel och läkemedelsförpackningar (Environmental aspects of medicines and packaging of medical products)." Apotekarsocieteten (Swedish Academy of Pharmaceutical Sciences), 24 April, 1997.

Sarafraz-Yazdi A, Mofazzeli F, and Es'haghi Z. "Directly Suspended Droplet Three Liquid Phase Microextraction of Diclofenac Prior to LC." *Chromatographia* **2008**, *67*(1):49-53; doi:10.1365/s10337-007-0449-6.

Sarantis H, Malkan S, and Archer L. "No More Toxic Tub: Getting Contaminants Out Of Children's Bath & Personal Care Products." The Campaign for Safe Cosmetics, 2009, 32 pp; http://www.safecosmetics.org/downloads/NoMoreToxicTub_Mar09Report.pdf.

Saravanabhavan G, Helleur R, and Hellou J. "GC-MS/MS measurement of natural and synthetic estrogens in receiving waters and mussels close to a raw sewage ocean outfall." *Chemosphere* **2009**, *76*(8):1156-1162; doi:10.1016/j.chemosphere.2009.04.006.

Saravanane R, Murthy DVS, and Krishnaiah K. "Bioaugmentation and treatment of cephalexin drug-based pharmaceutical effluent in an upflow anaerobic fluidized bed system." *Bioresource Technology* **2001**, *76*(3):279-281; doi:10.1016/S0960-8524(00)00121-8.

Saravanane R, Murthy DVS, and Krishnaiah K. "Treatment of anti-osmotic drug based pharmaceutical effluent in an upflow anaerobic fluidized bed system." *Waste Management* **2001**, *21*(6):563-568; doi:10.1016/S0956-053X(00)00109-4.

Saravia F and Frimmel FH. "Role of NOM in the performance of adsorption-membrane hybrid systems applied for the removal of pharmaceuticals." *Desalination* **2008**, *224*(1-3):168-171; doi:10.1016/j.desal.2007.02.089.

Sarewitz D. "How science makes environmental controversies worse." *Environmental Science & Policy* **2004**, *7*(5):385-403; doi:10.1016/j.envsci.2004.06.001.

Sarikaya R and Yüksel M. "Genotoxic assessment of oxcarbazepine and carbamazepine in drosophila wing spot test." *Food and Chemical Toxicology* **2008**, *46*(9):3159-3162; doi:10.1016/j.fct.2008.06.089.

Sarmah AK, Meyer MT, and Boxall ABA. "A global perspective on the use, sales, exposure pathways, occurrence, fate and effects of veterinary antibiotics (VAs) in the environment." *Chemosphere* **2006**, *65*(5):725-759; doi:10.1016/j.chemosphere.2006.03.026.

Sarmah AK, Northcott GL, Leusch FDL, and Tremblay LA. "A survey of endocrine disrupting chemicals (EDCs) in municipal sewage and animal waste effluents in the Waikato region of New Zealand." *Science of the Total Environment* **2006**, *355*(1-3):135-144; doi:10.1016/j.scitotenv.2005.02.027.

Sarmah AK, Northcott GL, and Scherr FF. "Retention of estrogenic steroid hormones by selected New Zealand soils." *Environment International* **2008**, *34*(6):749-755; doi:10.1016/j.envint.2007.12.017.

Saroglia M, Cecchini S, and Sargolia-Tervoa G. "Review of regulations and monitoring of Italian marine aquaculture." *Journal of Applied Ichthyology - Zeitschrift fur Angewandte Ichthyologie* **2000**, *16*(4-5):182-186.

Sarojini R, Nagabhushanam R, and Fingerman M. "In vivo evaluation of 5-hydroxytryptamine stimulation of the testes in the fiddler crab, Uca pugilator: A presumed action on the neuroendocrine system." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **1993**, *106*(2):321-325.

Sarojini R, Nagabhushanam R, and Fingerman M. "Mode of action of the neurotransmitter 5-hydroxytryptamine in stimulating ovarian maturation in the red swamp crayfish, Procambarus clarkii: an in vivo and in vitro study." *Journal of Experimental Zoology* **1995**, *271*:395-400.

Sarter S, Kha Nguyen HN, Hung LT, Lazard J, and Montet D. "Antibiotic resistance in Gram-negative bacteria isolated from farmed catfish." *Food Control* **2007**, *18*(11):1391-1396; doi:10.1016/j.foodcont.2006.10.003.

Sassman SA and Lee LS. "Sorption of three tetracyclines by several soils: assessing the role of pH and cation exchange." *Environmental Science & Technology* **2005**, *39*(19):7452-7459; doi:10.1021/es0480217.

Sassman SA and Lee LS. "Sorption and degradation in soils of veterinary ionophore antibiotics: monensin and lasalocid." *Environmental Toxicology and Chemistry* **2007**, *26*(8):1614-1621; doi:10.1897/07-073R.1.

Sassman SA, Sarmah AK, and Lee LS. "Sorption of tylosin A, D, and A-aldol and degradation of tylosin A in soils." *Environmental Toxicology and Chemistry* **2007**, *26*(8):1629-1635; doi:10.1897/07-007R.1.

Sasu S. 2009, "De Facto of Drugs in our Drinking Water." Modern Ghana News, 2 pp; http://www.modernghana.com/news/200520/50/de-facto-of-drugs-in-our-drinking-water.html.

Satinsky D, Neto I, Solich P, Sklenarova H, Conceicao M, Montenegro BSM*, et al.* "Sequential injection chromatographic determination of paracetamol, caffeine, and acetylsalicylic acid in pharmaceutical tablets." *Journal of Separation Science* **2004**, *27*(7-8):529-536; doi:10.1002/jssc.200301644.

Satoh K, Nonaka R, Ohyama K, and Nagai F. "Androgenic and antiandrogenic effects of alkylphenols and parabens assessed using the reporter gene assay with stably transfected CHO-K1 cells (AR-EcoScreen System)." *Journal of Health Science* **2005**, *51*(5):557-568.

Sattelberger R, Gans O, and Martinex E. "Veterinärantibiotika in wirtschaftsdünger und boden [Veterinarian Antibiotics in Wirtschaftsdunger and Ground]." Wien, 2005, 103 pp; http://www.umweltbundesamt.at/fileadmin/site/publikationen/BE272.pdf.

Sauerborn R, Polancec DS, Zaja R, and Smital T. "Identification of the multidrug resistance-associated protein (mrp) related gene in red mullet (Mullus barbatus)." *Marine Environmental Research* **2004**, *58*(2-5):199-204; doi:10.1016/j.marenvres.2004.03.120.

Savarie PJ, Mathies TC, and Fagerstone KA. "Flotation materials for aerial delivery of acetaminophen toxic baits to brown treesnakes." presented at USDA National Wildlife Research Center Symposia Managing Vertebrate Invasive Species, at Lincoln, NB, 2007; http://digitalcommons.unl.edu/cgi/viewcontent.cgi?article=1045&context=nwrcinvasive.

Savarie PJ, Shivik JA, White GC, Hurley JC, and Clark L. "Use of acetaminophen for large-scale control of brown treesnakes." *Journal of Wildlife Management* **2001**, *65*(2):356-365.

Savarie PJ, York JL, Hurley JC, and Volz S. "Testing the dermal and oral toxicity of selected chemicals to brown tree snakes." in Proceedings of the 19th Vertebrate Pest Conference, Davis, CA, 2000, http://www.aphis.usda.gov/ws/nwrc/is/00pubs/00-66.PDF.

Scarano LJ, Calabrese EJ, Kostecki PT, Baldwin LA, and Leonard DA. "Evaluation of a rodent peroxisome proliferator in two species of freshwater fish: Rainbow trout (Onchorynchus mykiss) and Japanese medaka (Oryzias latipes)." *Ecotoxicology and Environmental Safety* **1994**, *29*(1):13-19; doi:10.1016/0147-6513(94)90026-4.

Scarano LJ, Calabrese EJ, Kostecki PT, Baldwin LA, and Leonard DA. "Volume 29, Number 1 (1994), in the article "Evaluation of a Rodent Peroxisome Proliferator in Two Species of Freshwater Fish: Rainbow Trout (Onchorynchus mykiss) and Japanese Medaka (Oryzias liatipes)," by Louis J. Scarano, Edward J. Calabrese, Paul T. Kostecki, Linda A. Baldwin, and Denise A. Leonard, pages 13-19." *Ecotoxicology and Environmental Safety* **1995**, *30*(2):219-219; doi:10.1006/eesa.1995.1026.

Scarth JP. "Modulation of the growth hormone–insulin-like growth factor (GH–IGF) axis by pharmaceutical, nutraceutical and environmental xenobiotics: An emerging role for xenobiotic-metabolizing enzymes and the transcription factors regulating their expression. A review." *Xenobiotica* **2006**, *36*(2/3):119-218; doi:10.1080/00498250600621627.

SCBWMI. "Environmental Emergence of Triclosan." Santa Clara Basin Watershed Management Initiative (SCBWMI), Workgroup EC, Ed., January, 2006, 11 pp; http://www.scbwmi.org/PDFs/WMI_Triclosan_FinalJan06.pdf.

SCCWRP "Project: Emerging Contaminant Effects on Coastal Fish." Web Page maintained by Southern California Coastal Water Research Project 2009, http://www.sccwrp.org/view.php?id=278.

Schaefer A. "Zebrafish assay detects endocrine disrupters." *Environmental Science & Technology* **2000**:450A.

Schaefer A. "Fluoroquinolones' fate measured in waste and natural waters." *Environmental Science & Technology* **2002**, (1 September):339A-340A; doi:10.1021/es022405k.

Schaeffer A, Hollert H, Ratte H, Roß-Nickoll M, Filser J, Matthies M*, et al.* "An indispensable asset at risk: Merits and needs of chemicals-related environmental sciences." *Environmental Science and Pollution Research* **2009**, *16*(4):410-413; doi:10.1007/s11356-009-0157-x.

Schafer AI and Beder S. "Relevance of the precautionary principle in water recycling." *Desalination* **2006**, *187*(1-3):241-252; doi:10.1016/j.desal.2005.04.083.

Schäfer AI, Nghiem LD, and Waite TD. "Removal of the natural hormone estrone from aqueous solutions using nanofiltration and

reverse osmosis." *Environmental Science & Technology* **2003**, *37*:182-188; doi:10.1021/es0102336.

Schafers C, Teigeler M, Wenzel A, Maack G, Fenske M, and Segner H. "Concentration- and time-dependent effects of the synthetic estrogen, 17α-ethinylestradiol, on reproductive capabilities of the zebrafish, Danio rerio." *Journal of Toxicology and Environmental Health, Part A: Current Issues* **2007**, *70*(9-10):768-779; doi:10.1080/15287390701236470.

Schallenberg M and Armstrong A. "Assessment of antibiotic activity in surface water of the lower Taieri Plain and impacts on aquatic bacteria in Lake Waipori, South Otago, New Zealand." *New Zealand Journal of Marine and Freshwater Research* **2004**, *38*(1):19-28.

Schauss K, Focks A, Heuer H, Kotzerke A, Schmitt H, Thiele-Bruhn S*, et al.* "Analysis, fate and effects of the antibiotic sulfadiazine in soil ecosystems." *TRAC Trends in Analytical Chemistry* **2009**, *28*(5):612-618; doi:10.1016/j.trac.2009.02.009.

Scheindlin S. "Transdermal Drug Delivery: Past, Present, Future." *Molecular Interventions* **2004**, *4*(6):308-312; doi:10.1124/mi.4.6.1.

Scherpenisse P and Bergwerff AA. "Determination of residues of malachite green in finfish by liquid chromatography tandem mass spectrometry." *Analytica Chimica Acta* **2005**, *529*(1-2):173-177; doi:10.1016/j.aca.2004.08.009.

Scherr FF, Sarmah AK, Di HJ, and Cameron KC. "Modeling Degradation and Metabolite Formation Kinetics of Estrone-3-sulfate in Agricultural Soils." *Environmental Science & Technology* **2008**, *42*(22):8388-8394; doi:10.1021/es801850a.

Scherr FF, Sarmah AK, Di HJ, and Cameron KC. "Degradation and metabolite formation of 17[beta]-estradiol-3-sulphate in New Zealand pasture soils." *Environment International* **2009**, *35*(2):291-297; doi:10.1016/j.envint.2008.07.002.

Scherr FF, Sarmah AK, Di HJ, and Cameron KC. "Sorption of estrone and estrone-3-sulfate from $CaCl_2$ solution and artificial urine in pastoral soils of new zealand." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2564-2571; doi:10.1897/08-534.1.

Scherrer M and Daschner F. "Practice and problems in the disposal of cytostatic agents." *Onkologie* **1997**, *20*(6):502-507.

Schettgen C, Schmidt A, and Butte W. "Variation of accumulation and clearance of the predioxin 5-chloro-2-(2,4-dichlorophenoxy)-phenol (Irgasan DP300, Triclosan) with the pH of water." *Organohalogen Compounds* **1999**, *43*:49-52.

Schettler T. "Toward an Ecological View of Health: An Imperative for the Twenty-First Century." Robert Wood Johnson Foundation, September, 2006.

Schettler T. "Human exposure to phthalates via consumer products." *International Journal of Andrology* **2006**, *29*(1):134-139; doi:10.1111/j.1365-2605.2005.00567.x.

Schettler T. "Toward an ecological view of health: An imperative for the twenty-first century." presented at Designing the 21st Century Hospital: Environmental Leadership for Healthier Patients and Facilities, September, 2006; http://www.premierinc.com/quality-safety/tools-services/safety/topics/construction/downloads/designing-21st-century-hospital-2006.pdf.

Scheurell M, Franke S, Shah RM, and Hühnerfuss H. "Occurrence of diclofenac and its metabolites in surface water and effluent samples from Karachi, Pakistan." *Chemosphere* **2009**, *77*(6):870-876; doi:10.1016/j.chemosphere.2009.07.066.

Scheurer M, Brauch H-J, and Lange F. "Analysis and occurrence of seven artificial sweeteners in German waste water and surface water and in soil aquifer treatment (SAT)." *Analytical and Bioanalytical Chemistry* **2009**, *394*(6):1585-1594; doi:10.1007/s00216-009-2881-y.

Scheurer M, Sacher F, and Brauch H-J. "Occurrence of the antidiabetic drug metformin in sewage and surface waters in Germany." *Journal of Environmental Monitoring* **2009**, *11*(9):1608-1613; doi:10.1039/b909311g.

Scheytt T, Grams S, Rejman-Rasinski E, Heberer T, and Stan H-J. "Pharmaceuticals in groundwater: clofibric acid beneath sewage farms south of Berlin, Germany." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 5, pp 84-99; doi:10.1021/bk-2001-0791.ch005; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Scheytt T and Mersmann P. "Tracing down pharmaceuticals in the unsaturated zone." *Geophysical Research Abstracts* **2006**, *8*:02003.

Scheytt T, Mersmann P, Leidig M, Pekdeger A, and Heberer T. "Transport of pharmaceutically active compounds in saturated laboratory columns." *Ground Water* **2004**, *42*(5):767-773; doi:10.1111/j.1745-6584.2004.tb02860.x.

Scheytt T, Mersmann P, Lindstadt R, and Heberer T. "Determination of sorption coefficients of pharmaceutically active substances carbamazepine, diclofenac, and ibuprofen, in sandy sediments." *Chemosphere* **2005**, *60*(2):245-253; doi:10.1016/j.chemosphere.2004.12.042.

Scheytt T, Mersmann P, Lindstädt R, and Heberer T. "1-Octanol/Water Partition Coefficients of 5 Pharmaceuticals from Human Medical Care: Carbamazepine, Clofibric Acid, Diclofenac, Ibuprofen, and Propyphenazone." *Water, Air, & Soil Pollution* **2005**, *165*(1):3-11; doi:10.1007/s11270-005-3539-9.

Scheytt T, Mersmann P, Rejman-Rasinski E, and These A. "Tracing Pharmaceuticals in the Unsaturated Zone (10 pp)." *Journal of Soils and Sediments* **2007**, *7*(2):75-84; doi:10.1065/jss2006.12.200.

Scheytt TJ, Mersmann P, and Heberer T. "Mobility of pharmaceuticals carbamazepine, diclofenac, ibuprofen, and propyphenazone in miscible-displacement experiments." *Journal of Contaminant Hydrology* **2006**, *83*(1-2):53-69; doi:10.1016/j.jconhyd.2005.11.002.

Scheytt TJ, Mersmann P, Rejman-Rasinski E, and These A. "Tracing Pharmaceuticals in the Unsaturated Zone." *Journal of Soils and Sediments* **2007**, *7*(2):75-84; doi:10.1065/jss2006.12.200.

Schiermeier Q. "Studies assess risks of drugs in water cycle." *Nature* **2003**, *424*(6944):5-5; doi:10.1038/424005a.

Schiffer B, Daxenberger A, Meyer K, and Meyer HHD. "The fate of trenbolone acetate and melengestrol acetate after application as growth promoters in cattle: Environmental studies." *Environmental Health Perspectives* **2001**, *109*(11):1145-1151.

Schiffer B, Totsche KU, Jann S, Kogel-Knabner I, Meyer K, and Meyer HHD. "Mobility of the growth promoters trenbolone and melengestrol acetate in agricultural soil: column studies." *Science of the Total Environment* **2004**, *326*(1-3):225-237; doi:10.1016/j.scitotenv.2004.01.003.

Schilirò T, Pignata C, Rovere R, Fea E, and Gilli G. "The endocrine disrupting activity of surface waters and of wastewater treatment plant effluents in relation to chlorination." *Chemosphere* **2009**, *75*(3):335-340; doi:10.1016/j.chemosphere.2008.12.028.

Schirmer K, Bopp S, and Gehrhardt J. "Use of passive sampling devices in toxicity assessment of groundwater." in *Comprehensive Analytical Chemistry*, Greenwood R, Mills G and Vrana B, Eds., Elsevier; 2007, Series Vol 48, Chapter 18, pp 393-406; http://books.google.com/books?hl=en&lr=&id=A3MxOboEY3AC&oi=fnd&pg=PA393&dq=fick+pharmaceuticals+fish+exposure&ots=FwjEnoD-UU&sig=c2RiL4GBi-yJBh5e9itut41FNCE.

Schirmer K and Schirmer M. "Who is chasing whom? A call for a more integrated approach to reduce the load of micro-pollutants in the environment." *Water Science and Technology* **2008**, *57*(1):145-150; doi:10.2166/wst.2008.826.

Schirmer M, Strauch G, Reinstorf F, and Schirmer K. "Urbane Hydrogeologie – Herausforderungen für Forschung und Praxis [Urban hydrogeology – challenges in research and practice]." *Grundwasser* **2007**, *12*(3):178-188; doi:10.1007/s00767-007-0034-9.

Schittko S, Putschew A, and Jekel M. "Bank filtration: a suitable process for the removal of iodinated X-ray contrast media?" *Water Science and Technology* **2004**, *50*(5):261-268.

Schlenk D. "Are steroids really the cause for fish feminization? A mini-review of in vitro and in vivo guided TIEs." *Marine Pollution Bulletin* **2008**, *57*(6-12):250-254; doi:10.1016/j.marpolbul.2008.01.008.

Schlenk D, Sapozhnikova Y, Irwin MA, Xie L, Hwang W, Reddy S*, et al.* "In vivo bioassay-guided fractionation of marine sediment extracts from the southern California Bight, USA, for estrogenic activity." *Environmental Toxicology and Chemistry* **2005**, *24*(11):2820-2826; doi:10.1897/05-116R.1.

Schlenker G, Birkelbach C, and Glatzel PS. "Analysis of influence of temperature on the stability of sexual steroids in faeces of cows." *Berliner und Munchener Tierarztliche Wochenschrift* **1999**, *112*(12):459-464.

Schlenker G and Muller W. "Contamination of environment by pharmaceuticals and its connected hazards." *Tierarztliche Umschau* **2001**, *56*(10):538-+.

Schlenker G, Muller W, Birkelbach C, and Glatzel PS. "Experimental investigations into influence of Escherichia coli and Clostridium perfringens on the steroid estrone." *Berliner und Munchener Tierarztliche Wochenschrift* **1999**, *112*(1):14-17.

Schlueter A, Szuepanowski R, Kurz N, Schneiker S, Krahn I, and Puehler A. "Erythromycin resistance-conferring plasmid pRSB105, isolated from a sewage treatment plant, harbors a new macrolide resistance determinant, an integron-containing Tn402-like element, and a large region of unknown function." *Applied and Environmental Microbiology* **2007**, *73*(6):1952-1960.

Schlumpf M, Cotton B, Conscience M, Haller V, Steinmann B, and Lichtensteiger W. "In vitro and in vivo estrogenicity of UV screens." *Environmental Health Perspectives* **2001**, *109*(3):239-244.

Schlumpf M, Durrer S, Faass O, Ehnes C, Fuetsch M, Gaille C*, et al.* "Developmental toxicity of UV filters and environmental exposure: a review." *International Journal of Andrology* **2008**, *31*(2):144-151; doi:10.1111/j.1365-2605.2007.00856.x.

Schlumpf M, Kypke K, Vot C, Birchler M, Durrer S, Faass O*, et al.* "Endocrine active UV filters: Developmental toxicity and exposure through breast milk." *Chimia* **2008**, *62*(5):345-351; doi:10.2533/chimia.2008.345.

Schlumpf M, Schmid P, Durrer S, Conscience M, Maerkel K, Henseler M*, et al.* "Endocrine activity and developmental toxicity of cosmetic UV filters--an update." *Toxicology* **2004**, *205*(1-2):113-122; doi:10.1016/j.tox.2004.06.043.

Schlüsener M, Loffler D, and Ternes T. "List of relevant PPs." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 63 pp; http://www.knappe-eu.org/fichiers/44-Knappe%20D1.1%20List%20of%20the%20relevant%20PPs.pdf.

Schlüsener MP. "Fate, pathways and methods for the determination of selected antibiotics and steroid hormones in the environment." Doctoral Dissertation, University of Duisburg-Essen, Campus Essen, Institut für Umweltanalytik und Angewandte Geochemie, 2006. 159 pp; http://duepublico.uni-duisburg-essen.de/servlets/DocumentServlet?id=14693.

Schlusener MP and Bester K. "Determination of steroid hormones, hormone conjugates and macrolide antibiotics in influents and effluents of sewage treatment plants utilising high-performance liquid chromatography/tandem mass spectrometry with electrospray and atmospheric pressure chemical ionization." *Rapid Communications in Mass Spectrometry* **2005**, *19*(22):3269-3278; doi:10.1002/rcm.2189.

Schlusener MP and Bester K. "Persistence of antibiotics such as macrolides, tiamulin and salinomycin in soil." *Environmental Pollution* **2006**, *143*(3):565-571; doi:10.1016/j.envpol.2005.10.049.

Schlüsener MP and Bester K. "Behavior of Steroid Hormones and Conjugates During Wastewater Treatment - A Comparison of Three Sewage Treatment Plants." *CLEAN - Soil, Air, Water* **2008**, *36*(1):25-33; doi:10.1002/clen.200700096.

Schlusener MP, Bester K, and Spiteller M. "Determination of antibiotics such as macrolides, ionophores and tiamulin in liquid manure by HPLC-MS/MS." *Analytical and Bioanalytical Chemistry* **2003**, *375*(7):942-947; doi:10.1007/s00216-003-1838-9.

Schlusener MP, Spiteller M, and Bester K. "Determination of antibiotics from soil by pressurized liquid extraction and liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2003**, *1003*(1-2):21-28; doi:10.1016/S0021-9673(03)00737-4.

Schlüsener MP, von Arb MA, and Bester K. "Elimination of macrolides, tiamulin, and salinomycin during manure storage." *Archives of Environmental Contamination and Toxicology* **2006**, *51*(1):21-28; doi:10.1007/s00244-004-0240-8.

Schlüter A, Szczepanowski R, Pühler A, and Top EM. "Genomics of IncP-1 antibiotic resistance plasmids isolated from wastewater treatment plants provides evidence for a widely accessible drug resistance gene pool." *FEMS Microbiology Reviews* **2007**, *31*(4):449-477; doi:10.1111/j.1574-6976.2007.00074.x.

Schmeiser HH, Gminski R, and Mersch-Sundermann V. "Evaluation of health risks caused by musk ketone." *International Journal of Hygiene and Environmental Health* **2001**, *203*(4):293-299; doi:10.1078/1438-4639-00047.

Schmid P, Kohler M, Gujer E, Zennegg M, and Lanfranchi M. "Persistent organic pollutants, brominated flame retardants and synthetic musks in fish from remote alpine lakes in Switzerland." *Chemosphere* **2007**, *67*(9):S16-21; doi:10.1016/j.chemosphere.2006.05.080.

Schmid T, Gonzalez-Valero J, Rufli H, and Dietrich DR. "Determination of vitellogenin kinetics in male fathead minnows (Pimephales promelas)." *Toxicology Letters* **2002**, *131*(1-2):65-74; doi:10.1016/S0378-4274(02)00043-7.

Schmid T, Gonzalez-Valero J, Rufli H, and Dietrich DR. "Determination of Vitellogenin Kinetics in Male Fathead Minnows (Pimephales Promelas)." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp 115-130; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Schmidt AH. "Validated HPLC method for the determination of residues of acetaminophen, caffeine, and codeine phosphate on swabs collected from pharmaceutical manufacturing equipment in support of cleaning validation." *Journal of Liquid Chromatography & Related Technologies* **2006**, *29*(11):1663-1673; doi:10.1080/10826070600678381.

Schmidt AS, Bruun MS, Dalsgaard I, Pedersen K, and Larsen JL. "Occurrence of antimicrobial resistance in fish-pathogenic and environmental bacteria associated with four Danish rainbow trout farms." *Applied and Environmental Microbiology* **2000**, *66*(11):4908-4915.

Schmidt B, Ebert J, Lamshöft M, Thiede B, Schumacher-Buffel R, Ji R*, et al.* "Fate in soil of ^{14}C-sulfadiazine residues contained in the manure of young pigs treated with a veterinary antibiotic." *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants and Agricultural Wastes* **2008**, *43*(1):8-20; doi:10.1080/03601230701734824.

Schmidt CK, Fleig M, Sacher F, and Brauch H-J. "Occurrence of aminopolycarboxylates in the aquatic environment of Germany." *Environmental Pollution* **2004**, *131*(1):107-124; doi:10.1016/j.envpol.2004.01.013.

Schmidt CK, Lange FT, and Brauch H-J. "Assessing the Impact of Different Redox Conditions and Residence Times on the Fate of Organic Micropollutants during Riverbank Filtration." 11 pp; https://info.ngwa.org/GWOL/pdf/042379992.pdf.

Schmidt CW. "The Yuck Factor: When Disgust Meets Discovery." *Environmental Health Perspectives* **2008**, *116*(12):A525-A527.

Schmidt Ø. 2008, "Sjekker kloakken din for narkotika [Checks sewer account for Drug: Sewage Researchers have started a project in the capital in order to reveal whether you use drugs]." VG Nett, http://www.vg.no/nyheter/innenriks/artikkel.php?artid=522203.

Schmidt-Bäumler K, Heberer T, and Stan H-J. "Occurrence and Distribution of Organic Contaminants in the Aquatic System in Berlin.Part II: Substituted Phenols in Berlin Surface Water." *Acta Hydrochimica et Hydrobiologica* **1999**, *27*(3):143-149; doi:10.1002/(SICI)1521-401X(199905)27:3<143::AID-AHEH143>3.0.CO;2-9.

Schmitt C, Oetken M, Dittberner O, Wagner M, and Oehlmann J. "Endocrine modulation and toxic effects of two commonly used UV screens on the aquatic invertebrates Potamopyrgus antipodarum and Lumbriculus variegatus." *Environmental Pollution* **2008**, *152*(2):322-329; doi:10.1016/j.envpol.2007.06.031.

Schmitt H. "The effects of veterinary antibiotics on soil microbial communities." Doctoral Dissertation, Universiteit Utrecht, Faculteit Biologie, IRAS, 2005. 187 pp; http://igitur-archive.library.uu.nl/dissertations/2005-0616-200013/index.htm.

Schmitt H, Haapakangas H, and van Beelen P. "Effects of antibiotics on soil microorganisms: time and nutrients influence pollution-induced community tolerance." *Soil Biology and Biochemistry* **2005**, *37*(10):1882-1892; doi:10.1016/j.soilbio.2005.02.022.

Schmitt H and Römbke J. "The ecotoxicological effects of pharmaceuticals in the terrestrial environment – a review." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 18, pp 285-303; doi:10.1007/978-3-540-74664-5_18; http://www.springerlink.com/content/x233878p873618v7/?p=97dfb90332264725bf4ef8a85570afc6&pi=17.

Schmitt H, Stoob K, Hamscher G, Smit E, and Seinen W. "Tetracyclines and tetracycline resistance in agricultural soils: Microcosm and field studies." *Microbial Ecology* **2006**, *51*(3):267-276; doi:10.1007/s00248-006-9035-y.

Schmitt H, Van Beelen P, Tolls J, and Van Leeuwen CL. "Pollution-induced community tolerance of soil microbial communities caused by the antibiotic sulfachloropyridazine." *Environmental Science & Technology* **2004**, *38*(4):1148-1153; doi:10.1021/es034685p.

Schmitt-Jansen M, Bartels P, Adler N, and Altenburger RPaodaipp. "Phytotoxicity assessment of diclofenac and its phototransformation products." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1389-1396; doi:10.1007/s00216-006-0825-3.

Schnaitman CA. "Phage biology: Coming of age." *Science* **2002**, *298*(5602):2329; doi:10.1126/science.298.5602.2329.

Schneider C. "Synthetische organische Spurenstoffe in der aquatischen Umwelt und ihr Verhalten im Klärprozess [Synthetic organic trace substances in the aquatic environment and their behaviour in wastewater treatment plants]." Doctoral Dissertation, Universität Stuttgart / Fakultät Bauingenieur- und Umweltingenieurwissenschaften. Institut für Siedlungswasserbau, Wassergüte- und Abfallwirtschaft, 2005. http://elib.uni-stuttgart.de/opus/volltexte/2006/2575.

Schneider C, Scholer HF, and Schneider RJ. "A novel enzyme-linked immunosorbent assay for ethynylestradiol using a long-chain biotinylated EE2 derivative." *Steroids* **2004**, *69*(4):245-253; doi:10.1016/j.steroids.2004.01.003.

Schneider MJ, Braden SE, Reyes-Herrera I, and Donoghue DJ. "Simultaneous determination of fluoroquinolones and tetracyclines in chicken muscle using HPLC with fluorescence detection." *Journal of Chromatography B: Biomedical Sciences and Applications* **2007**, *846*(1-2):8-13; doi:10.1016/j.jchromb.2006.08.005.

Schneider MJ, Darwish AM, and Freeman DW. "Simultaneous multiresidue determination of tetracyclines and fluoroquinolones in catfish muscle using high performance liquid chromatography with fluorescence detection." *Analytica Chimica Acta* **2007**, *586*(1-2):269-274; doi:10.1016/j.aca.2006.09.025.

Schneider MJ, Vazquez-Moreno L, Bermudez-Almada MD, Guardado RB, and Ortega-Nieblas M. "Multiresidue determination of fluoroquinolones in shrimp by liquid chromatography-fluorescence-mass spectrometry." *Journal of AOAC International* **2005**, *88*(4):1160-1166.

Schneider MK, Brunner F, Hollis JM, and Stamm C. "Towards a hydrological classification of European soils: preliminary test of its predictive power for the base flow index using river discharge data." *Hydrology and Earth System Sciences* **2007**, *4*:831-861.

Schneider MK, Stamm C, and Fenner K. "A simple scoring system to identify exposure scenarios for veterinary medicines at the European level." Office for Official Publications of the European Communities, Pistocchi A, Ed., Luxembourg, 2006.

Schneider MK, Stamm C, and Fenner K. "Selecting scenarios to assess exposure of surface waters to veterinary medicines in Europe." *Environmental Science & Technology* **2007**, *41*(13):4669-4676; doi:10.1021/es062486a.

Schneider RJ. "Plant Uptake of Pharmaceuticals from Soil: Determined by ELISA." in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press; Boca Raton, FL, 2007, Chapter 8, pp 179-198; http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Treatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#PPR8,M1.

Schneider S, Ait-m-bark Z, Schummer C, Lemmer P, Yegles M, Appenzeller B*, et al.* "Case Report: Determination of Fentanyl in Sweat and Hair of a Patient using Transdermal Patches." *Journal of Analytical Toxicology* **2008**, *32*(3):260-264.

Schnell S, Bols NC, Barata C, and Porte C. "Single and combined toxicity of pharmaceuticals and personal care products (PPCPs) on the rainbow trout liver cell line RTL-W1." *Aquatic Toxicology* **2009**, *93*(4):244-252; doi:10.1016/j.aquatox.2009.05.007.

Schnell S, Kawano A, Porte C, Lee LEJ, and Bols NC. "Effects of ibuprofen on the viability and proliferation of rainbow trout liver cell lines and potential problems and interactions in effects assessment." *Environmental Toxicology* **2009**, *24*(2):157-165; doi:10.1002/tox.20410.

Schnell S, Martin-Skilton R, Fernandes D, and Porte C. "The Interference of Nitro- and Polycyclic Musks with Endogenous and Xenobiotic Metabolizing Enzymes in Carp: An In Vitro Study." *Environmental Science & Technology* **2009**, *In Press*; doi:10.1021/es902128x.

Schnick RA. "Use of Chemicals in Fish Management and Fish Culture: Past and Future." in *Xenobiotics in Fish*, Smith DJ, Gingerich WH and Beconi-Barker MG, Eds., Kluwer Academic/Plenum Publishers; New York, 1999, Chapter 1, pp 1-15; http://bookshop.blackwell.co.uk/jsp/id/Xenobiotics_in_Fish/9780306461897#synopsis.

Schnoebelen D, Kolpin D, Barber L, Furlong E, Meyer M, and Skopec M. "Chemicals of Concern: Iowa's First Field Research Area for Emerging Contaminants." The Iowa Policy Project, April, 2006, 19 pp; http://www.iowapolicyproject.com/2006docs/060419-USGS-FullReport.pdf.

Schnoor JL. "NEWater Future?" *Environmental Science & Technology* **2009**, *43*(17):6441-6442; doi:10.1021/es902153f.

Schoenfuss HL, Bartell SE, Bistodeau TB, Cediel RA, Grove KJ, Zintek L*, et al.* "Impairment of the reproductive potential of male fathead minnows by environmentally relevant exposures to 4-nonylphenolf [*sic*]." *Aquatic Toxicology* **2008**, *86*(1):91-98; doi:10.1016/j.aquatox.2007.10.004.

Scholz NL, Truelove NK, French BL, Berejikian BA, Quinn TP, Casillas E*, et al.* "Diazinon disrupts antipredator and homing behaviors in chinook salmon (Oncorhynchus tsawytscha)." *Canadian Journal of Fisheries and Aquatic Sciences* **2000**, *57*(9):1911-1918.

Scholz S, Fischer S, Gündel U, Küster E, Luckenbach T, and Voelker D. "The zebrafish embryo model in environmental risk assessment—applications beyond acute toxicity testing." *Environmental Science and Pollution Research* **2008**, *15*(5):394-404; doi:10.1007/s11356-008-0018-z.

Scholz S and Gutzeit HO. "17-α-ethinylestradiol affects reproduction, sexual differentiation and aromatase gene expression of the medaka (Oryzias latipes)." *Aquatic Toxicology* **2000**, *50*(4):363-373; doi:10.1016/S0166-445X(00)00090-4.

Schoof RA and Houkal D. "The evolving science of chemical risk assessment for land-applied biosolids." *Journal of Environmental Quality* **2005**, *34*:114-121.

Schowanek D, David H, Francaviglia R, Hall J, Kirchmann H, Krogh PH*, et al.* "Probabilistic risk assessment for linear alkylbenzene sulfonate (LAS) in sewage sludge used on agricultural soil." *Regulatory Toxicology and Pharmacology* **2007**, *49*(3):245-259; doi:10.1016/j.yrtph.2007.09.001.

Schowanek D and Webb S. "Exposure simulation for pharmaceuticals in European surface waters with GREAT-ER." *Toxicology Letters* **2002**, *131*(1-2):39-50; doi:10.1016/S0378-4274(02)00064-4.

Schowanek D and Webb S. "Exposure Simulation for Pharmaceuticals in European Surface Waters with GREAT-ER." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp 63-78; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Schrab GE, Brown KW, and Donnelly KC. "Acute and genetic toxicity of municipal landfill leachate." *Water, Air, & Soil Pollution* **1993**, *69*(1-2):99-112; doi:10.1007/BF00478351.

Schrag SJ and Perrot V. "Reducing antibiotic resistance." *Nature* **1996**, *381*(6578):120-121; doi:10.1038/381120b0.

Schramm C, Gans O, Uhl M, Grath J, Scharf S, Zieritz I*, et al.* "Carbamazepin und koffein – potenzielle screening parameter für verunreinigungen des grundwassers durch kommunales abwasser? [Carbamazepine and koffein - potential screening parameter for impurities of the groundwater through local waste water?]." REP-0061, Wien, 2006, http://www.umweltbundesamt.at/fileadmin/site/publikationen/REP0061.pdf.

Schramm KW, Kaune A, Beck B, Thumm W, Behechti A, Kettrup A*, et al.* "Acute toxicities of 5 nitromusk compounds in daphnia, alfae and photoluminescent bacteria." *Water Research* **1996**, *30*(10):2247-2250; doi:10.1016/0043-1354(96)00101-7.

Schrap S, Rijs GBJ, Beek MA, Maaskant JFN, Staeb J, Stroomberg G*, et al.* "Humane en veterinaire geneesmiddelen in Nederlands oppervlaktewater en afvalwater [Human and veterinary medicines in Dutch surface water and wastewater: a screening in 2002]." RIZA Rijksinstituut voor Integraal Zoetwaterbeheer en Afvalwaterbehandeling, RIZA rapport 2003.023, Lelystad, The Netherlands, 19 September, 2003, 87 pp; www.riza.nl, http://library.wur.nl/WebQuery/hydrotheek/lang/1699478, http://www.verkeerenwaterstaat.nl/kennisplein/2/2/227152/Humane_en_veterinaire_geneesmiddelen_in_Nederlands_oppervlaktewater_en.pdf.

Schrapo SM, Rijs GBJ, Beek MA, Maaskant JFN, Staeb J, Stroomberg G*, et al.* "Humane en veterinaire geneesmiddelen in Nederlands oppervlaktewater en afvalwater." Directoraat-Generall Rijkswaterstaat, RIZA rapport 2003.023, 2002, http://www.riza.nl/publicaties/riza_rapporten/pdf_rapport/rr_2003_023.pdf.

Schreer A. "Application of rainbow trout hepatocyte cultures to study gene expression due to estrogenic compounds." Doctoral Dissertation, Dresden, Germany, 2005. 120 pp; http://www.ufz.de/data/diss_02_20052855.pdf.

Schreiber F and Szewzyk U. "Environmentally Relevant Concentrations of Pharmaceuticals Influence the Initial Adhesion of Bacteria." *Aquatic Toxicology* **2008**, *87*(4):227-233; doi:10.1016/j.aquatox.2008.02.002.

Schreiber IM and Mitch WA. "Occurrence and fate of nitrosamines and nitrosamine precursors in wastewater-impacted surface waters using boron as a conservative tracer." *Environmental Science & Technology* **2006**, *40*(10):3203-3210; doi:10.1021/es052078r.

Schreurs RHMM, Legler J, Artola-Garicano E, Sinnige TL, Lanser PH, Seinen W*, et al.* "In vitro and in vivo antiestrogenic effects of polycyclic musks in zebrafish." *Environmental Science & Technology* **2004**, *38*(4):997-1002; doi:10.1021/es034648y.

Schreurs RHMM, Quaedackers ME, Seinen W, and van der Burg B. "Transcriptional Activation of Estrogen Receptor ERα and ERβ by Polycyclic Musks Is Cell Type Dependent." *Toxicology and Applied Pharmacology* **2002**, *183*(1):1-9; doi:10.1006/taap.2002.9458.

Schreurs RHMM, Sonneveld E, Janse JHJ, Seinen W, and van der Burg B. "Interaction of polycyclic musks and UV filters with the estrogen receptor (ER), androgen receptor (AR) and progesterone receptor (PR) in reporter gene bioassays." *Toxicological Sciences* **2005**, *83*(2):264-272; doi:10.1093/toxsci/kfi035.

Schreurs RHMM, Sonneveld E, van der Saag PT, van der Burg B, and Seinen W. "Examination of the in vitro (anti)estrogenic, (anti)androgenic and (anti)dioxin-like activities of tetralin, indane and isochroman derivatives using receptor-specific bioassays." *Toxicology Letters* **2005**, *156*(2):261-275; doi:10.1016/j.toxlet.2004.11.014.

Schriks M, Heringa MB, van der Kooi MME, de Voogt P, and van Wezel AP. "Toxicological relevance of emerging contaminants for drinking water quality." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.08.023.

Schroder HF. "Substance-specific detection and pursuit of non-eliminable compounds during biological treatment of waste water from the pharmaceutical industry." *Waste Management* **1999**, *19*(2):111-123; doi:10.1016/S0956-053X(99)00002-1.

Schröder P, Navarro-Aviñó J, Azaizeh H, Goldhirsh A, DiGregorio S, Komives T*, et al.* "Using phytoremediation technologies to upgrade waste water treatment in Europe." *Environmental Science and Pollution Research* **2007**, *14*(7):490-497; doi:10.1065/espr2006.12.373.

Schrotter J-C, Breda C, Vince F, de Roubin M-R, Roche P, and Bréant P. "Development of advanced treatment trains and decision support tools to meet future drinking water challenges." in *TECHNEAU: Safe Drinking Water from Source to Tap - State of the Art & Perspectives*, van den Hoven T and Kazner C, Eds., IWA Publishing; London, UK, 2009, pp 51-68; http://books.google.com/books?hl=en&lr=&id=JxxImvr9GtYC&oi=fnd&pg=PT61&dq=daughton+sewage&ots=RoMS-0PUmM&sig=lc-9x48gjY4FX6eWsPrNgcX7a0Q#v=onepage&q=&f=false.

Schuetze A, Heberer T, and Juergensen S. "Occurrence of residues of the veterinary drug malachite green in eels caught downstream from municipal sewage treatment plants." *Chemosphere* **2008**, *72*(11):1664-1670; doi:10.1016/j.chemosphere.2008.05.036.

Schuetze A, Heberer T, and Juergensen S. "Occurrence of residues of the veterinary drug crystal (gentian) violet in wild eels caught downstream from municipal sewage treatment plants." *Environmental Chemistry* **2008**, *5*(3):194-199; doi:10.1071/EN08008.

Schulman LJ, Sargent EV, Naumann BD, Faria EC, Dolan DG, and Wargo JP. "A Human Health Risk Assessment of Pharmaceuticals in the Aquatic Environment." *Human and Ecological Risk Assessment* **2002**, *8*(4):657-680.

Schulte D. "Disposal of expired drugs." *Journal of Michigan Dental Association* **2008**, *90*(8):16.

Schulte-Oehlmann U, Albanis T, Allera A, Bachmann J, Berntsson P, Beresford N*, et al.* "Comprendo: Focus and approach." *Environmental Health Perspectives* **2006**, *114*(S-1):98-100; doi:10.1289/ehp.8060.

Schulte-Oehlmann U, Oehlmann J, and Püttmann W. "Humanpharmakawirkstoffe in der Umwelt: Einträge, Vorkommen und der Versuch einer Bestandsaufnahme [Pharmaceutical agents in the environment, their entries, occurrence, and an inventory of them]." *Umweltwissenschaften und Schadstoff-Forschung* **2007**, *19*(3):168-179; doi:10.1065/uwsf2007.07.202.

Schulte-Oehlmann U, Oetken M, Bachmann J, and Oehlmann J. "Effects of ethinyloestradiol and methyltestosterone in prosobranch snails." in *Pharmaceuticals in the environment - Sources, fate, effects, and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 19, pp 233-247.

Schultz IR, Orner G, Merdink JL, and Skillman A. "Dose-response relationships and pharmacokinetics of vitellogenin in rainbow trout after intravascular administration of 17α-ethynylestradiol." *Aquatic Toxicology* **2001**, *51*(3):305-318; doi:10.1016/S0166-445X(00)00118-1.

Schultz IR, Skillman A, Nicolas JM, Cyr DG, and Nagler JJ. "Short-term exposure to 17α-ethynylestradiol decreases the fertility of sexually maturing male rainbow trout (Oncorhynchus mykiss)." *Environmental Toxicology and Chemistry* **2003**, *22*(6):1272-1280; doi:10.1897/1551-5028(2003)022<1272:STETED>2.0.CO;2.

Schultz M, Furlong E, Kolpin D, Werner S, Schoenfuss H, and Barber L. "Occurence of Antidepressant Pharmaceuticals in Two U.S. Streams and in Fish Brain Tissue Exposed to Wastewater Effluent (paper #595)." in 5th Society of Environmental Toxicology and Chemistry World Congress Meeting, Sydney, Australia, 2008.

Schultz MM and Furlong ET. "Trace analysis of antidepressant pharmaceuticals and their select degradates in aquatic matrixes by LC/ESI/MS/MS." *Analytical Chemistry* **2008**, *80*(5):1756-1762; doi:10.1021/ac702154e.

Schultz WB and Barclay L. "A Hard Pill to Swallow: Barriers to Effective FDA Regulation of Nanotechnology-Based Dietary Supplements." 17 January, 2009, 30 pp; http://www.nanotechproject.org/publications/archive/pen17/.

Schulz M, Löffler D, Wagner M, and Ternes TA. "Transformation of the X-ray Contrast Medium Iopromide In Soil and Biological Wastewater Treatment." *Environmental Science & Technology* **2008**, *42*(19):7207-7217; doi:10.1021/es800789r.

Schulz RW, Bogerd J, Male R, Ball J, Fenske M, Olsen LC*, et al.* "Estrogen-Induced Alterations in amh and dmrt1 Expression Signal for Disruption in Male Sexual Development in the Zebrafish." *Environmental Science & Technology* **2007**, *41*(17):6305-6310.

Schulze C and Matthies M. "Georeferenced aquatic fate simulation of cleaning agent and detergent ingredients in the river Rur catchment (Germany)." *Science of the Total Environment* **2001**, *280*(1-3):55-77; doi:10.1016/S0048-9697(01)00814-2.

Schumacher A, Trittler R, Bohnert JA, Kümmerer K, Pagès J-M, and Kern WV. "Intracellular accumulation of linezolid in Escherichia coli, Citrobacter freundii and Enterobacter aerogenes: role of enhanced efflux pump activity and inactivation." *Journal of Antimicrobial Chemotherapy* **2007**, *59*(6):1261-1264.

Schuring J. 2001, "H.B. 0221 To enact sections 3701.79, 3701.791, 3701.792, and 3701.793 of the Revised Code to establish under the direction of the Director of Health a drug repository program to accept and dispense donated prescription drugs." 5 pp.

Schuring J. 2001, "H.B. 0221 To enact sections 3715.87, 3715.871, 3715.872, and 3715.873 of the Revised Code to establish under the direction of the State Board of Pharmacy a drug repository program to accept and dispense donated prescription drugs." http://www.legislature.state.oh.us/bills.cfm?ID=124_HB_221.

Schüssler W and Nitschke L. "Determination of trace amounts of Galaxolide (R) (HHCB) by HPLC." *Fresenius Journal of Analytical Chemistry* **1998**, *361*(2):220-221; doi:10.1007/s002160050867.

Schuster A, Hädrich C, and Kümmerer K. "Flows of Active Pharmaceutical Ingredients Originating from Health Care Practices on a Local, Regional, and Nationwide Level in Germany—Is Hospital Effluent Treatment an Effective Approach for Risk Reduction?" *Water, Air, & Soil Pollution* **2008**, *8*(5):457-471; doi:10.1007/s11267-008-9183-9.

Schwab BW, Hayes EP, Fiori JM, Mastrocco FJ, Roden NM, Cragin D*, et al.* "Human pharmaceuticals in US surface waters: A human health risk assessment." *Regulatory Toxicology and Pharmacology* **2005**, *42*(3):296-312; doi:10.1016/j.yrtph.2005.05.005.

Schwaiger J, Ferling H, Mallow U, Wintermayr H, and Negele RD. "Toxic effects of the non-steroidal anti-inflammatory drug diclofenac: Part I: histopathological alterations and bioaccumulation in rainbow trout." *Aquatic Toxicology* **2004**, *68*(2):141-150; doi:10.1016/j.aquatox.2004.03.014.

Schwartz DL. "Environmental pollution in Latin America: The case of Puerto Rico - Pharmaceuticals and the water crisis." *Latino Studies* **1996**, *7*(1):95-96.

Schwartz S, Berding V, and Matthies M. "Umweltexpositionsabschätzung des polycyclischen Moschus-Duftstoffes HHCP – Szenarienanalyse mit EUSES." *Umweltmed Forsc Prax* **1999**, *4*:7-11.

Schwartz S, Berding V, and Matthies M. "Aquatic fate assessment of the polycyclic musk fragrance HHCB: Scenario and variability analysis in accordance with the EU risk assessment guidelines." *Chemosphere* **2000**, *41*(5):671-679; doi:10.1016/S0045-6535(99)00510-X.

Schwartz S, Berding V, and Matthies M. "Musk fragrances and environmental fate models - HHCB as an example for model refinements." in *Synthetic Musk Fragrances in the Environment*, Rimkus GG, Ed., Springer-Verlag; Heidelberg, 2004, pp 245-257.

Schwartz T, Kohnen W, Jansen B, and Obst U. "Detection of antibiotic-resistant bacteria and their resistance genes in wastewater, surface water, and drinking water biofilms." *FEMS Microbiology Ecology* **2003**, *43*(3):325-335; doi:10.1016/S0168-6496(02)00444-0.

Schwartz T, Volkmann H, Kirchen S, Kohnen W, Schon-Holz K, Jansen B*, et al.* "Real-time PCR detection of Pseudomonas aeruginosa in clinical and municipal wastewater and genotyping of the ciprofloxacin-resistant isolates." *FEMS Microbiology Ecology* **2006**, *57*(1):158-167.

Schwarzbauer J, Heim S, Brinker S, and Littke R. "Occurrence and alteration of organic contaminants in seepage and leakage water from a waste deposit landfill." *Water Research* **2002**, *36*(9):2275-2287; doi:10.1016/S0043-1354(01)00452-3.

Schwarzenbach RP, Escher BI, Fenner K, Hofstetter TB, Johnson CA, von Gunten U*, et al.* "The challenge of micropollutants in aquatic systems." *Science* **2006**, *313*(5790):1072-1077; doi:10.1126/science.1127291.

Schweinhardt P, Seminowicz DA, Jaeger E, Duncan GH, and Bushnell MC. "The Anatomy of the Mesolimbic Reward System: A Link between Personality and the Placebo Analgesic Response." *Journal of Neuroscience* **2009**, *29*(15):4882-4887; doi:10.1523/jneurosci.5634-08.2009.

Schweizer HP. "Triclosan: a widely used biocide and its link to antibiotics." *FEMS Microbiology Letters* **2001**, *202*(1):1-7; doi:10.1111/j.1574-6968.2001.tb10772.x.

Schwilke EW, Barnes AJ, Kacinko SL, Cone EJ, Moolchan ET, and Huestis MA. "Opioid Disposition in Human Sweat after Controlled Oral Codeine Administration." *Clinical Chemistry* **2006**, *52*(8):1539-1545; doi:10.1373/clinchem.2006.067983.

Science Advisory Panel, Alaska Department of Environmental Conservation, and Commercial Passenger Vessel Environmental Compliance Program. "The Impact of Cruise Ship Wastewater Discharge on Alaska Waters." Alaska Department of Environmental Conservation, 25 November, 2002, 272 pp; http://www.dec.state.ak.us/water/cruise_ships/pdfs/impactofcruiseship.pdf.

SCORxE "South Carolina Medicaid Academic Detailing Program." Web Page maintained by South Caroling College of Pharmacy 2008, http://www.sccp.sc.edu/SCORxE/index.aspx.

Scott A. "Dangerous levels of drug particles may be affecting pharmacy workers." *Drug Topics* **2008**, *152*(13):14.

Scott A. "GAO: No evidence-based need for third class of drugs." *Drug Topics* **2009**.

Scott AP and Ellis T. "Measurement of fish steroids in water- : a review." *General and Comparative Endocrinology* **2007**, *153*(1-3):392-400.

Scott AP, Katsiadaki I, Kirby MF, and Thain J. "Relationship between sex steroid and vitellogenin concentrations in flounder (Platichthys flesus) sampled from an estuary contaminated with estrogenic endocrine-disrupting compounds." *Environmental Health Perspectives* **2006**, *114*(S-1):27-31; doi:10.1289/ehp.8049.

Scott AP, Pinillos ML, and Huertas M. "The rate of uptake of sex steroids from water by Tinca tinca is influenced by their affinity for sex steroid binding protein in plasma." *Journal of Fish Biology* **2005**, *67*(1):182-200; doi:10.1111/j.0022-1112.2005.00727.x.

Scott AP, Sanders M, Stentiford GD, Reese RA, and Katsiadaki I. "Evidence for estrogenic endocrine disruption in an offshore flatfish, the dab (Limanda limanda L.)." *Marine Environmental Research* **2007**, *64*(2):128-148; doi:10.1016/j.marenvres.2006.12.013.

Scott GR and Sloman KA. "The effects of environmental pollutants on complex fish behaviour: integrating behavioural and physiological indicators of toxicity." *Aquatic Toxicology* **2004**, *68*(4):369-392; doi:10.1016/j.aquatox.2004.03.016.

Scott J, Beydoun D, Amal R, Low G, and Cattle J. "Landfill management, leachate generation, and leach testing of solid wastes in Australia and overseas." *Critical Reviews in Environmental Science and Technology* **2005**, *35*(3):239-332.

Scott MS. "Clandestine Drug labs: Problem-Oriented Guides for Police Series No. 16." U.S. Department of Justice, Office of Community Oriented Policing Services, 2002. 68 pp; http://www.cops.usdoj.gov/pdf/e02021446.pdf.

Scott TL, Janusz A, Perkins MV, Megharaj M, Naidu R, and Kirkbride KP. "Effect of Amphetamine Precursors and By-Products on Soil Enzymes of Two Urban Soils." *Bulletin of Environmental Contamination and Toxicology* **2003**, *70*(4):0824-0831; doi:10.1007/s00128-003-0056-7.

Scottish Environment Protection Agency. "Emamectin Benzoate An Environmental Risk Assessment." Scottish Environment Protection Agency, June, 1999, 22 pp; http://www.govdocs.aquake.org/cgi/content/abstract/2003/1025/10250120.

Scribner EA, Battaglin WA, Dietze JE, and Thurman EM. "Reconnaissance data for glyphosate, other selected herbicides, their degradation products, and antibiotics in 51 streams in nine Midwestern States." US Geological Survey, 2002. 101 pp.

Sczesny S, Hamscher G, Hoper H, and Nau H. "Veterinary drugs in the environment: Detection of tetracyclines by HPLC coupled with a microbiological assay and tandem mass spectrometry." *Naunyn-Schmiedebergs Arch Pharmacol* **2001**, *363*(4, S April):R170-R170.

Sczesny S, Nau H, and Hamscher G. "Residue analysis of Tetracyclines and their metabolites in eggs and in the environment by HPLC coupled with a microbiological assay and tandem mass spectrometry." *Journal of Agricultural and Food Chemistry* **2003**, *51*(3):697-703.

SDI/Verispan. "2008 Top 200 generic drugs by total prescriptions." *Drug Topics* **2009**:4-6.

Sebastine IM and Wakeman RJ. "Consumption and environmental hazards of pharmaceutical substances in the UK." *Process Safety and Environmental Protection* **2003**, *81*(4):229-235; doi:10.1205/095758203322299743.

Sebire M, Allen Y, Bersuder P, and Katsiadaki I. "The model anti-androgen flutamide suppresses the expression of typical male stickleback reproductive behaviour." *Aquatic Toxicology* **2008**, *90*(1):37-47; doi:10.1016/j.aquatox.2008.07.016.

Sebok Á, Vasanits-Zsigrai A, Helenkár A, Záray G, and Molnár-Perl I. "Multiresidue analysis of pollutants as their trimethylsilyl derivatives, by gas chromatography-mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(12):2288-2301; doi:10.1016/j.chroma.2009.01.056.

Sebok A, Vasanits-Zsigrai A, Palko G, Zaray G, and Molnar-Perl I. "Identification and quantification of ibuprofen, naproxen, ketoprofen and diclofenac present in waste-waters, as their trimethylsilyl derivatives, by gas chromatography mass spectrometry." *Talanta* **2008**, *76*(3):642-650; doi:10.1016/j.talanta.2008.04.008.

Secchi S and Babcock BA. "Pearls before swine? Potential trade-offs between the human and animal use of antibiotics." *American Journal of Agricultural Economics* **2002**, *84*(5):1279-1286.

Seckin E, Fromme H, and Völkel W. "Determination of total and free mono-n-butyl phthalate in human urine samples after medication of a di-n-butyl phthalate containing capsule." *Toxicology Letters* **2009**, *188*(1):33-37; doi:10.1016/j.toxlet.2009.03.002.

Sedlak DL "Selected list of publications." http://www.ce.berkeley.edu/~sedlak/.

Sedlak DL, Gray JL, and Pinkston KE. "Contaminants in recycled water." *Environmental Science and Technology* **2000**, *34*:509A-515A.

Sedlak DL, Gray JL, and Pinkston KE. "Understanding micro contaminants in recycled water." *Environmental Science & Technology* **2000**, *34*(23):A509-A515.

Sedlak DL and Huang C-H. "Strategies for selecting pharmaceuticals to assess attenuation during indirect potable water reuse." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 8, pp 107-118; http://www.cplbookshop.com/contents/C772.htm.

Sedlak DL, Pinkston K, Huang C-H, AWWA Research Foundation, and WateResuse Foundation. "Occurrence Survey of Pharmaceutically Active Compounds." AWWA Research Foundation, American Water Works Association, 2005, 82 pp; http://books.google.com/books?id=scON36tXJJEC&dq=sewage+Betamethasone+&lr=&source=gbs_summary_s&cad=0.

Sedlak DL, Pinkston KE, Gray JL, and Kolodziej EP. "Approaches for quantifying the attenuation of wastewater-derived contaminants in the aquatic environment." *Chimia* **2003**, *57*(9):567-569.

Sedlak M, Oros D, Davis J, Yee D, and Connor M. "DRAFT Strategy for Addressing Emerging Contaminants in the RMP." 1 June, 2006, 33 pp; http://www.wildlifetracker.org/rmp/emerging_contam_mtgs/Strategy_for_EC052606.pdf.

Seebeck T, Gong KW, Kunz S, Schaub R, Shalaby T, and Zoraghi R. "cAMP signalling in Trypanosoma brucei." *International Journal for Parasitology* **2001**, *31*(5):490-497; doi:10.1016/S0020-7519(01)00164-3.

Seed SM, Jarvis CI, Sullivan KM, Silva MA, and Tataronis GR. "Assessing the effect of a brief educational intervention on pharmacists' and pharmacy students' attitudes and knowledge regarding medicine disposal." presented at The 134th Annual Meeting & Exposition of APHA Environment Section Poster Session IV, 4-8 November, 2006; http://apha.confex.com/apha/134am/techprogram/paper_135061.htm.

Seehusen DA and Edwards J. "Patient Practices and Beliefs Concerning Disposal of Medications." *The Journal of the American Board of Family Medicine* **2006**, *19*(6):542-547.

Seelig B. "Water Resource Impacts from Medicines and other Biological Active Substances." North Dakota State University, Department of Soil Science, Water Quality Program, WQ-1278, April, 2005, 28 pp; http://wsprod.colostate.edu/cwis435/northern_plains_mountains/New/Finished%20bulletin%201278.pdf

Segner H. "Developmental, reproductive, and demographic alterations in aquatic wildlife: Establishing causality between exposure to endocrine-active compounds (EACs) and effects [Veränderungen in der aquatischen Tierwelt im Hinblick auf Entwicklung, Reproduktion und Demographie: Herstellung eines kausalen Zusammenhangs zwischen Exposition an endokrin aktive Verbindungen (EAC) und Wirkungen]." *Acta Hydrochimica et Hydrobiologica* **2005**, *33*(1):17-26; doi:10.1002/aheh.200400550.

Segner H. "Comment on 'Lessons from endocrine disruption and their application to other issues concerning trace organics in the aquatic environment'." *Environmental Science & Technology* **2006**, *40*(3):1084-1085; doi:10.1021/es051791d.

Segner H. "Ecotoxicology – How to Assess the Impact of Toxicants in a Multi-Factorial Environment?" in *Multiple Stressors: A Challenge for the Future*, Mothersill C, Mosse I and Seymour C, Eds., Springer Netherlands; Minsk, Belarus, 2007, Chapter 4, pp 39-56; doi:10.1007/978-1-4020-6335-0_4; http://www.springerlink.com/content/40x3924725g31j61/.

Segner H. "Zebrafish (Danio rerio) as a model organism for investigating endocrine disruption." *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* **2009**, *149*(2):187-195; doi:10.1016/j.cbpc.2008.10.099.

Segner H, Caroll K, Fenske M, Janssen CR, Maack G, Pascoe D*, et al.* "Identification of endocrine-disrupting effects in aquatic vertebrates and invertebrates: report from the European IDEA project." *Ecotoxicology and Environmental Safety* **2003**, *54*(3):302-314; doi:10.1016/S0147-6513(02)00039-8.

Segner H, Chesné C, Cravedi J-P, Fauconneau B, Houlihan D, LeGac F*, et al.* "Cellular approaches for diagnostic effects assessment in ecotoxicology: introductory remarks to an EU-funded project." *Aquatic Toxicology* **2001**, *53*(3-4):153-158; doi:10.1016/S0166-445X(01)00162-X.

Segner H, Navas JM, Schäfers C, and Wenzel A. "Potencies of estrogenic compounds in in vitro screening assays and in life cycle tests with zebrafish in vivo." *Ecotoxicology and Environmental Safety* **2003**, *54*(3):315-322; doi:10.1016/S0147-6513(02)00040-4.

Segura M, Ortuño J, Farré M, Pacifici R, Pichini S, Joglar J*, et al.* "Quantitative determination of paroxetine and its 4-hydroxy-3-methoxy metabolite in plasma by high-performance liquid chromatography/electrospray ion trap mass spectrometry: application to pharmacokinetic studies." *Rapid Communications in Mass Spectrometry* **2003**, *17*(3):1455-1461; doi:10.1002/rcm.1067.

Segura M, Roura L, de la Torre R, and Joglar J. "Synthesis of the major metabolites of Paroxetine." *Bioorganic Chemistry* **2003**, *31*(3):248-258; doi:10.1016/S0045-2068(03)00040-3.

Segura PA, François M, Gagnon C, and Sauvé S. "Review of the Occurrence of Anti-infectives in Contaminated Wastewaters, Natural and Drinking Waters." *Environmental Health Perspectives* **2009**, *117*(5):675-684; doi:10.1289/ehp.11776.

Segura PA, Gagnon C, and Sauve S. "A fully automated on-line preconcentration and liquid chromatography-tandem mass spectrometry method for the analysis of anti-infectives in wastewaters." *Analytica Chimica Acta* **2007**, *604*(2):147-157; doi:10.1016/j.aca.2007.09.058.

Segura PA, Garcia-Ac A, Lajeunesse A, Ghosh D, Gagnon C, and Sauve S. "Determination of six anti-infectives in wastewater using tandem solid-phase extraction and liquid chromatography-tandem mass spectrometry." *Journal of Environmental Monitoring* **2007**, *9*(4):307-313; doi:10.1039/b618801j.

Seidlova-Wuttke D, Jarry H, Christoffel J, Rimoldi G, and Wuttke W. "Comparison of effects of estradiol (E2) with those of octylmethoxycinnamate (OMC) and 4-methylbenzylidene camphor (4MBC) -- 2 filters of UV light - on several uterine, vaginal and bone parameters." *Toxicology and Applied Pharmacology* **2006**, *210*(3):246-254; doi:10.1016/j.taap.2005.05.006.

Seifrtová M, Nováková L, Lino C, Pena A, and Solich P. "An overview of analytical methodologies for the determination of antibiotics in environmental waters." *Analytica Chimica Acta* **2009**, *649*(2):158-179; doi:10.1016/j.aca.2009.07.031.

Seifrtová M, Pena A, Lino C, and Solich P. "Determination of fluoroquinolone antibiotics in hospital and municipal wastewaters in Coimbra by liquid chromatography with a monolithic column and fluorescence detection." *Analytical and Bioanalytical Chemistry* **2008**, *391*(3):799-805; doi:10.1007/s00216-008-2020-1.

Seiler JP. "Pharmacodynamic activity of drugs and ecotoxicology--can the two be connected?" *Toxicology Letters* **2002**, *131*(1-2):105-115; doi:10.1016/S0378-4274(02)00045-0.

Seiler JP. "Pharmacodynamic Activity of Drugs and Ecotoxicology - Can the Two Be Connected?" in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Seiler RL, Zaugg SD, Thomas JM, and Howcroft DL. "Caffeine and pharmaceuticals as indicators of waste water contamination in wells." *Ground Water* **1999**, *37*(3):405-410.

Sein MM, Schmidt TC, Golloch A, and von Sonntag C. "Oxidation of some typical wastewater contaminants (tributyltin, clarithromycin, metoprolol and diclofenac) by ozone." *Water Science and Technology* **2009**, *59*(8):1479-1485; doi:10.2166/wst.2009.153.

Sein MM, Zedda M, Tuerk J, Schmidt TC, Golloch A, and Sonntag Cv. "Oxidation of Diclofenac with Ozone in Aqueous Solution." *Environmental Science & Technology* **2008**, *42*(17):6656-6662; doi:10.1021/es8008612.

Seino A, Furusho S, and Masunaga S. "Occurrence of Pharmaceuticals Used in Human and Veterinary Medicine in Aquatic Environments in Japan." *Journal of Japan Society on Water Environment* **2004**, *27*(11):685-691.

Seitz W, Jiang JQ, Weber WH, Lloyd BJ, Maier M, and Maier D. "Removal of iodinated X-ray contrast media during drinking water treatment." *Environmental Chemistry* **2006**, *3*(1):35-39; doi:10.1071/EN05036.

Seitz W, Jiang J-Q, Schulz W, Weber WH, Maier D, and Maier M. "Formation of oxidation by-products of the iodinated X-ray contrast medium iomeprol during ozonation." *Chemosphere* **2008**, *70*(7):1238-1246; doi:10.1016/j.chemosphere.2007.07.081.

Seitz W, Schulz W, and Weber WH. "Novel applications of highly sensitive liquid chromatography/mass spectrometry/mass spectrometry for the direct detection of ultra-trace levels of contaminants in water." *Rapid Communications in Mass Spectrometry* **2006**, *20*(15):2281-2285; doi:10.1002/rcm.2554.

Seitz W, Weber WH, Jiang J-Q, Lloyd BJ, Maier M, Maier D*, et al.* "Monitoring of iodinated X-ray contrast media in surface water." *Chemosphere* **2006**, *64*(8):1318-1324; doi:10.1016/j.chemosphere.2005.12.030.

Seiwert C. "The placebo effect: It's not all in your head." *BioMedNet HMS Beagle* **2001**, (103).

Sekar R and Wu HF. "Quantitative method for analysis of monensin in soil, water, and urine by direct combination of single-drop microextraction with atmospheric pressure matrix-assisted laser desorption/ionization mass spectrometry." *Analytical Chemistry* **2006**, *78*(18):6306-6313; doi:10.1021/ac060123n.

Seki M, Fujishima S, Nozaka T, Maeda M, and Kobayashi K. "Comparison of response to 17β-estradiol and 17β-trenbolone among three small fish species." *Environmental Toxicology and Chemistry* **2006**, *25*(10):2742-2752; doi:10.1897/05-647R.1.

Seki M, Yokota H, Maeda M, and Kobayashi K. "Fish full life-cycle testing for 17β-estradiol on medaka (Oryzias latipes)." *Environmental Toxicology and Chemistry* **2005**, *24*(5):1259-1266; doi:10.1897/04-379R.1.

Seki M, Yokota H, Matsubara H, Maeda M, Tadokoro H, and Kobayashi K. "Fish full life-cycle testing for androgen methyltestosterone on medaka (Oryzias latipes)." *Environmental Toxicology and Chemistry* **2004**, *23*(3):774-781; doi:10.1897/03-26.

Seki M, Yokota H, Matsubara H, Tsuruda Y, Maeda N, Tadokoro H*, et al.* "Effect of ethinylestradiol on the reproduction and induction of vitellogenin and testis-ova in medaka (Oryzias latipes)." *Environmental Toxicology and Chemistry* **2002**, *21*(8):1692-1698; doi:10.1897/1551-5028(2002)021<1692:EOEOTR>2.0.CO;2.

Sellin AMK, Snow DD, Gustafson ST, Erickson GE, and Kolok AS. "The endocrine activity of beef cattle wastes: Do growth-promoting steroids make a difference?" *Aquatic Toxicology* **2009**, *92*(4):221-227; doi:10.1016/j.aquatox.2009.02.004.

Sellin MK, Snow DD, Akerly DL, and Kolok AS. "Estrogenic Compounds Downstream From Three Small Cities in Eastern Nebraska: Occurrence and Biological Effect[1]." *Journal of the American Water Resources Association* **2009**, *45*(1):14-21; doi:10.1111/j.1752-1688.2008.00285.x.

Sellin MK, Snow DD, Gustafson ST, Erickson GE, and Kolok AS. "The endocrine activity of beef cattle wastes: Do growth-promoting steroids make a difference?" *Aquatic Toxicology* **2009**, *92*(4):221-227; doi:10.1016/j.aquatox.2009.02.004.

Sellin MK, Snow DD, Schwarz MS, Carter BJ, and Kolok AS. "Agrichemicals in Nebraska, USA Watersheds: Occurrence and Endocrine Effects." *Environmental Toxicology and Chemistry* **2009**, *28*(11):2443-2448; doi:10.1897/09-135.1.

Sellman S, "Drugs and Chemicals Straight From the Tap." *NEXUS*, 2005, April - May 1-5 pp; http://www.whatwomenmustknow.com/pdfs/DrugsonTap.pdf.

Selvik A, Hansen PK, Ervik A, and Samuelsen OB. "The stability and persistence of diflubenzuron in marine sediments studied under laboratory conditions and the dispersion to the sediment under a fish farm following medication." *Science of the Total Environment* **2002**, *285*:237-245.

Semard G, Bruchet A, Cardinael P, and Bouillon JP. "Use of comprehensive two-dimensional gas chromatography for the broad screening of hazardous contaminants in urban wastewaters." *Water Science and Technology* **2008**, *57*(12):1983-1989; doi:10.2166/wst.2008.615.

Semmingsen I. 2007, "Kloakk avslører kokainbruk [Sewage reveals cocaine use: By analyzing sewage, scientists have estimated that the daily runs with 8000 doses of cocaine in Oslo]." NRK, http://www.vg.no/nyheter/innenriks/artikkel.php?artid=168131.

Semsar K, Perreault HAN, and Godwin J. "Fluoxetine-treated male wrasses exhibit low AVT expression." *Brain Research* **2004**, *1029*(2):141-147; doi:10.1016/j.brainres.2004.09.030.

Sen A and Semiz A. "Effects of metals and detergents on biotransformation and detoxification enzymes of leaping mullet (Liza saliens)." *Ecotoxicology and Environmental Safety* **2007**, *68*(3):405-411.

Senate and House of Representatives of the United States of America in Congress. 2009, "Water Quality Investment Act of 2009." 66 pp; http://www.govtrack.us/congress/billtext.xpd?bill=h111-1262.

Senate Environment and Public Works Committee on Pharmaceuticals in Water (15 April 2008), the Senate Subcommittee on Transportation Safety, Infrastructure Security, and Water Quality held the hearing, "Pharmaceuticals in the Nation's Water: Assessing Potential Risks and Actions to Address the Issue." 2008; The hearing was broadcast live; the video (ca. 1':50") of the verbal testimony and questioning can be accessed here: http://epw.senate.gov/public/index.cfm?FuseAction=Hearings.Hearing&Hearing_ID=30641a14-802a-23ad-4b51-a10dd439793f.

Senator Cegavske, Senator Raggio, Senator Nolan, Senator Lee, Senator Copening, Senator Amodei*, et al.* 2009, "An Act relating to health - requiring the State Board of Pharmacy to establish the Cancer Drug Donation Program." http://www.leg.state.nv.us/75th2009/Bills/SB/SB159.pdf.

Senator Florez. 2009, "California Senate SB 416 (Florez) Antibiotics." 6 pp; http://www.aroundthecapitol.com/Bills/SB_416/.

Sengelov G, Agerso Y, Halling-Sorensen B, Baloda SB, Andersen JS, and Jensen LB. "Bacterial antibiotic resistance levels in Danish farmland as a result of treatment with pig manure slurry." *Environment International* **2003**, *28*(7):587-595; doi:10.1016/S0160-4120(02)00084-3.

Sengl M and Krezmer S. "Proficiency tests for pharmaceuticals in different waters." *Accreditation and Quality Assurance* **2003**, *8*(11):523-529; doi:10.1007/s00769-003-0688-7.

Senjen R and Illuminato I. "Nano & Biocidal Silver: Extreme germ killers present a growing threat to public health." Friends of the Earth Australia, Friends of the Earth United States, 2009, 48 pp; http://www.foe.org/sites/default/files/Nano-silverReport_US.pdf.

Senta I, Terzić S, and Ahel M. "Simultaneous Determination of Sulfonamides, Fluoroquinolones, Macrolides and Trimethoprim in Wastewater and River Water by LC-Tandem-MS." *Chromatographia* **2008**, *68*(9):747-758; doi:10.1365/s10337-008-0780-6.

Seppa N. "Nicotine spurs vessel growth, maybe cancer." *Science News* **2001**, *160*(1).

Sequeira dos Ramos Silva P. "Removal of 17β-estradiol from Water using Molecularly Imprinted Polyethersulfone Microspheres." Masters Dissertation, Universidada Técnica de Lisboa, Lisbon, Portugal, 2007. 86 pp; https://dspace.ist.utl.pt/bitstream/2295/140394/1/dissertacao.pdf.

Séralini G-E and Moslemi S. "Aromatase inhibitors: past, present and future." *Molecular and Cellular Endocrinology* **2001**, *178*(1-2):117-131; doi:10.1016/S0303-7207(01)00433-6.

Serge Chiron CMDV. "Photodegradation of Xenobiotic Compounds Relevant to Estuarine Waters." *Annali di Chimica* **2007**, *97*(3-4):135-139; doi:10.1002/adic.200790013.

Serrano JM and Silva M. "Rapid and sensitive determination of aminoglycoside antibiotics in water samples using a strong cation-exchange chromatography non-derivatisation method with chemiluminescence detection." *Journal of Chromatography A* **2006**, *1117*(2):176-183; doi:10.1016/j.chroma.2006.03.086.

Servos MR, Bennie DT, Burnison BK, Jurkovic A, McInnis R, Neheli T*, et al.* "Distribution of estrogens, 17β-estradiol and estrone, in Canadian municipal wastewater treatment plants." *Science of the Total Environment* **2005**, *336*(1-3):155-170; doi:10.1016/j.scitotenv.2004.05.025.

Servos MR, Maguire RJ, Bennie DT, Lee H-B, Cureton PM, Davidson N*, et al.* "An Ecological Risk Assessment of Nonylphenol and Its Ethoxylates in the Aquatic Environment." *Human and Ecological Risk Assessment* **2003**, *9*(2):569-587; doi:10.1080/1080703031877069.

Servos MR, Smith M, McInnis R, Burnison K, Lee B-H, Seto P*, et al.* "The Presence of Selected Pharmaceuticals and Personal Care

Products in Drinking Water in Ontario, Canada." *Water Quality Research Journal of Canada* **2007**, *42*(2):130-137.

Sesay AM. "Towards a remote portable bio-affinity surface plasmon resonance analyser for environmental steroidal-pollutants." Doctoral Dissertation, Cranfield University, Institute of Bioscience and Technology, 2003. 234 pp; https://dspace.lib.cranfield.ac.uk/handle/1826/854.

Sessink PJM, Friemèl NSS, Anzion RBM, and Bos RP. "Biological and environmental monitoring of occupational exposure of pharmaceutical plant workers to methotrexate." *International Archives of Occupational and Environmental Health* **1994**, *65*(6):401-403; doi:10.1007/BF00383251.

Setziol I. "NPR's "Living on Earth" Drugs in Drinking Water." National Public Radio 15 March 2002.

Seveno N, Kallifidas D, Smalla K, Van Elsas JD, Collard JM, Karagouni A*, et al.* "Occurrence and reservoirs of antibiotic resistance genes in the environment." *Reviews in Medical Microbiology* **2002**, *13*(1):15-27.

Sexton K and Hattis D. "Assessing cumulative health risks from exposure to environmental mixtures - three fundamental questions." *Environmental Health Perspectives* **2007**, *115*(5):825-832; doi:10.1289/ehp.9333.

Seymour EA and Bergheim A. "Towards a reduction of pollution from intensive aquaculture with reference to the farming of salmonids in Norway." *Aquacultural Engineering* **1991**, *10*(2):73-88; doi:10.1016/0144-8609(91)90001-Z.

Shabir GA. "Validation of high-performance liquid chromatography methods for pharmaceutical analysis: Understanding the differences and similarities between validation requirements of the US Food and Drug Administration, the US Pharmacopeia and the International Conference on Harmonization." *Journal of Chromatography A* **2003**, *987*(1-2):57-66; doi:10.1016/S0021-9673(02)01536-4.

Shabir GA. "Review of Pharmaceutical Product Stability, Packaging and the ICH Guidelines." *American Pharmaceutical Review* **2008**, (January/February).

Shader RI. "Dose dumping and the dumping of doses." *Journal of Clinical Psychopharmacology* **2007**, *27*(4):327-328.

Shader RI. "Water, Water Everywhere: But Is It Safe to Drink? Return to a Muddy Topic." *Journal of Clinical Psychopharmacology* **2008**, *28*(3):261-263; doi:10.1097/JCP.0b013e3181771645.

Shafir W. "Pharmaceutical waste: why is it an issue now." Power Point Presentation, USEPA Region 9, http://www.westp2net.org/hospital/pdf/az/07%20Pharms%20Waste%20(AZ).pdf.

Shah AD. "Antibiotics in Water Treatment: The Role of Water Quality Conditions on their Fate and Removal during Chlorination and Nanofiltration." Doctoral Dissertation, School of Civil and Environmental Engineering, Atlanta, GA, 2008. 189 pp; http://etd.gatech.edu/theses/available/etd-08222008-155301/.

Shah AD, Kim JH, and Huang CH. "Reaction kinetics and transformation of carbadox and structurally related compounds with aqueous chlorine." *Environmental Science & Technology* **2006**, *40*(23):7228-7235; doi:10.1021/es060404c.

Shah D, Bhattacharyya D, Ghorpade A, and Mangum W. "Pervaporation of pharmaceutical waste streams and synthetic mixtures using water selective membranes." *Environmental Progress* **1999**, *18*(1):21-29; doi:10.1002/ep.670180116.

Shah D, Kissick K, Ghorpade A, Hannah R, and Bhattacharyya D. "Pervaporation of alcohol-water and dimethylformamide-water mixtures using hydrophilic zeolite NaA membranes: mechanisms and experimental results." *Journal of Membrane Science* **2000**, *179*(1-2):185-205; doi:10.1016/S0376-7388(00)00515-9.

Shah VP, Epstein WL, and Riegelman S. "Role of Sweat in Accumulation of Orally Administered Griseofulvin in Skin." *Journal of Clinical Investigation* **1974**, *53*(6):1673-1678; doi:10.1172/JCI107718.

Shahi SK, Krauth-Siegel RL, and Clayton CE. "Overexpression of the putative thiol conjugate transporter TbMRPA causes melarsoprol resistance in Trypanosoma brucei." *Molecular Microbiology* **2002**, *43*(5):1129-1138; doi:10.1046/j.1365-2958.2002.02831.x.

Shahid M and Tripathi T. "Pharmacoenvironmentology: An overview of e-literature citing this emerging domain." in *An Introduction to Environmental Pharmacology*, 1st ed.; Rahman SZ, Shahid M and Gupta V, Eds., Ibn Sina Academy; Aligarh, India, 2008, 17, pp 245-249.

Shahid M, Tripathi T, Sobia F, Singh AK, Malik A, and Khan HM. "Potential Biological Effects of Drugs and Pharmaceutical on Environmenal[sic] Health System." in *An Introduction to Environmental Pharmacology*, 1st ed.; Rahman SZ, Shahid M and Gupta V, Eds., Ibn Sina Academy; Aligarh, India, 2008, 13, pp 203-218.

Shaikh B, Rummel N, Gieseker C, and Reimschuessel R. "Metabolism and depletion of albendazole in the muscle tissue of channel catfish following oral treatment." *Journal of Veterinary Pharmacology and Therapeutics* **2006**, *29*(6):525-530; doi:10.1111/j.1365-2885.2006.00799.x.

Shannon MA, Bohn PW, Elimelech M, Georgiadis JG, Marinas BJ, and Mayes AM. "Science and technology for water purification in the coming decades." *Nature* **2008**, *452*(20):301-310; doi:10.1038/nature06599.

Shao B, Chen D, Zhang J, Wu Y, and Sun C. "Determination of 76 Pharmaceutical Drugs by Liquid Chromatography-Tandem Mass Spectrometry in Slaughterhouse Wastewater." *Journal of Chromatography A* **2009**, *1216*(47):8312-8318; doi:10.1016/j.chroma.2009.08.038.

Shao B, Jia Z, Wu Y, Hu J, Tu Z, and Zhang J. "Multi-class confirmatory method for analyzing trace levels of tetracyline and quinolone antibiotics in pig tissues by ultra-performance liquid chromatography coupled with tandem mass spectrometry." *Rapid Communications in Mass Spectrometry* **2007**, *21*(21):3487-3496; doi:10.1002/rcm.3236.

Shao B, Sun X, Zhang J, Hu J, Dong H, and Yang Y. "Determination of ofloxacin enantiomers in sewage using two-step solid-phase extraction and liquid chromatography with fluorescence detection." *Journal of Chromatography A* **2008**, *1182*(1):77-84; doi:10.1016/j.chroma.2007.12.073.

Shao Y. "Removal of pharmaceutically active compounds from water systems using freeze concentration." Masters Dissertation, Lakehead University, Thunder Bay, Ontario, Canada, 2007. 210 pp.

Shao Y, He K, Zheng B, and Zheng Q. "Reversed-phase high-performance liquid chromatographic method for quantitative analysis of the six major kavalactones in Piper methysticum." *Journal of Chromatography A* **1998**, *825*(1):1-8; doi:10.1016/S0021-9673(98)00699-2.

Shappell NW. "Estrogenic activity in the environment: Municipal wastewater effluent, river, ponds, and wetlands." *Journal of Environmental Quality* **2006**, *35*(1):122-132; doi:10.2134/jeq2004.0464.

Shappell NW, Billey LO, Forbes D, Matheny TA, Poach ME, Reddy GB*, et al.* "Estrogenic activity and steroid hormones in swine wastewater through a lagoon constructed-wetland system." *Environmental Science & Technology* **2007**, *41*(2):444-450; doi:10.1021/es061268e.

Shappell NW, Vrabel MA, Madsen PJ, Harrington G, Billey LO, Hakk H*, et al.* "Destruction of Estrogens Using Fe-TAML/Peroxide Catalysis." *Environmental Science & Technology* **2008**, *42*(4):1296-1300.

Shareef A, Angove MJ, and Wells JD. "Optimization of silylation using N-methyl-N-(trimethylsilyl)-trifluoroacetamide, N,O-bis-(trimethyl.silyl)-trifluoroacetamide and N-(tert-butyldimethylsilyl)-N-methyltrifluoroacetamide for the determination of the estrogens estrone and 17α-ethinylestradiol by gas chromatography-mass spectrometry." *Journal of Chromatography A* **2006**, *1108*(1):121-128.

Shareef A, Angove MJ, Wells JD, and Johnson BB. "Reply to 'Suitability of N,O-bis(trimethylsilyl)trifluoroacetamide as derivatization reagent for the determination of the estrogens estrone and 17α-ethinylestradiol by gas chromatography-mass spectrometry'." *Journal of Chromatography A* **2005**, *1095*(1-2):203-204; doi:10.1016/j.chroma.2005.09.062.

Shareef A, Angove MJ, Wells JD, and Johnson BB. "Aqueous solubilities of estrone, 17β-estradiol, 17α-ethynylestradiol, and bisphenol A." *Journal of Chemical & Engineering Data* **2006**, *51*(3):879-881.

Shareef A, Angove MJ, Wells JD, and Johnson BB. "Sorption of bisphenol A, 17*α*-ethynylestradiol and estrone to mineral surfaces." *Journal of Colloid and Interface Science* **2006**, *297*(1):62-69; doi:10.1016/j.jcis.2005.10.039.

Shareef A, Egerer S, and Kookana R. "Effect of triclosan and triclocarban biocides on biodegradation of estrogens in soils." *Chemosphere* **2009**, *77*(10):1381-1386; doi:10.1016/j.chemosphere.2009.09.018.

Shareef A, Parnis CJ, Angove MJ, Wells JD, and Johnson BB. "Suitability of N,O-bis(trimethylsilyl)trifluoroacetamide and N-(tert-butyldimethylsilyl)-N-methyltrifluoroacetamide as derivatization reagents for the determination of the estrogens estrone and 17α-ethinylestradiol by gas chromatography-mass spectrometry." *Journal of Chromatography A* **2004**, *1026*(1-2):295-300.

Shariati FP, Mehrnia MR, Salmasi BM, Heran M, Wisniewski C, and Sarrafzadeh MH. "Membrane bioreactor for treatment of

pharmaceutical wastewater containing acetaminophen." *Desalination* **2010**, *250*(2):798-800; doi:10.1016/j.desal.2008.11.044.

Shariati S, Yamini Y, and Esrafili A. "Carrier mediated hollow fiber liquid phase microextraction combined with HPLC-UV for preconcentration and determination of some tetracycline antibiotics." *Journal of Chromatography B* **2009**, *877*(4):393-400; doi:10.1016/j.jchromb.2008.12.042.

Sharma R, Larney FJ, Chen J, Yanke LJ, Morrison M, Topp E*, et al.* "Selected Antimicrobial Resistance during Composting of Manure from Cattle Administered Sub-Therapeutic Antimicrobials." *Journal of Environmental Quality* **2009**, *38*(2):567-575; doi:10.2134/jeq2007.0638.

Sharma V, Shukla RK, Saxena N, Parmar D, Das M, and Dhawan A. "DNA damaging potential of zinc oxide nanoparticles in human epidermal cells." *Toxicology Letters* **2009**, *185*(3):211-218; doi:10.1016/j.toxlet.2009.01.008.

Sharma VK. "Oxidative transformations of environmental pharmaceuticals by Cl_2, ClO_2, O_3, and Fe(VI): Kinetics assessment." *Chemosphere* **2008**, *73*(9):1379-1386; doi:10.1016/j.chemosphere.2008.08.033.

Sharma VK and Mishra SK. "Ferrate(VI) oxidation of ibuprofen: A kinetic study." *Environmental Chemistry Letters* **2006**, *3*(4):182-185; doi:10.1007/s10311-005-0002-5.

Sharma VK, Mishra SK, and Nesnas N. "Oxidation of Sulfonamide Antimicrobials by Ferrate(VI) [$Fe^{VI}O_4^{2-}$]." *Environmental Science & Technology* **2006**, *40*(23):7222-7227.

Sharma VK, Mishra SK, and Ray AK. "Kinetic assessment of the potassium ferrate(VI) oxidation of antibacterial drug sulfamethoxazole." *Chemosphere* **2006**, *62*(1):128-134; doi:10.1016/j.chemosphere.2005.03.095.

Sharpe M. "Raising a glass to clean water." *Journal of Environmental Monitoring* **2002**, *4*:2N-2O; doi:10.1039/b200101m.

Sharpe M. "High on pollution: Drugs as environmental contaminants." *Journal of Environmental Monitoring* **2003**, *5*(3):42N-46N; doi:10.1039/b304973f.

Sharpe RL and MacLatchy DL. "Lipid dynamics in goldfish (Carassius auratus) during a period of gonadal recrudescence: Effects of β-sitosterol and 17β-estradiol exposure." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2007**, *145*(4):507-517; doi:10.1016/j.cbpc.2006.11.018.

Shchepinov MS. "Reactive Oxygen Species, Isotope Effect, Essential Nutrients, and Enhanced Longevity." *Rejuvenation Research* **2007**, *10*(1):47-60; doi:10.1089/rej.2006.0506.

Shea KM. "Antibiotic resistance: What is the impact of agricultural uses of antibiotics on children's health?" *Pediatrics* **2003**, *112*(1,S):253-258.

Sheahan M. "Guidelines for the Environmentally-Safe Disposal of Pharmaceutical Products." 20 October, 2008, 23 pp; http://www.layloff.net/articles/Pharmaceutical%20Product%20Disposal%20for%20Review.pdf.

Sheehan DM. "Activity of environmentally relevant low doses of endocrine disruptors and the bisphenol A controversy: Initial results confirmed (44515)." *Proceedings of the Society for Experimental Biology and Medicine* **2000**, *224*:57-60.

Sheehan DM, Willingham E, Gaylor D, Bergeron JM, and Crews D. "No threshold dose for estradiol-induced sex reversal of turtle embryos: How little is too much?" *Environmental Health Perspectives* **1999**, *107*(2):155-159.

Shek WM. "A study of synthetic polycyclic musks in the aquatic environment of Hong Kong." Masters Dissertation, City University of Hong Kong, Department of Biology and Chemistry, Hong Kong, China, 2007. 118 pp; http://hdl.handle.net/2031/4909.

Shek WM, Murphy MB, Lam JCW, and Lam PKS. "Synthetic polycyclic musks in Hong Kong sewage sludge." *Chemosphere* **2008**, *71*(7):1241-1250; doi:10.1016/j.chemosphere.2007.11.069.

Shek WM, Murphy MB, Lam JCW, and Lam PKS. "Polycyclic musks in green-lipped mussels (Perna viridis) from Hong Kong." *Marine Pollution Bulletin* **2008**, *57*(6-12):373-380; doi:10.1016/j.marpolbul.2008.02.037.

Sheldon LS and Hites RA. "Organic compounds in the Delaware River." *Environmental Science & Technology* **1978**, *12*(10):1188-1194; doi:10.1021/es60146a006.

Shelver WL, Kamp LM, Church JL, and Rubio FM. "Measurement of triclosan in water using a magnetic particle enzyme

immunoassay." *Journal of Agricultural and Food Chemistry* **2007**, *55*(10):3758-3763; doi:10.1021/jf0632841.

Shelver WL, Shappell NW, Franek M, and Rubio FR. "ELISA for Sulfonamides and Its Application for Screening in Water Contamination." *Journal of Agricultural and Food Chemistry* **2008**, *56*(15):6609-6615; doi:10.1021/jf800657u.

Shemer H, Kunukcu YK, and Linden KG. "Degradation of the pharmaceutical Metronidazole via UV, Fenton and photo-Fenton processes." *Chemosphere* **2006**, *63*(2):269-276; doi:10.1016/j.chemosphere.2005.07.029.

Shen C, Huang S, Wang Z, Qiao M, Tang X, Yu C*, et al.* "Identification of Ah Receptor Agonists in Soil of E-waste Recycling Sites from Taizhou Area in China." *Environmental Science & Technology* **2008**, *42*(1):49-55.

Shen HY, Jiang HL, Mao HL, Pan G, Zhou L, and Cao YF. "Simultaneous determination of seven phthalates and four parabens in cosmetic products using HPLC-DAD and GC-MS methods." *Journal of Separation Science* **2007**, *30*(1):48-54; doi:10.1002/jssc.200600215.

Shen H-Y and Jiang H-L. "Screening, determination and confirmation of chloramphenicol in seafood, meat and honey using ELISA, HPLC-UVD, GC-ECD, GC-MS-EI-SIM and GCMS-NCI-SIM methods." *Analytica Chimica Acta* **2005**, *535*(1-2):33-41; doi:10.1016/j.aca.2004.12.027.

Shen J, Zhang Q, Ding S, Zhang S, and Coats JR. "Bioconcentration and elimination of avermectin B_1 in sturgeon." *Environmental Toxicology and Chemistry* **2005**, *24*(2):396-399; doi:10.1897/03-480.1.

Shen K-F and Crain SM. "Ultra-low doses of naltrexone or etorphine increase morphine's antinociceptive potency and attenuate tolerance/dependence in mice." *Brain Research* **1997**, *757*(2):176-190; doi:10.1016/S0006-8993(97)00197-2.

Shen K-F and Crain SM. "Cholera toxin-B subunit blocks excitatory opioid receptor-mediated hyperalgesic effects in mice, thereby unmasking potent opioid analgesia and attenuating opioid tolerance/dependence." *Brain Research* **2001**, *919*(1):20-30; doi:10.1016/S0006-8993(01)02990-0.

Sheng DG, Xu C, Xu L, Qiu Y, and Zhou H. "Abiotic oxidation of 17β-estradiol by soil manganese oxides." *Environmental Pollution* **2009**, *157*(10):2710-2715; doi:10.1016/j.envpol.2009.04.030.

Shepard BD and Gilmore MS. "Antibiotic-resistant enterococci: the mechanisms and dynamics of drug introduction and resistance." *Microbes and Infection* **2002**, *4*(2):215-224; doi:10.1016/S1286-4579(01)01530-1.

Sherer JT. "Pharmaceuticals in the environment." *American Journal of Health-System Pharmacy* **2006**, *63*:174-178.

Sherratt TN, Macdougall AD, Wratten SD, and Forbes AB. "Models to assist the evaluation of the impact of avermectins on dung insect populations." *Ecological Modelling* **1998**, *110*(2):165-173; doi:10.1016/S0304-3800(98)00064-7.

Shi J, Fujisawa S, Nakai S, and Hosomi M. "Biodegradation of natural and synthetic estrogens by nitrifying activated sludge and ammonia-oxidizing bacterium Nitrosomonas europaea." *Water Research* **2004**, *38*(9):2323-2330; doi:10.1016/j.watres.2004.02.022.

Shi JH, Suzuki Y, Nakai S, and Hosomi M. "Mimbial degradation of estrogens using activated sludge and night soil-composting microorganisms." *Water Science and Technology* **2004**, *50*(8):153-159.

Shi L, Zhou XF, Zhang YL, and Gu GW. "Simultaneous determination of 8 fluoroquinolone antibiotics in sewage treatment plants by solid-phase extraction and liquid chromatography with fluorescence detection." *Water Science and Technology* **2009**, *59*(4):805-813; doi:10.2166/wst.2009.062.

Shilling AD, Carlson DB, and Williams DE. "Rainbow trout, Oncorhynchus mykiss, as a model for aromatase inhibition." *Journal of Steroid Biochemistry and Molecular Biology* **1999**, *70*(1-3):89-95; doi:10.1016/S0960-0760(99)00090-4.

Shine J. "Pharmaceutical Compounds in the Environment." testimony of Prof James Shine (Harvard School of Public Health) to Legislative Oversight Hearing, State of Massachusetts Legislature, Joint Committee on Public Health hearing at the State House on “Pharmaceuticals in the Environment and Drinking Water", 2008. 10 pp; http://www.mwra.com/04water/html/pharma/shine_hsph.pdf.

Shin'ichiro N. "Study on development of simultaneous analytical method for 11 pharmaceuticals by LC/MS method." *Report of Hokkaido Institute of Environmental Studies* **2006**, *32*:66-71.

Shinohara H, Murakami M, Managaki S, Kojima S, Takada H, Sato N*, et al.* "Removal of water-soluble organic micro-pollutants by soil infiltration." *Environmental Sciences (Tokyo)* **2006**, *19*(5):435-444.

Shinohara H, Tanishima T, Kojima S, Managaki S, Takada H, Nakada N*, et al.* "Water-soluble Organic Micro-Pollutants in Municipal Wastewater and their Removal During Advanced Treatment." in *Southest Asian Water Environment 2*, Furumai H, Kurisu F, Katayama H, Satoh H, Ohgaki S and Thanh NC, Eds., 2007, pp 311-316; http://books.google.com/books?hl=en&lr=&id=Shl_SJelfygC&oi=fnd&pg=PA311&dq=sewage+Crotamiton+&ots=hf45BMAz5a&sig=1XNuR3sEyC9gRDQT0LuOg-3kuC0 http://www.amazon.com/exec/obidos/ASIN/1843391244.

Shirbacheh MV, Ren XP, Jones JW, Breidenbach WC, Jevans AW, Fernandez-Botran GR*, et al.* "Pharmacokinetic advantage of intra-arterial cyclosporin A delivery to vascularly isolated rabbit forelimb. I. model development." *Journal of Pharmacology and Experimental Therapeutics* **1999**, *289*(3):1185-1190.

Shmayda WT and Gallagher RD. "Recovery of tritium from pharmaceutical mixed waste liquids." *Fusion Science and Technology* **2002**, *41*:726-730.

Shoji R, Sakoda A, Sakai Y, and Suzuki M. "Formulating bioassay data of chemicals and environmental water." *Water Science and Technology* **2000**, *42*(3-4):115-123.

Shon HK, Vigneswaran S, and Snyder SA. "Effluent organic matter (EfOM) in wastewater: Constituents, effects, and treatment." *Critical Reviews in Environmental Science and Technology* **2006**, *36*(3):327-374; doi:10.1080/10643380600580011.

Shore L. "Transport of Steroids in Surface Waters." in *Hormones and Pharmaceuticals Generated by Concentrated Animal Feeding Operations*, Shore LS and Pruden A, Eds., Springer; New York, N.Y., 2009, Chapter 4, pp 23-27; doi:10.1007/978-0-387-92834-0_4; http://dx.doi.org/10.1007/978-0-387-92834-0_4.

Shore L and Wershaw R. "Organic Compounds Used in Animal Husbandry." in *Hormones and Pharmaceuticals Generated by Concentrated Animal Feeding Operations*, Shore LS and Pruden A, Eds., Springer; 2009, Chapter 13, pp 115-123; doi:10.1007/978-0-387-92834-0_13; http://www.springerlink.com/content/x452q3u772707v24/.

Shore LS, Gurevita M, and Shemesh M. "Estrogen as an environmental pollutant." *Bulletin of Environmental Contamination and Toxicology* **1993**, *51*(3):361-366; doi:10.1007/BF00201753.

Shore LS, Reichmann O, Shemesh M, Wenzel A, and Litaor MI. "Washout of accumulated testosterone in a watershed." *Science of the Total Environment* **2004**, *332*(1-3):193-202; doi:10.1016/j.scitotenv.2004.04.009.

Shore LS and Shemesh M. "Naturally produced steroid hormones and their release into the environment." *Pure and Applied Chemistry* **2003**, *75*(11-12):1859-1871.

Sibley SD and Pedersen JA. "Interaction of the Macrolide Antimicrobial Clarithromycin with Dissolved Humic Acid." *Environmental Science & Technology* **2008**, *42*(2):422-428; doi:10.1021/es071467d.

Siegel BB. "Hidden contacts with penicillin." *Bulletin of The World Health Organization* **1959**, *21*:703-713.

Siegener R and Chen RF. "Detection and measurement of the pharmaceuticals entering Boston Harbor." in 216th National Meeting of the American Chemical Society, Boston, MA, American Chemical Society, 23-27 August, 1998, 216.

Siegener R and Chen RF. "Detection of pharmaceuticals entering Boston Harbor." in *Environmental Endocrine Disruptors*, Keith LH, Jones-Lepp TL and Needham LL, Eds., American Chemical Society; Washington, DC, 2000, pp 125-132; http://alpha.es.umb.edu/faculty/rfc/chen.htm.

Siegener R and Chen RF. "Caffeine in Boston Harbor seawater." *Marine Pollution Bulletin* **2002**, *44*(5):383-387; doi:10.1016/S0025-326X(00)00176-4.

Siegrist H, Joss A, Alder AC, Golet EM, Gobel A, Keller E*, et al.* "Fate of pharmaceuticals, personal care products and hormones in municipal wastewater treatment - a new challenge for wastewater management." in POSEIDON Symposium Presentation of Project Results, 2003.

Siemens J, Huschek G, Siebe C, and Kaupenjohann M. "Concentrations and mobility of human pharmaceuticals in the world's largest wastewater irrigation system, Mexico City-Mezquital Valley." *Water Research* **2008**, *42*(8-9):2124-2134.

Sievers RE, Barkley RM, Eiceman GA, Shapiro RH, Walton HF, Kolonko KJ*, et al.* "Environmental trace analysis of organics in water by glass capillary column chromatography and ancillary techniques: Products of ozonolysis." *Journal of Chromatography* **1977**,

142:745-754; doi:10.1016/S0021-9673(01)92082-5.

Signore AA and Jacobs T. "Good Design Practices for GMP Pharmaceutical Facilities." Taylor & Francis, 2005, 550 pp; http://books.google.com/books?hl=en&lr=&id=uuDvdqOLNa0C&oi=fnd&pg=PA23&dq=%22Good+Design+Practices+for+GMP+Pharmaceutical+Facilities%22+&ots=3HSz2nu5t4&sig=jCwRte9IqMu0U-bFkE2Guyh-lQU.

Sigurjónsson A. "Vannýting lyfja. Greining á lyfjum skilað til eyðingar og gögnum úr gagnagrunni Landlæknisembættisins." Masters Dissertation, 2009. http://hdl.handle.net/1946/2647.

Siler S, Duda S, Brown R, Gbemudu J, Weier S, and Glaudemans J. "Safe Disposal of Unused Controlled Substances/Current Challenges and Opportunities for Reform." King Pharmaceuticals, Inc.
Avalere Health LLC, 2008, 74 pp;
http://www.productstewardship.us/associations/6596/files/Safe_Disposal_of_Unused_Controlled_Substances.pdf.

Silva ARM and Nogueira JMF. "New approach on trace analysis of triclosan in personal care products, biological and environmental matrices." *Talanta* **2008**, *74*(5):1498-1504; doi:10.1016/j.talanta.2007.09.040.

Silva ARM, Portugal FCM, and Nogueira JMF. "Advances in stir bar sorptive extraction for the determination of acidic pharmaceuticals in environmental water matrices Comparison between polyurethane and polydimethylsiloxane polymeric phases." *Journal of Chromatography A* **2008**, *1209*(1-2):10-16; doi:10.1016/j.chroma.2008.08.103.

Silva E, Rajapakse N, and Kortenkamp A. "Something from "Nothing" - Eight Weak Estrogenic Chemicals Combined at Concentrations below NOECs Produce Significant Mixture Effects." *Environmental Science & Technology* **2002**, *36*(8):1751-1756; doi:10.1021/es0101227.

Silva MJ, Barr DB, Reidy JA, Malek NA, Hodge CC, Caudill SP*, et al.* "Urinary levels of seven phthalate metabolites in the U.S. population from the National Health and Nutrition Examination Survey (NHANES) 1999-2000." *Environmental Health Perspectives* **2004**, *112*(3):331-338; doi:10.1289/ehp.6723.

Silverio F, dos Reis MJ, Tronto J, and Valim JB. "Removal of aliphatic amino acids by hybrid organic-inorganic layered compounds." *Applied Surface Science* **2007**, *253*(13):5756-5761; doi:10.1016/j.apsusc.2006.12.040.

Silverman S, "Placebos Are Getting More Effective. Drugmakers Are Desperate to Know Why." *Wired*, 24 August, 2009, 8 pp; http://www.wired.com/medtech/drugs/magazine/17-09/ff_placebo_effect.

Sim W-J, Lee J-W, and Oh J-E. "Occurrence and fate of pharmaceuticals in wastewater treatment plants and rivers in Korea." *Environmental Pollution* **2009**, *In Press*; doi:10.1016/j.envpol.2009.10.036.

Siminiceanu I and Bobu M-M. "A comparative kinetic study of the ciprofloxacin degradation in water by several advanced oxidation processes." *Revista de Chimie* **2006**, *57*(12):1205-1209.

Simmons D, Trudeau V, Marlatt V, Moon T, Sherry J, and Metcalfe C. "Interaction of Stilbene Compounds with Human and Rainbow Trout Estrogen Receptors." *Environmental Toxicology and Chemistry* **2008**, *27*(2); doi:10.1897/07-146R.1.

Simmons DL. "What makes a good anti-inflammatory drug target?" *Drug Discovery Today* **2006**, *11*:210-219.

Simon A, Nghiem LD, Le-Clech P, Khan SJ, and Drewes JE. "Effects of membrane degradation on the removal of pharmaceutically active compounds (PhACs) by NF/RO filtration processes." *Journal of Membrane Science* **2009**, *340*(1-2):16-25; doi:10.1016/j.memsci.2009.05.005.

Simon NS. "Loosely bound oxytetracycline in riverine sediments from two tributaries of the Chesapeake Bay." *Environmental Science & Technology* **2005**, *39*(10):3480-3487; doi:10.1021/es049039k.

Simonich SL, Begley WM, Debaere G, and Eckhoff WS. "Trace Analysis of Fragrance Materials in Wastewater and Treated Wastewater." *Environmental Science & Technology* **2000**, *34*(6):959-965; doi:10.1021/es991018g.

Simonich SL, Federle TW, Eckhoff WS, Rottiers A, Webb S, Sabaliunas D*, et al.* "Removal of fragrance materials during US and European wastewater treatment." *Environmental Science & Technology* **2002**, *36*(13):2839-2847; doi:10.1021/es025503e.

Sinah Hikim AP and Chakraborty J. "Effects of diazocholesterol dihydrochloride (SC-12937), an avian antifertility agent, on rat testis." *Journal of Andrology* **1986**, *7*:277-284.

Sinar E. "Pharmaceuticals in human sanitary products for use in tropical agriculture - Case study at the Valley View University in Accra, Ghana." Master Dissertation, Institute for Plant Production and Agroecology in the Tropics and Subtropics, Department of Agroecology, Hohenheim, Germany, 2008. 115 pp; http://www2.gtz.de/Dokumente/oe44/ecosan/en-pharmaceuticals-human-sanitary-2008.pdf.

Singer AC, Nunn MA, Gould EA, and Johnson AC. "Potential risks associated with the proposed widespread use of tamiflu." *Environmental Health Perspectives* **2007**, *115*(1):102–106; doi:10.1289/ehp.9574.

Singer GA and Battin TJ. "Anthropogenic subsidies alter stream consumer-resource stoichiometry, biodiversity, and food chains." *Ecological Applications* **2007**, *17*(2):376-389.

Singer H, Müller S, Tixier C, and Pillonel L. "Triclosan: Occurrence and fate of a widely used biocide in the aquatic environment: Field measurements in wastewater treatment plants, surface waters, and lake sediments." *Environmental Science & Technology* **2002**, *36*(23):4998-5004; doi:10.1021/es025750i.

Singer RS and Hofacre CL. "Potential impacts of antibiotic use in poultry production." *Avian Diseases* **2006**, *50*(2):161-172; doi:10.1637/7569-033106R.1.

Singer RS, Ward MP, and Maldonado G. "Opinion - Can landscape ecology untangle the complexity of antibiotic resistance?" *Nature Reviews Microbiology* **2006**, *4*(12):943-952; doi:10.1038/nrmicro1553.

Singer RS, Ward MP, and Maldonado G. "Can landscape ecology untangle the complexity of antibiotic resistance?" *Nature Reviews Microbiology* **2006**, *4*(12):943-952; doi:10.1038/nrmicro1553.

Singh L. "An experiment to identify levels of triclosan that are harmful to bacteria in Puget Sound." University of Washington, 2007. 18 pp; https://dlib.lib.washington.edu/dspace/handle/1773/3216?show=full.

Singh M. "The pharmaceutical supply chain: a diagnosis of the state-of-the-art." Masters Dissertation, University of Tennessee, Engineering Systems Division, 2005. 158 pp; http://ctl.mit.edu/public/2005_Singh_Thesis.pdf.

Singh S, Azua A, Chaudhary A, Khan S, Willett K, and Gardinali P. "Occurrence and distribution of steroids, hormones and selected pharmaceuticals in South Florida coastal environments." *Ecotoxicology* **2009**, *In Press*; doi:10.1007/s10646-009-0416-0.

Singh SP. "Assessing the sources, quantities, and trends on human waste contamination along protected south Florida ecosystem: A chemical tracer based study." Doctoral Dissertation, Florida International University, Miami, Florida, 2006. 237 pp; http://wwwlib.umi.com/dissertations/fullcit/3235619.

Singleton FL, Deming JW, Peele ER, Cavari B, and Gunn B. "Microbial Communities In Surface Waters At the Puerto Rico Dumpsite." in *Wastes in the Ocean*, John Wiley and Sons; New York, N.Y., 1983, pp 201-218; http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=8707406&q=+pharmaceutical+disposal&uid=790088066&setcookie=yes.

Sinha Hikim AP. "Effect of 22,25-diazocholesterol dihydrochloride on the spermatogenesis of a wild rat, bandicota bengalensis." *International Journal of Fertility* **1987**, *32*(4):320-323.

Sinha Hikim AP and Chakraborty J. "Effects of diazacholesterol dihydrochloride (SC-12937), an avian antifertility agent, on rat testis." *Journal of Andrology* **1986**, *7*(5):277-284.

Šinigoj-Gačnik K, Cerkvenik-Flajs V, and Vadnjal S. "Evidence of Veterinary Drug Residues in Slovenian Freshwater Fish." *Bulletin of Environmental Contamination and Toxicology* **2005**, *75*(1):109-114; doi:10.1007/s00128-005-0725-9.

Sipkoff M. "Four-dollar pricing considered boon and bust." *Drug Topics Supplements* **2008**:1-4.

Sipma J, Osuna B, Collado N, Monclús H, Ferrero G, Comas J*, et al.* "Comparison of removal of pharmaceuticals in MBR and activated sludge systems." *Desalination* **2010**, *250*(2):653-659; doi:10.1016/j.desal.2009.06.073.

Sirbu DM, Curseu D, Popa M, Achimas-Cadariu A, and Moldovan Z. "Environmental risks of pharmaceuticals and Personal care products in water." presented at Tenth International Water Technology Conference, IWTC10, at Alexandria, Egypt, 2006; http://www.iwtc.info/2006_pdf/15-2.pdf.

Sires I, Arias C, Cabot PL, Centellas F, Garrido JA, Rodriguez RM*, et al.* "Degradation of clofibric acid in acidic aqueous medium by electro-Fenton and photoelectro-Fenton." *Chemosphere* **2007**, *66*(9):1660-1669; doi:10.1016/j.chemosphere.2006.07.039.

Sires I, Cabot PL, Centellas F, Garrido JA, Rodriguez RM, Arias C*, et al.* "Electrochemical degradation of clofibric acid in water by anodic oxidation: Comparative study with platinum and boron-doped diamond electrodes." *Electrochimica Acta* **2006**, *52*(1):75-85; doi:10.1016/j.electacta.2006.03.075.

Sirés I, Centellas F, Garrido JA, Rodríguez RM, Arias C, Cabot P-L*, et al.* "Mineralization of clofibric acid by electrochemical advanced oxidation processes using a boron-doped diamond anode and Fe^{2+} and UVA light as catalysts." *Applied Catalysis B: Environmental* **2007**, *72*(3-4):373-381; doi:10.1016/j.apcatb.2006.12.002.

Sires I, Garrido JA, Rodriguez RM, Cabot PI, Centellas F, Arias C*, et al.* "Electrochemical degradation of paracetamol from water by catalytic action of Fe^{2+}, Cu^{2+}, and UVA light on electrogenerated hydrogen peroxide." *Journal of the Electrochemical Society* **2006**, *153*(1):D1-D9; doi:10.1149/1.2130568.

Sires I, Oturan N, Oturan MA, Rodriguez RM, Garrido JA, and Brillas E. "Electro-Fenton degradation of antimicrobials triclosan and triclocarban." *Electrochimica Acta* **2007**, *52*(17):5493-5503; doi:10.1016/j.electacta.2007.03.011.

Sirés Sadornil I. "Electrochemical Advanced Oxidation Processes for the Removal of the Drugs Paracetamol, Clofibric Acid and Chlorophene from Waters." Doctoral Dissertation, Universitat de Barcelona - TDR, Barcelona, Spain, 2007. http://www.recolecta.net/buscador/single_page.jsp?id=oai:UB.es:TDX-0126107-111807.

Sirtori C, Zapata A, Oller I, Gernjak W, Agüera A, and Malato S. "Decontamination industrial pharmaceutical wastewater by combining solar photo-Fenton and biological treatment." *Water Research* **2009**, *43*(3):661-668; doi:10.1016/j.watres.2008.11.013.

Sissell K. "Personal care products face increased regulatory scrutiny." *Chemical Week* **2005**, *167*(May 11):37.

Sithole BB and Guy RD. "Models for tetracycline in aquatic environments, I." *Water, Air, & Soil Pollution* **1987**, *32*(3-4):303-314; doi:10.1007/BF00225116.

Sithole BB and Guy RD. "Models for tetracycline in aquatic environments, II." *Water, Air, & Soil Pollution* **1987**, *32*(3):315-321; doi:10.1007/BF00225117.

Skadsen JM, Rice BL, and Meyering DJ. "The Occurrence and Fate of Pharmaceuticals, Personal Care Products and Endocrine Disrupting Compounds in a Municipal Water Use Cycle: A Case Study in the City of Ann Arbor." City of Ann Arbor, Water Utilities, Fleis & VandenBrink Engineering, Inc., November, 2004, 22 pp; http://www.a2gov.org/government/publicservices/water_treatment/Documents/EndocrineDisruptors.pdf.

Skillman AD, Nagler JJ, Hook SE, Small JA, and Schultz IR. "Dynamics of 17α-ethynylestradiol exposure in rainbow trout (Oncorhynchus mykiss): Absorption, tissue distribution, and hepatic gene expression pattern." *Environmental Toxicology and Chemistry* **2006**, *25*(11):2997-3005; doi:10.1897/05-565R.1.

Skladanowski AC, Stepnowski P, Kleszczynski K, and Dmochowska B. "AMP deaminase in vitro inhibition by xenobiotics: A potential molecular method for risk assessment of synthetic nitro- and polycyclic musks, imidazolium ionic liquids and N-glucopyranosyl ammonium salts." *Environmental Toxicology and Pharmacology* **2005**, *19*(2):291-296; doi:10.1016/j.etap.2004.08.005.

Skotnicka-Pitak J, Garcia EM, Pitak M, and Aga DS. "Identification of the transformation products of 17*α*-ethinylestradiol and 17*β*-estradiol by mass spectrometry and other instrumental techniques." *Trends in Analytical Chemistry* **2008**, *28*(11):1036-1052; doi:10.1016/j.trac.2008.10.003.

Skotnicka-Pitak J, Khunjar WO, Love NG, and Aga DS. "Characterization of Metabolites Formed During the Biotransformation of 17α-Ethinylestradiol by Nitrosomonas europaea in Batch and Continuous Flow Bioreactors." *Environmental Science & Technology* **2009**, *43*(10):3549-3555; doi:10.1021/es8026659.

Skoumal M, Arias C, Lluis Cabot P, Centellas F, Antonio Garrido J, Maria Rodriguez R*, et al.* "Mineralization of the biocide chloroxylenol by electrochemical advanced oxidation processes." *Chemosphere* **2008**, *71*(9):1718-1729; doi:10.1016/j.chemosphere.2007.12.029.

Skoumal M, Cabot PL, Centellas F, Arias C, Rodriguez RM, Garrido JA*, et al.* "Mineralization of paracetamol by ozonation catalyzed with Fe^{2+}, Cu^{2+} and UVA light." *Applied Catalysis B: Environmental* **2006**, *66*(3-4):228-240; doi:10.1016/j.apcatb.2006.03.016.

Skoumal M, Rodríguez RM, Cabot PL, Centellas F, Garrido JA, Arias C*, et al.* "Electro-Fenton, UVA photoelectro-Fenton and solar photoelectro-Fenton degradation of the drug ibuprofen in acid aqueous medium using platinum and boron-doped diamond anodes."

Electrochimica Acta **2009**, *54*(7):2077-2085; doi:10.1016/j.electacta.2008.07.014.

Skutlarek D. "Analysenmethoden für Antibiotika und perfluorierte Tenside in wässrigen Matrizes mittels LC-MS/MS nach SPE-Anreicherung." Doctoral Dissertation, Ruprecht-Karls-Universität, Bonn, Germany, 2008. 146 pp; http://archiv.ub.uni-heidelberg.de/volltextserver/volltexte/2008/8922/pdf/Dissertation_Skutlarek_Dirk_2008.pdf.

Slack RJ, Bonin M, Gronow JR, Van Santen A, and Voulvoulis N. "Household hazardous waste data for the UK by direct sampling." *Environmental Science & Technology* **2007**, *41*(7 April 1):2566,2571; doi:10.1021/es061775w.

Slack RJ, Gronow JR, Hall DH, and Voulvoulis N. "Household hazardous waste disposal to landfill: Using LandSim to model leachate migration." *Environmental Pollution* **2007**, *146*(2):501-509; doi:10.1016/j.envpol.2006.07.011.

Slack RJ, Gronow JR, and Voulvoulis N. "Hazardous components of household waste." *Critical Reviews in Environmental Science and Technology* **2004**, *34*(5):419-445; doi:10.1080/10643380490443272.

Slack RJ, Gronow JR, and Voulvoulis N. "Household hazardous waste in municipal landfills: contaminants in leachate." *Science of the Total Environment* **2005**, *337*(1-3):119-137; doi:10.1016/j.scitotenv.2004.07.002.

Slack RJ, Zerva P, Gronow JR, and Voulvoulis N. "Assessing quantities and disposal routes for household hazardous products in the United Kingdom." *Environmental Science & Technology* **2005**, *39*(6):1912-1919; doi:10.1021/es0404062.

Slanina P. "Risk evaluation of dietary and dermal exposure to musk fragrances." in *Synthetic Musk Fragrances in the Environment*, Rimkus GG, Ed., Springer-Verlag; Heidelberg, 2004, pp 281-310.

Slater CS and Savelski M. "A method to characterize the greenness of solvents used in pharmaceutical manufacture." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2007**, *42*(11):1595-1605; doi:10.1080/10934520701517747.

Slaughter L. 2009, "H.R.1549/S.619: PAMTA - Preservation of Antibiotics for Medical Treatment Act of 2009." E689 pp; http://frwebgate.access.gpo.gov/cgi-bin/getpage.cgi?dbname=2009_record&page=E689&position=all, http://www.saveantibiotics.org/newsroom/pr_17march2009.html, http://www.govtrack.us/congress/bill.xpd?bill=h111-1549.

Slavotinek AM and Biesecker LG. "Unfolding the role of chaperones and chaperonins in human disease." *Trends in Genetics* **2001**, *17*(9):528-535; doi:10.1016/S0168-9525(01)02413-1.

Sleator RD and Hill C. "Battle of the bugs." *Science* **2008**, *321*(5894):1294.

Slecker BrR. "Many Unhappy Returns: An industry report and guidebook on pharmaceutical returned goods." HDMA Healthcare Foundation, Foundation HR, Ed., Reston, VA, 2002, 14 pp.

Sleeman R, Burton F, Carter J, Roberts D, and Hulmston P. "Drugs on money." *Analytical Chemistry* **2000**, *398*(June 1):A-402 A.

Slegers C and Tilquin B. "Final product analysis in the e-beam and gamma radiolysis of aqueous solutions of metoprolol tartrate." *Radiation Physics and Chemistry* **2006**, *75*(9):1006-1017; doi:10.1016/j.radphyschem.2005.12.020.

Slikker JW, Andersen ME, Bogdanffy MS, Bus JS, Cohen SD, Conolly RB*, et al.* "Dose-dependent transitions in mechanisms of toxicity: case studies." *Toxicology and Applied Pharmacology* **2004**, *201*(3):226-294; doi:10.1016/j.taap.2004.06.027.

Slikker JW, Andersen ME, Bogdanffy MS, Bus JS, Cohen SD, Conolly RB*, et al.* "Dose-dependent transitions in mechanisms of toxicity." *Toxicology and Applied Pharmacology* **2004**, *201*(3):203-225; doi:10.1016/j.taap.2004.06.019.

Slovic P. "Trust, emotion, sex, politics, and science: Surveying the risk-assessment battlefield." *Risk Analysis* **1999**, *19*(4):689-701.

Slovic P. "The risk game." *Journal of Hazardous Materials* **2001**, *86*(1-3):17-24; doi:10.1016/S0304-3894(01)00248-5.

Slovic P and Weber EU. "Perception of Risk Posed by Extreme Events." in Risk management strategies in an uncertain world, Palisades, NY, 12-13 April, 2002, 21 pp; http://www.ldeo.columbia.edu/chrr/documents/meetings/roundtable/white_papers/slovic_wp.pdf.

Sludge News "Sludge News." 2008, http://www.sludgenews.org.

Smelby KL. "Occurrence and fate of fluoroquinolone antibiotics in wastewater treatment systems." Masters Dissertation, Georgia

Institute of Technology, 2002. http://hdl.handle.net/1853/19914.

Smital T. "Acute and Chronic Effects of Emerging Contaminants." *The Handbook of Environmental Chemistry* **2008**, *5, Part S/1*:105-142; doi:10.1007/698_5_105.

Smital T and Kurelec B. "The chemosensitizers of multixenobiotic resistance mechanism in aquatic invertebrates: a new class of pollutants." *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis* **1998**, *399*(1):43-53; doi:10.1016/S0027-5107(97)00265-0.

Smital T, Luckenbach T, Sauerborn R, Hamdoun AM, Vega RL, and Epel D. "Emerging contaminants--pesticides, PPCPs, microbial degradation products and natural substances as inhibitors of multixenobiotic defense in aquatic organisms." *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis* **2004**, *552*(1-2):101-117; doi:10.1016/j.mrfmmm.2004.06.006.

Smital T, Sauerborn R, and Hackenberger BK. "Inducibility of the P-glycoprotein transport activity in the marine mussel Mytilus galloprovincialis and the freshwater mussel Dreissena polymorpha." *Aquatic Toxicology* **2003**, *65*(4):443-465; doi:10.1016/S0166-445X(03)00175-9.

Smital T, Sauerborn R, Pivcevic B, Krca S, and Kurelec B. "Interspecies differences in P-glycoprotein mediated activity of multixenobiotic resistance mechanism in several marine and freshwater invertebrates." *Comparative Biochemistry and Physiology C: Pharmacology Toxicology and Endocrinology* **2000**, *126*(2):175-186; doi:10.1016/S0742-8413(00)00110-9.

Smith AJ, Balaam JL, and Ward A. "The development of a rapid screening technique to measure antibiotic activity in effluents and surface water samples." *Marine Pollution Bulletin* **2007**, *54*(12):1940-1946; doi:10.1016/j.marpolbul.2007.08.019.

Smith C. "Managing Pharmaceutical Waste: Connecticut Hospital Roudtable." 8 September 2005; http://www.ct.gov/dep/lib/dep/p2/institution/pharmaceutical_waste.pdf.

Smith C and McGurk J. "Managing Pharmaceutical Waste: A 10-Step Blueprint for Health Care Facilities In the United States." Practice Greenhealth, August, 2008, 93 pp; http://www.practicegreenhealth.org/page_attachments/0000/0102/PharmWasteBlueprint.pdf.

Smith C and McGurk J. "Managing Pharmaceutical Waste: A 10-Step Blueprint for Health Care Facilities In the United States Revised for California Healthcare Facilities." Hospitals for a Healthy Environment, Practice Greenhealth, BAPPG Bay Area Pollution Prevention Group, August, 2008, 94 pp; http://www.bacwa.org/LinkClick.aspx?fileticket=dLjPqQLP5nI%3D&tabid=71&mid=415.

Smith CA. "Rationale for inclusion of criteria for proper disposal of monography pharmaceutical preparations based on the Resource Conservation and Recovery Act." *Pharmacopeial forum* **1999**, *25*(3):8309-8312.

Smith CA. "Managing Pharmaceutical Waste: What Pharmacists Should Know." *Journal of the Pharmacy Society of Wisconsin* **2002**, *Nov/Dec*:17-22.

Smith CA. "Pharmaceuticals Take Back Program." in ASTSWMO (Association of State and Territorial Solid Waste Management Officials) State Hazardous Waste Conference, Minneapolis, MN, 29 July, 2002.

Smith CA. "The right prescription. Managing pharmaceutical waste is environmentally correct and the law." *Health Facilities Management* **2003**, *16*(5):30-34.

Smith DA and Obach RS. "Metabolites and Safety: What Are the Concerns, and How Should We Address Them?" *Chemical Research in Toxicology* **2006**, *19*(12):1570-1579; doi:10.1021/tx0602012.

Smith DeWaal C. "Safe food from a consumer perspective." *Food Control* **2003**, *14*(2):75-79; doi:10.1016/S0956-7135(02)00114-7.

Smith DJ, Gingerich WH, and Beconi-Barker MG, Eds., "Xenobiotics in Fish." Kluwer Academic/Plenum Publishers, New York, 1999, 220 pp; http://bookshop.blackwell.co.uk/jsp/id/Xenobiotics_in_Fish/9780306461897.

Smith DL, Dushoff J, and Morris JG. "Agricultural antibiotics and human health - Does antibiotic use in agriculture have a greater impact than hospital use?" *PLoS Medicine* **2005**, *2*(8):731-735.

Smith GR and Burgett AA. "Effects of three organic wastewater contaminants on American toad, Bufo americanus, tadpoles." *Ecotoxicology* **2005**, *14*(4):477-482.

Smith LW. "The scientific basis for sound decisions on fragrance material use." *Regulatory Toxicology and Pharmacology* **2003**,

37(2):172; doi:10.1016/S0273-2300(03)00011-4.

Smith LW. "More recent studies on fragrances." *Environmental Health Perspectives* **2004**, *112*(15):A865.

Smith LW and Api AM. "Group summaries and fragrance material reviews." *Food and Chemical Toxicology* **2003**, *41*(7):917-917; doi:10.1016/S0278-6915(03)00013-9.

Smith LW and Api AM. "RIFM toxicologic and dermatologic assessments of linalool and related esters when used as fragrance ingredients." *Food and Chemical Toxicology* **2003**, *41*(7):917-1050.

Smith LW and Salvito DT. "Comments on 'The Sweet Scent on Baby's Breath?'." *Environmental Health Perspectives* **2008**, *116*(4):154A-155A.

Smith MS, Yang RK, Knapp CW, Niu Y, Peak N, Hanfelt MM*, et al.* "Quantification of Tetracycline Resistance Genes in Feedlot Lagoons by Real-Time PCR." *Applied and Environmental Microbiology* **2004**, *70*(12):7372-7377; doi:10.1128/aem.70.12.7372-7377.2004.

Smith P. "Is sediment deposition the dominant fate of oxytetracycline used in marine salmonid farms: a review of available evidence." *Aquaculture* **1996**, *146*(3-4):157-169; doi:10.1016/S0044-8486(96)01382-8.

Smith P. "Antimicrobial resistance in aquaculture." *Revue Scientifique et Technique* **2008**, *27*(1):243-264.

Smith P and Samuelsen OB. "Estimates of the significance of out-washing of oxytetracycline from sediments under Atlantic salmon sea-cages." *Aquaculture* **1996**, *144*(1-3):17-26; doi:10.1016/S0044-8486(96)01318-X.

Smith SR. "Organic contaminants in sewage sludge (biosolids) and their significance for agricultural recycling." *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences* **2009**, *367*(1904):4005-4041; doi:10.1098/rsta.2009.0154.

Smith SW. "Chiral Toxicology: It's the Same Thing...Only Different." *Toxicological Sciences* **2009**, *110*(1):4-30; doi:10.1093/toxsci/kfp097.

Smith TC, Male MJ, Harper AL, Kroeger JS, Tinkler GP, Moritz ED*, et al.* "Methicillin-Resistant Staphylococcus aureus (MRSA) Strain ST398 Is Present in Midwestern U.S. Swine and Swine Workers." *PloS One* **2009**, *4*(1):e4258; doi:10.1371/journal.pone.0004258.

Smolensky MH and Peppas NA. "Chronobiology, drug delivery, and chronotherapeutics." *Advanced Drug Delivery Reviews* **2007**, *59*(9-10):828-851; doi:10.1016/j.addr.2007.07.001.

Smook TM, Zho H, and Zytner RG. "Removal of ibuprofen from wastewater: comparing biodegradation in conventional, membrane bioreactor, and biological nutrient removal treatment systems." *Water Science and Technology* **2008**, *57*(1):1-8; doi:10.2166/wst.2008.658.

Smyrniotakis CG and Archontaki HA. "C_{18} columns for the simultaneous determination of oxytetracycline and its related substances by reversed-phase high performance liquid chromatography and UV detection." *Journal of Pharmaceutical and Biomedical Analysis* **2007**, *43*(2):506-514; doi:10.1016/j.jpba.2006.07.048.

Smyth SA, Lishman L, Alaee M, Kleywegt S, Svoboda L, Yang JJ*, et al.* "Sample storage and extraction efficiencies in determination of polycyclic and nitro musks in sewage sludge." *Chemosphere* **2007**, *67*(2):267-275; doi:10.1016/j.chemosphere.2006.10.031.

Smyth SA, Lishman L, Kleywegt S, Svoboda ML, Lee H-B, and Seto P. "Pharmaceuticals and Personal Care Products in Canadian Municipal Wastewater." *Proceedings of the Water Environment Federation* **2008**, *2008*:3505-3518.

Smyth SA, Lishman LA, McBean EA, Kleywegt S, Yang J-J, Svoboda ML*, et al.* "Fate of Polycyclic and Nitro Musks during Aerobic and Anaerobic Sludge Digestion." in Moving forward wastewater biosolids sustainability: technical, managerial, and public synergy, New Brunswick, 24-27 June, 2007, 223-229 pp; http://www.bvsde.paho.org/bvsaar/cdlodos/pdf/fateofpolycyclic223.pdf.

Smyth SA, Lishman LA, McBean EA, Kleywegt S, Yang J-J, Svoboda MLewina*, et al.* "Seasonal occurrence and removal of polycyclic and nitro musks from wastewater treatment plants in Ontario, Canada." *Journal of Environmental Engineering and Science* **2008**, *7*(4):299-317; doi:10.1139/S08-002.

Smyth WF. "Electrospray ionisation mass spectrometric behaviour of selected drugs and their metabolites." *Analytica Chimica Acta*

2003, *492*(1-2):1-16; doi:10.1016/S0003-2670(02)01474-5.

Snaprud P, "Drogjakt i avloppet: I sommar börjar norska kemister spåra narkotika via avloppet. Analyserna väcker frågan om vem som har rätt att snoka i det du spolar ner [Drug Hunting down the drain: This summer begins Norwegian chemists to track drugs through the drain. The analysis raises the question of who has the right to snoop into what you flush down]." *Forskning & Framsteg*, 2009, 3 http://www.fof.se/tidning/2009/3/drogjakt-i-avloppet.

Snell B. "Inappropriate drug donations: the need for reforms." *The Lancet* **2001**, *358*(9281):578-580; doi:10.1016/S0140-6736(01)05712-9.

Snell MB. "Welcome to meth country." *Sierra* **2001**, *86*(1):50.

Snell TW and Serra M. "Using probability of extinction to evaluate the ecological significance of toxicant effects." *Environmental Toxicology and Chemistry* **2000**, *19*(9):2357-2363; doi:10.1897/1551-5028(2000)019<2357:UPOETE>2.3.CO;2.

Snijdelaar M, Leijen C, Lambers J, and Brandwijk T. "Problematiek rond diergeneesmiddelen in oppervlaktewater [Problem of veterinary drugs in surface]." Ministerie van Landbouw, Natuur en Voedselkwaliteit, Directie Kennis [Ministry of Agriculture, Nature and Food Quality, Knowledge Management], 2006, 34 pp; http://translate.google.com/translate?hl=en&sl=nl&u=http://library.wur.nl/WebQuery/hydrotheek/lang/1857687&ei=rUSySrbaC4nZlAel2P2TDw&sa=X&oi=translate&resnum=1&ct=result&prev=/search%3Fq%3DProblematiek%2Brond%2Bdiergeneesmiddelen%2Bin%2Boppervlaktewater%26hl%3Den%26rlz%3D1T4GGLL_enUS337US337.

Snow DD, Bartelt-Hunt SL, Saunders SE, Devivo SL, and Cassada DA. "Detection, Occurrence and Fate of Emerging Contaminants in Agricultural Environments." *Water Environment Research* **2008**, *80*(10):868-2092; doi:10.2175/106143008X328518.

Snow DD, Cassada DA, Monson SJ, Zhu J, and Spalding RF. "Tetracycline and macrolide antibiotics - Trace analysis in water and wastewater using solid phase extraction and liquid chromatography-tandem mass spectrometry." in *Emerging Contaminants Using Liquid Chromatography/Mass Spectrometry*, American Chemical Society; Lincoln, Nebraska, 2003, pp 161-174; http://nebraskamaps.unl.edu/viewPrd.asp?idcategory=93&idproduct=8975.

Snyder C. "The Dirty Work of Promoting “Recycling” of America’s Sewage Sludge." *International Journal of Occupational and Environmental Health* **2005**, *11*(4):415-427.

Snyder C. "Promoting "Recycling" of Sewage Sludge: In Reply." *International Journal of Occupational and Environmental Health* **2006**, *12*(2):191-192.

Snyder EM, Pleus RC, and Snyder SA. "Pharmaceuticals and EDCs in the US water industry – An update." *Journal - American Water Works Association* **2005**, *97*(11):32-.

Snyder EM, Pleus RC, and Snyder SA. "Pharmaceuticals and EDCs in the Water Industry - an update." *American Water Works Association* **2005**:32-36.

Snyder EM, Snyder SA, Kelly KL, Gross TS, Villeneuve DL, Fitzgerald SD*, et al.* "Reproductive responses of common carp (Cyprinus carpio) exposed in cages to influent of the Las Vegas Wash in Lake Mead, Nevada, from late winter to early spring." *Environmental Science & Technology* **2004**, *38*(23):6385-6395; doi:10.1021/es049690n.

Snyder MJ. "Cytochrome P450 enzymes in aquatic invertebrates: recent advances and future directions." *Aquatic Toxicology* **2000**, *48*(4):529-547; doi:10.1016/S0166-445X(00)00085-0.

Snyder MJ, Girvetz E, and Mulder EP. "Induction of Marine Mollusc Stress Proteins by Chemical or Physical Stress." *Archives of Environmental Contamination and Toxicology* **2001**, *41*(1):22-29; doi:10.1007/s002440010217.

Snyder RD and Green JW. "A review of the genotoxicity of marketed pharmaceuticals." *Mutation Research/Reviews in Mutation Research* **2001**, *488*(2):151-169; doi:10.1016/S1383-5742(01)00055-2.

Snyder S, Vanderford B, Pearson R, Quinones Q, and Yoon Y. "Analytical Methods Used to Measure Endocrine Disrupting Compounds in Water." *Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management* **2003**, *7*(4):224-234.

Snyder S, Wert E, Zegers R, and Drury D. "Oxidation of edcs and pharmaceuticals in reuse water." *Proceedings of the Water Environment Federation* **2007**, *2007*:101-111; doi:10.2175/193864707787932450.

Snyder S, Westerhoff P, Wert E, and Yoon Y. "Endocrine disruptors and pharmaceuticals: implications for the water industry."

Proceedings of the Water Environment Federation **2005**, *2005*:3166-3193; doi:10.2175/193864705783865569.

Snyder SA. "Occurrence, treatment, and toxicological relevance of EDCs and pharmaceuticals in water." *Ozone: Science & Engineering* **2008**, *30*(1):65-69; doi:10.1080/01919510701799278.

Snyder SA. "Statement of Dr. Shane Snyder, Southern Nevada Water Authority before the Senate Subcommittee on Transportation Safety, Infrastructure Security, and Water Quality on Pharmaceuticals in the Nation's Water: Assessing Potential Risks and Actions to Address the Issue." U.S. Senate Committee on Environment & Public Works, 15 April 2008. http://epw.senate.gov/public/index.cfm?FuseAction=Hearings.Hearing&Hearing_ID=30641a14-802a-23ad-4b51-a10dd439793f.

Snyder SA, "Pharmaceuticals in Water: Implications for Sustainability." *Southwest Hydrology*, January-February, 2009, January/February 22-23 pp; http://www.swhydro.arizona.edu/archive/V8_N1/feature3.pdf.

Snyder SA, Adham S, Redding AM, Cannon FS, DeCarolis J, Oppenheimer J*, et al.* "Role of membranes and activated carbon in the removal of endocrine disruptors and pharmaceuticals." *Desalination* **2007**, *202*(1-3):156-181; doi:10.1016/j.desal.2005.12.052.

Snyder SA, Keith TL, Verbrugge DA, Snyder EM, Gross TS, Kannan K*, et al.* "Analytical methods for detection of selected estrogenic compounds in aqueous mixtures." *Environmental Science & Technology* **1999**, *33*(16):2814-2820; doi:10.1021/es981294f.

Snyder SA, Kelly KL, Grange AH, Sovocool GW, Snyder EM, and Giesy JP. "Pharmaceuticals and personal care products in the waters of Lake Mead, Nevada." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 7, pp 116-139; doi:10.1021/bk-2001-0791.ch007; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Snyder SA, Lei H, and Wert EC. "Removal of Endocrine Disruptors and Pharmaceuticals during Water Treatment." in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press; Boca Raton, FL, 2007, Chapter 11, pp 229-260; http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Treatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#PPR8,M1.

Snyder SA, Leising J, Westerhoff P, Yoon Y, Mash H, and Vanderford B. "Biological and physical attenuation of endocrine disruptors and pharmaceuticals: Implications for water reuse." *Ground Water Monitoring & Remediation* **2004**, *24*(2):108-118; doi:10.1111/j.1745-6592.2004.tb00719.x.

Snyder SA, Pleus RC, Vanderford BJ, and Holady JC. "Perchlorate and chlorate in dietary supplements and flavor enhancing ingredients." *Analytica Chimica Acta* **2006**, *567*(1):26-32; doi:10.1016/j.aca.2006.03.029.

Snyder SA, Trenholm RA, Snyder EM, Bruce GM, Bennett E, Pleus RC*, et al.* "Toxicological Relevance of EDCs and Pharmaceuticals in Drinking Water." AWWA Research Foundation, 978-1-60573-040-0, Denver, CO, 2008, 322 pp; http://www.iwaponline.com/wio/2009/07/wio200907AF91238F.htm.

Snyder SA, Vanderford BJ, Drewes J, Dickenson E, Snyder EM, Bruce GM*, et al.* "State of Knowledge of Endocrine Disruptors and Pharmaceuticals in Drinking Water." Denver, CO, American Water Works Association, AWWA Research Foundation, 2008, 268 pp; http://www.awwa.org/bookstore/productDetail.cfm?ItemNumber=43088.

Snyder SA, Vanderford BJ, and Rexing DJ. "Trace analysis of bromate, chlorate, iodate, and perchlorate in natural and bottled water." *Environmental Science & Technology* **2006**, *39*(12):4586-4593; doi:10.1021/es047935q.

Snyder SA, Villeneuve DL, Snyder EM, and Giesy JP. "Identification and Quantification of Estrogen Receptor Agonists in Wastewater Effluents." *Environmental Science & Technology* **2001**, *35*(18):3620-3625.

Snyder SA, Wert EC, Lei H, Westerhoff P, and Yoon Y. "Removal of EDCs and Pharmaceuticals in Drinking and Reuse Treatment Processes." Denver, CO, IWA Publishing, 2007, 331 pp; http://ualweb.library.ualberta.ca/uhtbin/cgisirsi/x/0/0/57/5?user_id=WUAARCHIVE&searchdata1=4198864.

Snyder SA, Wert EC, Rexing DJ, Zegers RE, and Drury DD. "Ozone oxidation of endocrine disruptors and pharmaceuticals in surface water and wastewater." *Ozone: Science & Engineering* **2006**, *28*(6):445-460; doi:10.1080/01919510601039726.

Snyder SA, Westerhoff P, Yoon Y, and Sedlak DL. "Pharmaceuticals, Personal Care Products, and Endocrine Disruptors in Water: Implications for the Water Industry." *Environmental Engineering Science* **2003**, *20*(5):449-469; doi:10.1089/109287503768335931.

Soares A, Guieysse B, Jefferson B, Cartmell E, and Lester JN. "Nonylphenol in the environment: A critical review on occurrence, fate, toxicity and treatment in wastewaters." *Environment International* **2008**, *34*(7):1033-1049; doi:10.1016/j.envint.2008.01.004.

Soares J, Coimbra AM, Reis-Henriques MA, Monteiro NM, Vieira MN, Oliveira JMA*, et al.* "Disruption of zebrafish (Danio rerio) embryonic development after full life-cycle parental exposure to low levels of ethinylestradiol." *Aquatic Toxicology* **2009**, *95*(4):330-338; doi:10.1016/j.aquatox.2009.07.021.

Sobsey MD, Stauber CE, Casanova LM, Brown JM, and Elliott MA. "Point of Use Household Drinking Water Filtration: A Practical, Effective Solution for Providing Sustained Access to Safe Drinking Water in the Developing World." *Environmental Science & Technology* **2008**, *42*(12):4261-4267; doi:10.1021/es702746n.

Socialstyrelsen. "Kasserade läkemedel - Förslag på åtgärder för att minska mängden överblivna läkemedel (Discarded drugs - Suggested measures for reducing the amount of leftover drugs)." Swedish National Board of Health and Welfare, 2004, 59 pp; http://www.socialstyrelsen.se/Publicerat/2004/8474/2004-103-12.htm.

Söderström H, Järhult JD, Olsen B, Lindberg RH, Tanaka H, and Fick J. "Detection of the Antiviral Drug Oseltamivir in Aquatic Environments." *PloS One* **2009**, *4*(6):e6064; doi:10.1371/journal.pone.0006064.

Söderström H, Lindberg RH, and Fick J. "Strategies for monitoring the emerging polar organic contaminants in water with emphasis on integrative passive sampling." *Journal of Chromatography A* **2009**, *1216*(3):623-630; doi:10.1016/j.chroma.2008.08.030.

Sodré F, Locatelli M, and Jardim W. "Occurrence of Emerging Contaminants in Brazilian Drinking Waters: A Sewage-To-Tap Issue." *Water, Air, & Soil Pollution* **2009**, *In press*; doi:10.1007/s11270-009-0086-9.

Søeborg T, Basse LH, and Halling-Sørensen B. "Risk assessment of topically applied products." *Toxicology* **2007**, *236*(1-2):140-148.

Søeborg T, Ingerslev F, and Halling-Sørensen B. "Chemical stability of chlortetracycline and chlortetracycline degradation products and epimers in soil interstitial water." *Chemosphere* **2004**, *57*(10):1515-1524; doi:10.1016/j.chemosphere.2004.09.020.

Sofer D, Gilboa-Garber N, Belz A, and Garber NC. "'Subinhibitory' erythromycin represses production of Pseudomonas aeruginosa lectins, autoinducer and virulence factors." *Chemotherapy* **1999**, *45*(5):335-341.

Soin T and Smagghe G. "Endocrine disruption in aquatic insects: a review." *Ecotoxicology* **2007**, *16*(1):83-93; doi:10.1007/s10646-006-0118-9.

Soldner A, Christians U, Susanto M, Wacher V, Silverman J, and Benet LZ. "Grapefruit juice activates P-glycoprotein-mediated drug transport." *Pharmaceutical Research* **1999**, *16*(4):478.

Solé M, Barceló D, and Porte C. "Seasonal variation of plasmatic and hepatic vitellogenin and EROD activity in carp, Cyprinus carpio, in relation to sewage treatment plants." *Aquatic Toxicology* **2002**, *60*(3-4):233-248; doi:10.1016/S0166-445X(02)00009-7.

Sole M, Castillo M, de Alda MJL, Porte C, and Barcelo D. "Estrogenicity determination in carp, Cyprinus carpio: a laboratory and field approach." *Analysis* **2000**, *28*(9):783-788.

Sole M, de Alda MJL, Castillo M, Porte C, Ladegaard-Pedersen K, and Barcelo D. "Estrogenicity determination in sewage treatment plants and surface waters from the Catalonian area (NE Spain)." *Environmental Science & Technology* **2000**, *34*(24):5076-5083; doi:10.1021/es991335n.

Sole M, Porte C, and Barcelo D. "Analysis of the estrogenic activity of sewage treatment works and receiving waters using vitellogenin induction in fish as a biomarker." *Trends in Analytical Chemistry* **2001**, *20*(9):518-525; doi:10.1016/S0165-9936(01)00055-3.

Solé M, Porte C, and Barceló D. "Vitellogenin Induction and Other Biochemical Responses in Carp, Cyprinus carpio, After Experimental Injection with 17α-Ethynylestradiol." *Archives of Environmental Contamination and Toxicology* **2000**, *38*(4):494-500; doi:10.1007/s002449910065.

Sole M, Raldua D, Barcelo D, and Porte C. "Long-term exposure effects in vitellogenin, sex hormones, and biotransformation enzymes in female carp in relation to a sewage treatment works." *Ecotoxicology and Environmental Safety* **2003**, *56*(3):373-380; doi:10.1016/S0147-6513(02)00143-4.

Sole M, Raldua D, Piferrer F, Barcelo D, and Porte C. "Feminization of wild carp, Cyprinus carpio, in a polluted environment: plasma steroid hormones, gonadal morphology and xenobiotic metabolizing system." *Comparative Biochemistry and Physiology, Part C:*

Toxicology & Pharmacology **2003**, *136*(2):145-156; doi:10.1016/S1532-0456(03)00192-3.

Solé M, Shaw J, Frickers P, Readman J, and Hutchinson T. "Effects on feeding rate and biomarker responses of marine mussels experimentally exposed to propranolol and acetaminophen." *Analytical and Bioanalytical Chemistry* **2009**, *In press*; doi:10.1007/s00216-009-3182-1.

Soliman MA. "Development and application of a GC/MS rapid screening method for selected endocrine disruptors, pharmaceuticals, antioxidants, and plasticizers." Doctoral Dissertation, University of California, Los Angeles, CA, 2003. 122 pp.

Soliman MA, Pedersen JA, Park H, Castaneda-Jimenez A, Stenstrom MK, and Suffet IH. "Human pharmaceuticals, antioxidants, and plasticizers in wastewater treatment plant and water reclamation plant effluents." *Water Environment Research* **2007**, *79*(2):156-167; doi:10.2175/106143006X111961.

Soliman MA, Pedersen JA, and Suffet IH. "Rapid gas chromatography-mass spectrometry screening method for human pharmaceuticals, hormones, antioxidants and plasticizers in water." *Journal of Chromatography A* **2004**, *1029*(1-2):223-237; doi:10.1016/j.chroma.2003.11.098.

Soller JA, Olivieri AW, Crook J, Cooper RC, Tchobanoglous G, Parkin RT*, et al.* "Risk-Based Approach To Evaluate the Public Health Benefit of Additional Wastewater Treatment." *Environmental Science & Technology* **2003**, *37*(9):1882-1891; doi:10.1021/es025774p.

Solomon KR, Lissemore L, Brain RA, Sibley PK, and Mabury SA. "Agricultural pharmaceuticals in the environment: Fate, effects, and risks." *Abstracts of Papers - American Chemical Society* **2006**, *231*(March 26).

Sommer C. "The role of musk and musk compounds in the fragrance industry." in *Synthetic Musk Fragrances in the Environment*, Rimkus GG, Ed., Springer-Verlag; Heidelberg, 2004, pp 1-16.

Sommer C and Bibby BM. "The influence of veterinary medicines on the decomposition of dung organic matter in soil." *European Journal of Soil Biology* **2002**, *38*(2):155-159; doi:10.1016/S1164-5563(02)01138-X.

Somoza GM, Yu KL, and Peter RE. "Serotonin stimulates gonadotropin release in female and male goldfish, Carassius auratus L." *General and Comparative Endocrinology* **1988**, *72*(3):374-382.

Son H-S, Ko G, and Zoh K-D. "Kinetics and mechanism of photolysis and TiO2 photocatalysis of triclosan." *Journal of Hazardous Materials* **2009**, *166*(2-3):954-960; doi:10.1016/j.jhazmat.2008.11.107.

Sone K, Hinago M, Kitayama A, Morokuma J, Ueno N, Watanabe H*, et al.* "Effects of 17β-estradiol, nonylphenol, and bisphenol-A on developing Xenopus laevis embryos." *General and Comparative Endocrinology* **2004**, *138*(3):228-236; doi:10.1016/j.ygcen.2004.06.011.

Song H-L, Nakano K, Taniguchi T, Nomura M, and Nishimura O. "Estrogen removal from treated municipal effluent in small-scale constructed wetland with different depth." *Bioresource Technology* **2009**, *100*(12):2945-2951; doi:10.1016/j.biortech.2009.01.045.

Song SJ, Song QJ, and Chen ZL. "Online phototransformation-flow injection chemiluminescence determination of triclosan." *Analytical and Bioanalytical Chemistry* **2007**, *387*(8):2917-2922; doi:10.1007/s00216-007-1130-5.

Song W, Cooper WJ, Mezyk SP, Greaves J, and Peake BM. "Free Radical Destruction of β-Blockers in Aqueous Solution." *Environmental Science & Technology* **2008**, *42*(4):1256-1261; doi:10.1021/jp803229a.

Song W, Cooper WJ, Peake BM, Mezyk SP, Nickelsen MG, and O'Shea KE. "Free-radical-induced oxidative and reductive degradation of N,N'-diethyl-m-toluamide (DEET): Kinetic studies and degradation pathway." *Water Research* **2009**, *43*(3):635-642; doi:10.1016/j.watres.2008.11.018.

Song W, Ravindran V, and Pirbazari M. "Process optimization using a kinetic model for the ultraviolet radiation-hydrogen peroxide decomposition of natural and synthetic organic compounds in groundwater." *Chemical Engineering Science* **2008**, *63*(12):3249-3270; doi:10.1016/j.ces.2008.03.024.

Song WL, Huang M, Rumbeiha W, and Li H. "Determination of amprolium, carbadox, monensin, and tylosin in surface water by liquid chromatography/tandem mass spectrometry." *Rapid Communications in Mass Spectrometry* **2007**, *21*(12):1944-1950; doi:10.1002/rcm.3042.

Song Z, Zhao T, Wang L, and Xiao Z. "Chemiluminescence Flow Sensor for Berberine with Immobilized Reagents." *Bioorganic &*

Medicinal Chemistry Letters **2001**, *9*(7):1701-1705; doi:10.1016/S0968-0896(01)00069-4.

Soni MG, Burdock GA, Taylor SL, and Greenberg NA. "Safety assessment of propyl paraben: a review of the published literature." *Food and Chemical Toxicology* **2001**, *39*(6):513-532; doi:10.1016/S0278-6915(00)00162-9.

Soni MG, Carabin IG, and Burdock GA. "Safety assessment of esters of ρ-hydroxybenzoic acid (parabens)." *Food and Chemical Toxicology* **2005**, *43*(7):985-1015; doi:10.1016/j.fct.2005.01.020.

Sonnenschein C and Soto AM. "An updated review of environmental estrogen and androgen mimics and antagonists." *Journal of Steroid Biochemistry and Molecular Biology* **1998**, *65*(1-6):143-150; doi:10.1016/S0960-0760(98)00027-2.

Sonnevend A, Rotimi VO, Kolodziejek J, Usmani A, Nowotny N, and Pal T. "High level of ciprofloxacin resistance and its molecular background among Campylobacter jejuni strains isolated in the United Arab Emirates." *Journal of Medical Microbiology* **2006**, *55*(11):1533-1538; doi:10.1099/jmm.0.46744-0.

Sorensen L, Stokes JA, Purdie DM, Woodward M, and Roberts MS. "Medication management at home: medication-related risk factors associated with poor health outcomes." *Age and Ageing* **2005**, *34*(6):626-632; doi:10.1093/ageing/afi202.

Sørensen LK and Elbaek TH. "Simultaneous determination of trimethoprim, sulfadiazine, florfenicol and oxolinic acid in surface water by liquid chromatography tandem mass spectrometry." *Chromatographia* **2004**, *60*(5-6):287-291; doi:10.1365/s10337-004-0383-9.

Sorensen LK and Hansen H. "Determination of sulfadiazine and trimethoprim in marine sediment by LC-APCI-MS." *Journal of Liquid Chromatography & Related Technologies* **2002**, *25*(7):1063 - 1075.

Sorensen PW, Pinillos M, and Scott AP. "Sexually mature male goldfish release large quantities of androstenedione into the water where it functions as a pheromone." *General and Comparative Endocrinology* **2005**, *140*(3):164-175; doi:10.1016/j.ygcen.2004.11.006.

Sörgel F. "High cocaine use in Europe and US proven Stunning data for European Countries: First ever comparative multi-country study of cocaine use by a new measurement technique." IBMP - Institute for Biomedical and Pharmaceutical Research, 22 November, 2006, 10 pp; http://www.sharedresponsibility.gov.co/en/download/drug_consumption/IMDB_Cocaine_River_Study_2006.pdf.

Soto AM, Calabro JM, Prechtl NV, Yau AY, Orlando EF, Daxenberger A*, et al.* "Androgenic and estrogenic activity in water bodies receiving cattle feedlot effluent in eastern Nebraska, USA." *Environmental Health Perspectives* **2004**, *112*(3):346-352.

Soto-Chinchilla JJ, García-Campaña AM, and Gámiz-Gracia L. "Analytical methods for multiresidue determination of sulfonamides and trimethoprim in meat and ground water samples by CE-MS and CE-MS/MS." *Electrophoresis* **2007**, *28*(22):4164-4172.

Soto-Chinchilla JJ, Garcia-Campana AM, Gamiz-Gracia L, and Cruces-Blanco C. "Application of capillary zone electrophoresis with large-volume sample stacking to the sensitive determination of sulfonamides in meat and ground water." *Electrophoresis* **2006**, *27*(20):4060-4068.

Soulet B, Tauxe A, and Tarradellas J. "Analysis of acidic drugs in Swiss wastewaters." *International Journal of Environmental Analytical Chemistry* **2002**, *82*(10):659-667.

Soungalo T, Soumana D, Moussa S, and Francois R. "Ivermectin in onchocerciasis control in the forest zone of Cote d'Ivoire." *Acta Tropica* **1997**, *68*(3):297-300; doi:10.1016/S0001-706X(97)00103-4.

Sousa A, Schönenberger R, Jonkers N, Suter M, Tanabe S, and Barroso C. "Chemical and Biological Characterization of Estrogenicity in Effluents from WWTPs in Ria de Aveiro (NW Portugal)." *Archives of Environmental Contamination and Toxicology* **2009**, *In press*; doi:10.1007/s00244-009-9324-9.

South JC. "Online resources for news about toxicology and other environmental topics." *Toxicology* **2001**, *157*(1-2):153-164; doi:10.1016/S0300-483X(00)00346-2.

Sovadinová I. "Nuclear receptor-mediated toxicity of xenobiotics." Doctoral Dissertation, Masaryk University, RECETOX - Research Centre for Environmental Chemistry and Ecotoxicology, Brno, Czech Republic, 2006. 136 pp.

Sovadinová I. "Nuclear receptor-mediated toxicity of xenobiotics [Toxicita xenobiotik zprostředkovaná přes jaderné receptory]." Masaryk University, RECETOX - Research Centre for Environmental Chemistry and Ecotoxicology, Brno, Czech Republic, 2006. 136 pp; http://is.muni.cz/th/12052/prif_d/Text_prace.pdf.

Sowers AD, Gaworecki KM, Mills MA, Roberts AP, and Klaine SJ. "Developmental Effects of a Municipal Wastewater Effluent on Two Generations of the Fathead Minnow, Pimephales promelas." *Aquatic Toxicology* **2009**, *95*(3):173-181; doi:10.1016/j.aquatox.2009.08.012.

Sowers AD, Mills MA, and Klaine SJ. "The Developmental Effects of a Municipal Wastewater Effluent on the Northern Leopard Frog, Rana pipiens." *Aquatic Toxicology* **2009**, *94*(2):145-152; doi:10.1016/j.aquatox.2009.06.013.

Spaepen KRI, Van Leemput LJJ, Wislocki PG, and Verschueren C. "A uniform procedure to estimate the predicted environmental concentration of the residues of veterinary medicines in soil." *Environmental Toxicology and Chemistry* **1997**, *16*(9):1977-1982; doi:10.1897/1551-5028(1997)016<1977:AUPTET>2.3.CO;2.

Spalt EW, Kissel JC, Shirai JH, and Bunge AL. "Dermal absorption of environmental contaminants from soil and sediment: a critical review." *Journal of Exposure Science and Environmental Epidemiology* **2009**, *19*:119-148; doi:10.1038/jes.2008.57.

Spartz JT and Shaw BR. "Wisconsin Hospice Professionals' Attitudes and Practices Related to Disposing of Pharmaceutical Waste." *Journal of Pharmacy Society of Wisconsin* **2009**, *July/August*.

Spataro V, Toda T, Craig R, Seeger M, Dubiel W, Harris AL*, et al.* "Resistance to diverse drugs and ultraviolet light conferred by overexpression of a novel human 26 S proteasome subunit." *Journal of Biological Chemistry* **1997**, *272*(48):30470-30475.

Specker JL and Chandlee MK. "Methodology for estradiol treatment in marine larval and juvenile fish: uptake and clearance in summer flounder." *Aquaculture* **2003**, *217*(1-4):663-672; doi:10.1016/S0044-8486(02)00424-6.

Spencer PS, Sterman AB, Horopian DS, and Foulds MM. "Neurotoxic fragrance produces ceroid and myelin disease." *Science* **1979**, *204*(4393):633-635; doi:10.1126/science.432669.

Spengler P, Korner W, and Metzger JW. "Substances with estrogenic activity in effluents of sewage treatment plants in southwestern Germany. 1. Chemical analysis." *Environmental Toxicology and Chemistry* **2001**, *20*(10):2133-2141; doi:10.1897/1551-5028(2001)020<2133:SWEAIE>2.0.CO;2.

Spiller HA and Griffith JRK. "Increasing burden of pill identification requests to US Poison Centers." *Clinical Toxicology* **2009**, *47*(3):253-255; doi:10.1080/15563650902754877.

Spivey S and Connor TH. "Determining sources of workplace contamination with antineoplastic drugs and comparing conventional IV drug preparation with a closed system." *Hospital Pharmacy* **2003**, *38*(2):135-139.

Spongberg AL and Witter JD. "Pharmaceutical compounds in the wastewater process stream in Northwest Ohio." *Science of the Total Environment* **2008**, *397*(1-3):148-157; doi:10.1016/j.scitotenv.2008.02.042.

Sponza DT and Demirden P. "Treatability of sulfamerazine in sequential upflow anaerobic sludge blanket reactor (UASB)/completely stirred tank reactor (CSTR) processes." *Separation and Purification Technology* **2007**, *56*(1):108-117; doi:10.1016/j.seppur.2006.07.013.

Spring AJ, Bagley DM, Andrews RC, Lemanik S, and Yang P. "Removal of endocrine disrupting compounds using a membrane bioreactor and disinfection." *Journal of Environmental Engineering and Science* **2007**, *6*(2):131-137; doi:10.1139/S06-049.

Springer TA, Guiney PD, Krueger HO, and Jaber MJ. "Assessment of an approach to estimating aquatic bioconcentration factors using reduced sampling." *Environmental Toxicology and Chemistry* **2008**, *27*(11):2271-2280; doi:10.1897/07-514.1.

Sprunger L, Blake-Taylor BH, Wairegi A, Acree Jr WE, and Abraham MH. "Characterization of the retention behavior of organic and pharmaceutical drug molecules on an immobilized artificial membrane column with the Abraham model." *Journal of Chromatography A* **2007**, *1160*(1-2):235-245; doi:10.1016/j.chroma.2007.05.051.

Squillace PJ, Scott JC, Moran MJ, Nolan BT, and Kolpin DW. "VOCs, pesticides, nitrate, and their mixtures in groundwater used for drinking water in the United States." *Environmental Science & Technology* **2002**, *36*(9):1923-1930; doi:10.1021/es015591n.

SRC "Chemfate database." Syracuse Research Corporation 2008; http://www.syrres.com/esc/chemfate.htm.

Sreekanth D, Sivaramakrishna D, Himabindu V, and Anjaneyulu Y. "Thermophilic treatment of bulk drug pharmaceutical industrial wastewaters by using hybrid up flow anaerobic sludge blanket reactor." *Bioresource Technology* **2009**, *100*(9):2534-2539; doi:10.1016/j.biortech.2008.11.028.

Srivastava P, Sanders SM, Dane JH, Feng Y, Basile J, and Barnett MO. "Fate and Transport of Sulfadimethoxine and Ormetoprim in Two Southeastern United States Soils." *Vadose Zone Journal* **2009**, *8*(1):32-41; doi:10.2136/vzj2007.0186.

Srivastava S, Sinha R, and Roy D. "Toxicological effects of malachite green." *Aquatic Toxicology* **2004**, *66*(3):319-329; doi:10.1016/j.aquatox.2003.09.008.

Sriviriyarat T and Randall CW. "Evaluation of integrated fixed film activated sludge wastewater treatment processes at high mean cells residence time and low temperatures." *Journal of Environmental Engineering* **2005**, *131*(11):1550-1556; doi:10.1061/(ASCE)0733-9372(2005)131:11(1550).

Sriwiriyarat T and Randall CW. "Performance of IFAS wastewater treatment processes for biological phosphorus removal." *Water Research* **2005**, *39*(16):3873-3884; doi:10.1016/j.watres.2005.07.025.

St. Pierre N, "Using chicken feed in the war on superbugs." *Business Week*, 14 February, 2000, 82 pp pp.

Stachel B, Ehrhorn U, Heemken O-P, Lepom P, Reincke H, Sawal G*, et al.* "Xenoestrogens in the River Elbe and its tributaries." *Environmental Pollution* **2003**, *124*(3):497-507; doi:10.1016/S0269-7491(02)00483-9.

Stackelberg PE, Furlong ET, Meyer MT, Zaugg SD, Henderson AK, and Reissman DB. "Persistence of pharmaceutical compounds and other organic wastewater contaminants in a conventional drinking-water-treatment plant." *Science of the Total Environment* **2004**, *329*(1-3):99-113; doi:10.1016/j.scitotenv.2004.03.015S0048-9697(04)00193-7.

Stackelberg PE, Furlong ET, Meyer MT, Zaugg SD, Henderson AK, and Reissman DB. "Response to Comment on "Persistence of pharmaceutical compounds and other organic wastewater contaminants in a conventional drinking-water-treatment plant"." *Science of the Total Environment* **2006**, *354*(1):93-97; doi:10.1016/j.scitotenv.2005.04.012.

Stackelberg PE, Gibs J, Furlong ET, Meyer MT, Zaugg SD, and Lippincott RL. "Efficiency of conventional drinking-water-treatment processes in removal of pharmaceuticals and other organic compounds." *Science of the Total Environment* **2007**, *377*(2-3):255-272; doi:10.1016/j.scitotenv.2007.01.095.

Staerk U and Kulpmann WR. "High-temperature solid-phase microextraction procedure for the detection of drugs by gas chromatography-mass spectrometry." *Journal of Chromatography B: Biomedical Sciences and Applications* **2000**, *745*(2):399-411; doi:10.1016/S0378-4347(00)00312-1.

Stafiej A, Pyrzynska K, and Regan F. "Determination of anti-inflammatory drugs and estrogens in water by HPLC with UV detection." *Journal of Separation Science* **2007**, *30*(7):985-991; doi:10.1002/jssc.200600433.

Stalcup AM, Sutton RMC, Painuly P, Rodrigo JV, Gratz SR, and Yanes EG. "Continuous free flow electrophoresis for preparative chiral separations of piperoxan using sulfated β-cyclodextrin." *Analyst* **2000**, *125*:1719-1724; doi:10.1039/b004347h.

Stales CA, Peterson DR, Parkerton TF, and Adams WJ. "The environmental fate of phthalate esters: A literature review." *Chemosphere* **1997**, *35*(4):667-749; doi:10.1016/S0045-6535(97)00195-1.

Staley BF, Xu F, Cowie SJ, Barlaz MA, and Hater GR. "Release of Trace Organic Compounds during the Decomposition of Municipal Solid Waste Components." *Environmental Science & Technology* **2006**, *40*(19):5984-5991; doi:10.1021/es060786m.

Stalter D, Magdeburg A, Weil M, Knacker T, and Oehlmann J. "Toxication or Detoxication? In-vivo toxicity assessment of ozonation as advanced wastewater treatment with the rainbow trout." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.07.025.

Stamatelatou K, Frouda C, Fountoulakis MS, Drillia P, Kornaros M, and Lyberatos G. "Pharmaceuticals and health care products in wastewater effluents: The example of carbamazepine." *Water Science and Technology* **2003**, *3*(4):131-137.

Stamm C, Alder AC, Fenner K, Hollender J, Krauss M, McArdell CS*, et al.* "Spatial and Temporal Patterns of Pharmaceuticals in the Aquatic Environment: A Review." *Geography Compass* **2008**, *2*(3):920-955; doi:10.1111/j.1749-8198.2008.00104.x.

Stan HJ and Heberer T. "Pharmaceuticals in the aquatic environment." *Analysis* **1997**, *25*(7):20-23.

Stan HJ, Heberer T, and Linkerhägner M. "[Occurrence of clofibric acid in the aquatic system - Is the use in human medical care the source of the contamination of surface, ground and drinking water?] Vorkommen von clofibrinsaure im aquatischen system - fuhrt die therapeutische anwendeung zu einer belastung von oberflachen-, grund- und trinkwasser?" *Vom Wasser* **1994**, *83*:57-68.

Standley LF, Kaplan LA, and Smith DL. "Molecular tracers of organic matter sources to surface water resources." *Environmental Science & Technology* **2003**, *37*(4):3124-3130; doi:10.1021/es991381n.

Standley LJ, Rudel RA, Swartz CH, Attfield KR, Christian J, Erickson M*, et al.* "Wastewater-Contaminated Groundwater as a Source of Endogenous Hormones and Pharmaceuticals to Surface Water Ecosystems." *Environmental Toxicology and Chemistry* **2008**, *27*(12):2457-2468; doi:10.1897/07-604.1.

Stanko JP and Angus RA. "In vivo assessment of the capacity of androstenedione to masculinize female mosquitofish (gambusia affinis) exposed through dietary and static renewal methods." *Environmental Toxicology and Chemistry* **2007**, *26*(5):920-926; doi:10.1897/06-201R.1.

Stanley JK. "Considering enantiospecific effects of chiral pharmaceuticals contaminants to model aquatic organisms: effects on behavioral, physiological, and traditional toxicity testing endpoints." Baylor University, Houston, TX, 2007. 119 pp.

Stanley JK and Brooks BW. "Perspectives on Ecological Risk Assessment of Chiral Compounds." *Integrated Environmental Assessment and Management* **2009**, *5*(3):364-373; doi:10.1897/IEAM_2008-076.1.

Stanley JK and Brooks BW. "Perspectives on Ecological Risk Assessment of Chiral Compounds." *Integrated Environmental Assessment and Management* **2009**, *5*(3):364-373; doi:10.1897/IEAM_2008-076.1.

Stanley JK, Ramirez AJ, Chambliss CK, and Brooks BW. "Enantiospecific sublethal effects of the antidepressant fluoxetine to a model aquatic vertebrate and invertebrate." *Chemosphere* **2007**, *69*(1):9-16.

Stanley JK, Ramirez AJ, Mottaleb M, Chambliss CK, and Brooks BW. "Enantiospecific toxicity of the β-blocker propranolol to Daphnia magna and Pimephales promelas." *Environmental Toxicology and Chemistry* **2006**, *25*(7):1780-1786.

Stapleton DR, Emery RJ, Smith C, Pochet C, Fernandez-Dominguez A, and Papadaki M. "Degradation of 2-chloropyridine in water by ultraviolet and ultrasound irradiation." *International Journal of Environment and Pollution* **2006**, *28*(1-2):87-99; doi:10.1504/IJEP.2006.010877.

START. "Management Strategies for Pharmaceuticals in Drinking Water." in 1st International conference on sustainable pharmacy: Strategies and perspectives in development, use and emission management of pharmaceuticals, Strategien zum Umgang mit Arzneimittelwirkstoffen im Trinkwasser (START), 2008, http://www.start-project.de/english.htm.

START. "Management strategies for pharmaceutical residues in drinking water - Pharmaceuticals for Human Use: Options of Action for Reducing the Contamination of Water Bodies, A Practical Guide." Institute for Social-Ecological Research (ISOE) GmbH, Keil F, Ed., Frankfurt/Main, Germany, August, 2008, 51 pp; http://www.start-project.de/downloads/start_Practical_Guide.pdf.

START. "Systemische Risiken in Versorgungssystemen." Strategien zum Umgang mit Arzneimittelwirkstoffen im Trinkwasser (START), Frankfurt am Main, Germany, August, 2008, 191 pp; http://www.geo.uni-frankfurt.de/ipg/ag/dl/f_forschung/start_Abschlussbericht_2008.pdf.

Stasinakis A, Mainais D, Thornaidis N, Danika E, Gatidou G, and Lekkas T. "Inhibitory effect of triclosan and nonylphenol on respiration rates and ammonia removal in activated sludge systems." *Ecotoxicology and Environmental Safety* **2008**, *70*(2):199-206; doi:10.1016/j.ecoenv.2007.12.011.

Stasinakis AS, Petalas AV, Mamais D, Thomaidis NS, Gatidou G, and Lekkas TD. "Investigation of triclosan fate and toxicity in continuous-flow activated sludge systems." *Chemosphere* **2007**, *68*(2):375-381; doi:10.1016/j.chemosphere.2007.01.047.

State of Maine. 2005, "An Act To Encourage the Proper Disposal of Unused Pharmaceuticals." Office of the Revisor of Statutes, Public Laws of Maine: Second Speical Session of the 121st; http://janus.state.me.us/legis/ros/lom/LOM121st/15Pub651-700/Pub651-700-126.htm.

State of New York. 2008, "Water Assessment and Treatment Evaluation Research Study Act of 2008 (WATER Study Act of 2008)." 5 pp; http://thomas.loc.gov/home/gpoxmlc110/h6820_ih.xml.

State of Utah. "Proper Medication Disposal: Information About the Proper Disposal of Prescription and Over-the-Counter Medications." http://www.medicationdisposal.utah.gov/faq.htm.

State of Washington. 2009, "Providing for the safe collection and disposal of unwanted drugs from residential sources through a producer provided and funded product stewardship program." 13 pp; http://apps.leg.wa.gov/billinfo/summary.aspx?bill=5279&year=2009.

State of Wisconsin. "Return or exchange of health items." State of Wisconsin, Pharmacy Examining Board, Ed., 2008, 12-13 pp; http://www.legis.state.wi.us/rsb/code/phar/phar007.pdf; http://dhs.wisconsin.gov/rl_dsl/Publications/07-008.htm.

Stavrakakis C, Colin R, Hequet V, Faur C, and Le Cloirec P. "Analysis of endocrine disrupting compounds in wastewater and drinking water treatment plants at the nanogram per litre level." *Environmental Technology* **2008**, *29*(3):279-286; doi:10.1080/09593330802099452.

Stavrakakis C, Hequet V, Faur C, Andres Y, Le Cloirec P, and Colin R. "Biodegradation of endocrine disrupters: Case of 17β-estradiol and bisphenol A." *Environmental Technology* **2008**, *29*(3):269-277; doi:10.1080/09593330802099304.

Stavrovskaya AA. "Cellular mechanisms of multidrug resistance of tumor cells." *Biochemistry (Moscow)* **2000**, *65*(1):95-106.

Stebbing AR. "Hormesis--the stimulation of growth by low levels of inhibitors." *Science of the Total Environment* **1982**, *22*(3):213-234.

Stebbing AR. "Hormesis: interpreting the β-curve using control theory." *Journal of Applied Toxicology* **2000**, *20*(2):93-101; doi:10.1002/(SICI)1099-1263(200003/04)20:2<93::AID-JAT640>3.0.CO;2-7.

Stefano GB, Salzet B, and Salzet M. "Identification and characterization of the leech CNS cannabinoid receptor: coupling to nitric oxide release." *Brain Research* **1997**, *753*(2):219-224; doi:10.1016/S0006-8993(96)01484-9.

Steffenak I, Hormazabal V, and Yndestad M. "Reservoir of quinolone residues in fish." *Food Additives and Contaminants* **1991**, *8*(6):777-780.

Steffenak I, Hormazabal V, and Yndestad M. "Effect of cooking on residues of the quinolones oxolinic acid and flumequine in fish." *Acta Veterinaria Scandinavica* **1994**, *35*(3):299-301.

Steger-Hartmann T, Kümmerer K, and Hartmann A. "Biological Degradation of Cyclophosphamide and Its Occurrence in Sewage Water." *Ecotoxicology and Environmental Safety* **1997**, *36*(2):174-179; doi:10.1006/eesa.1996.1506.

Steger-Hartmann T, Kümmerer K, and Schecker J. "Trace analysis of the antineoplastics ifosfamide and cyclophosphamide in sewage water by twostep solid-phase extraction and gas chromatography-mass spectrometry." *Journal of Chromatography A* **1996**, *726*(1-2):179-184; doi:10.1016/0021-9673(95)01063-7.

Steger-Hartmann T, Lange R, and Schweinfurth H. "Environmental Risk Assessment for the Widely Used Iodinated X-Ray Contrast Agent Iopromide (Ultravist)." *Ecotoxicology and Environmental Safety* **1999**, *42*(3):274-281; doi:10.1006/eesa.1998.1759.

Steger-Hartmann T, Lange R, and Schweinfurth H. "Iodinated x-ray contrast media in the aquatic environment: fate and effects." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 13, pp 230-243; doi:10.1021/bk-2001-0791.ch013; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Steger-Hartmann T, Länge R, and Schweinfurth H. "Umweltverhalten und ökotoxikologische Berwertung von iodhaltigen Röntgenkontrastmitteln. Environmental behavior and ecotoxicological assessment." *Vom Wasser* **1998**, *91*:185-194.

Steger-Hartmann T, Lange R, Schweinfurth H, Tschampel M, and Rehmann I. "Investigations into the environmental fate and effects of iopromide (ultravist), a widely used iodinated X-ray contrast medium." *Water Research* **2002**, *36*(1):266-274; doi:10.1016/S0043-1354(01)00241-X.

Stehly GR, Barron MG, and Hayton WL. "Pharmacokinetic modeling in aquatic animals: Bioconcentration and bioavailability." presented at Xenobiot. Fish, (Proc. Am. Chem. Soc. Symp. Xenobiot. Metab. Fish), Biological Resources Division, Upper Midwest Environmental Sciences Center, U.S. Geological Survey, Kluwer Academic/Plenum Publishers, New York, N.Y., at La Crosse, WI, 1998.

Stehly GR, Barron MG, and Hayton WL. "Pharmacokinetic modeling in aquatic animals: Bioconcentration and bioavailability." in *Xenobiotics in Fish*, Smith DJ, Gingerich WH and Beconi-Barker MG, Eds., Kluwer Academic/Plenum Publishers; New York, 1999, Chapter 6, pp 73-86; http://bookshop.blackwell.co.uk/jsp/id/Xenobiotics_in_Fish/9780306461897#synopsis.

Stehly GR, Meinertz JR, and Gingerich WH. "Comparative Pharmacokinetics of Sarafloxacin in Rainbow Trout and Channel Catfish." in *Xenobiotics in Fish*, Smith DJ, Gingerich WH and Beconi-Barker MG, Eds., Kluwer Academic/Plenum Publishers; New York, 1999, Chapter 9, pp 123-132; http://bookshop.blackwell.co.uk/jsp/id/Xenobiotics_in_Fish/9780306461897#synopsis.

Steil M. 2008, "USDA study confirms link between ethanol by-product and E. coli." Minnesota Public Radio, http://minnesota.publicradio.org/display/web/2008/10/17/e_coli/.

Steil M. 2008, "Researchers link E. coli, ethanol by-product." Minnesota Public Radio, http://minnesota.publicradio.org/display/web/2008/06/06/distillers_2008/.

Steil M. 2009, "Antibiotics pose concern for ethanol producers." Minnesota Public Radio, http://minnesota.publicradio.org/display/web/2009/03/24/distillersantibiotics/.

Stein K, Ramil M, Fink G, Sander M, and Ternes TA. "Analysis and Sorption of Psychoactive Drugs onto Sediment." *Environmental Science & Technology* **2008**, *42*(17):6415-6423; doi:10.1021/es702959a.

Steinberg P, Fischer T, Arand M, Park E, Elmadfa I, Rimkus G*, et al.* "Acute hepatotoxicity of the polycyclic musk 7-acetyl-1,1,3,4,4,6-hexamethyl-1,2,3,4-tetrahydronaphthaline (AHTN)." *Toxicology Letters* **1999**, *111*(1-2):151-160; doi:10.1016/S0378-4274(99)00176-9.

Steinbrook R. "For Sale: Physicians' Prescribing Data." *New England Journal of Medicine* **2006**, *354*(26):2745-2747; doi:10.1056/NEJMp068125.

Steinemann A. "Human exposure, health hazards, and environmental regulations." *Environmental Impact Assessment Review* **2004**, *24*(7-8):695-710; doi:10.1016/j.eiar.2004.06.002.

Steinemann A and Tickner J. "Environment and health: new answers, new questions." *Environmental Impact Assessment Review* **2004**, *24*(7-8):661-665; doi:10.1016/j.eiar.2004.06.001.

Steinemann AC. "Fragranced consumer products and undisclosed ingredients." *Environmental Impact Assessment Review* **2009**, *29*(1):32-38; doi:10.1016/j.eiar.2008.05.002.

Steinle-Darling E. "Rejection of trace organics---nitrosamines, perfluorochemicals, and others---via reverse osmosis and nanofiltration." Doctoral Dissertation, Department of Civil and Environmental Engineering, Palo Alto, CA, 2008. http://gradworks.umi.com/33/13/3313669.html.

Stelzer W, Ziegert E, and Schneider E. "The occurrence of antibiotic-resistant klebsiellae in wastewater." *Zentralblatt fur Mikrobiologie* **1985**, *140*:283-291.

Stepanauskas R, Glenn TC, Jagoe CH, Tuckfield RC, Lindell AH, King CJ*, et al.* "Coselection for microbial resistance to metals and antibiotics in freshwater microcosms." *Environmental Microbiology* **2006**, *8*(9):1510-1514; doi:10.1111/j.1462-2920.2006.01091.x.

Stepanauskas R, Glenn TC, Jagoe CH, Tuckfield RC, Lindell AH, King CJ*, et al.* "Coselection for microbial resistance to metals and antibiotics in freshwater microcosms." *Environmental Microbiology* **2006**, *8*(9):1510-1514; doi:10.1111/j.1462-2920.2006.01091.x.

Stephenson R and Oppenheimer J. "Fate of Pharmaceuticals and Personal Care Products through Wastewater Treatment Processes." Water Environment Research Foundation (WERF), 03-CTS-22UR, 2007, 112 pp; http://www.werf.org/AM/Template.cfm?Section=Research_Profile&Template=/CustomSource/Research/PublicationProfile.cfm&id=03-CTS-22UR.

Stevens JL, Northcott GL, Stern GA, Tomy GT, and Jones KC. "PAHs, PCBs, PCNs, organochlorine pesticides, synthetic musks, and polychlorinated n-alkanes in U.K. sewage sludge: Survey results and implications." *Environmental Science & Technology* **2003**, *37*(3):462-467; doi:10.1021/es020161y.

Stevens KJ, Kim S-Y, Adhikari S, Vadapalli V, and Venables BJ. "Effects of triclosan on seed germination and seedling development of three wetland plants: sesbania herbacea, eclipta prostrata, and bidens frondosa." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2598-2609; doi:10.1897/08-566.1.

Stevens R. "EPA Biosolids Regulatory Update." Office of Water, Las Vegas, NV, 8 July 2008.

Stevenson C and Davies RJH. "Photosensitization of guanine-specific DNA damage by 2-phenylbenzimidazole and the sunscreen agent 2-phenylbenzimidazole-5-sulfonic acid." *Chemical Research in Toxicology* **1999**, *12*(1):38; doi:10.1021/tx980158l.

Stevenson CN, MacManus-Spencer LA, Luchenbach T, Luthy RG, and Epel D. "New perspectives on perfluorochemical ecotoxicology: inhibition and induction of an efflux transporter in marine mussel, Mytilus californianus." *Environmental Science &*

Technology **2006**, *40*(17):5580-5585; doi:10.1021/es0602593.

Stewart AB, Spicer AV, Inskeep EK, and Dailey RA. "Steroid hormone enrichment of Artemia nauplii." *Aquaculture* **2001**, *202*(1-2):177-181.

Stewart KR and Koditschek L. "Drug-Resistance Transfer in Escherichia coli in New York Bight Sediment." *Marine Pollution Bulletin* **1980**, *11*:130-133.

Stien J. "Festphasenmikroextraktion (SPME) - Eine Alternative zu klassischen Extraktionstechniken [Fixed phase micro extraction (SPME) - An alternative to classical extraction techniques]." Doctoral Dissertation, Pinneberg, Germany, 2001. 304 pp; http://deposit.d-nb.de/cgi-bin/dokserv?idn=961251204.

Stierlin H and Faigle JW. "Biotransformation of diclofenac sodium (Voltaren) in animals and in man. II. Quantitative determination of the unchanged drug and principal phenolic metabolites, in urine and bile." *Xenobiotica* **1979**, *9*(10):611-621.

Stine OC, Johnson JA, Keefer-Norris A, Perry KL, Tigno J, Qaiyumi S*, et al.* "Widespread distribution of tetracycline resistance genes in a confined animal feeding facility." *International Journal of Antimicrobial Agents* **2007**, *29*(3):348-352; doi:10.1016/j.ijantimicag.2006.11.015.

Stinson S. "Chiral drug interactions." *Chemical & Engineering News* **1999**, *77*(41):101-120.

Stinson S. "Chiral drugs." *Chemical & Engineering News* **2000**, *78*(43):55-78.

Stinson SC. "Chiral pharmaceuticals: Drug firms continue to develop chiral drugs as single enantiomers, to carry out racemic switches, and to use chirality to manage drug life cycles." *Chemical & Engineering News* **2001**, *79*(40):79-97.

Stitzhal D, Chapman A, Grasso C, Perry W, Dale E, Mele S*, et al.* "2008 Pharmaceuticals Subcommittee Issue Paper." April, 2008, http://www.productstewardship.net/PDFs/2008-PHARM-Issue.pdf.

Stockholm City Council. "Environmentally Classified Pharmaceuticals." Stockholm City Council, Stockholm, Sweden, January, 2008, 32 pp; http://www.janusinfo.se/imcms/servlet/GetDoc?meta_id=10205; via www.janusinfo.se/environment.

Stockholm City Council "Environmentally classified pharmaceuticals: Database." 2008; http://www.janusinfo.se/imcms/servlet/GetDoc?meta_id=7238.

Stoeckel JA, González M, Oris JT, Kovach MJ, and Mace KM. "Atrazine and increased male production by daphnia: the importance of combining field and laboratory approaches." *Environmental Toxicology and Chemistry* **2008**, *27*(11):2352-2360; doi:10.1897/07-564.1.

Stoffregen DA, Wooster GA, Bustos PS, Browser PR, and Babish JG. "Multiple route and dose pharmacokinetics of enrofloxacin in juvenile Atlantic salmon." *Journal of Veterinary Pharmacology and Therapeutics* **1997**, *20*(2):111-123; doi:10.1046/j.1365-2885.1997.81531.x.

Stoika R, Yakymovych M, Souchelnytskyi S, and Yakymovych I. "Potential role of transforming growth factor β1 in drug resistance of tumor cells." *Acta Biochimica Polonica* **2003**, *50*(2):497-508.

Stoker C, Beldomenico PM, Bosquiazzo VL, Zayas MA, Rey F, Rodriguez H*, et al.* "Developmental exposure to endocrine disruptor chemicals alters follicular dynamics and steroid levels in Caiman latirostris." *General and Comparative Endocrinology* **2008**, *156*(3):603-612; doi:10.1016/j.ygcen.2008.02.011.

Stolker AAM. "Identification of Residues by LC/MS/MS According to the New European Union Guidelines: Application to the Trace Analysis of Veterinary Drugs and Contaminants in Biological and Environmental Matrices." in *ACS Symposium #850: Liquid Chromatography/Mass Spectrometry, MS/MS and Time of Flight MS: Analysis of Emerging Contaminants*, Almagor UM, Ed., American Chemical Society; 2003, Chapter 3, pp; http://www.powells.com/biblio?isbn=9780841238251.

Stolker AAM and Brinkman UAT. "Analytical strategies for residue analysis of veterinary drugs and growth-promoting agents in food-producing animals--a review." *Journal of Chromatography A* **2005**, *1067*(1-2):15-53; doi:10.1016/j.chroma.2005.02.037.

Stolker AAM, Niesing W, Hogendoorn EA, Versteegh JFM, Fuchs R, and Brinkman UAT. "Liquid chromatography with triple-quadrupole or quadrupole-time of flight mass spectrometry for screening and confirmation of residues of pharmaceuticals in water." *Analytical and Bioanalytical Chemistry* **2004**, *378*(4):955-963; doi:10.1007/s00216-003-2253-y.

Stone JJ, Clay SA, Zhu Z, Wong KL, Porath LR, and Spellman GM. "Effect of Antimicrobial Compounds Tylosin and Chlortetracycline during Batch Anaerobic Swine Manure Digestion." *Water Research* **2009**, *43*(18):4740-4750; doi:10.1016/j.watres.2009.08.005.

Stone R. "Stalin's Forgotten Cure." *Science* **2002**, *298*(5594):728-731; doi:10.1126/science.298.5594.728.

Stoner S, Kosinski K, and DEC Pharmaceuticals Work Group. "Pharmaceuticals as emerging contaminants [electronic resource]: A rationale for reduction in New York State's waters." Department of Environmental Conservation, Pharmaceuticals Work Group, ENV 290.5-4 PHAEC 208-8710 xe, Albany, NY, 2008, 9 pp; http://www.nysl.nysed.gov/edocs/education/check/checklist/jan09.rtf.

Stoob K. "Veterinary sulfonamide antibiotics in the environment: Fate in grassland soils and transport to surface waters." Doctoral Dissertation, Swiss Federal Institute of Technology, Zurich, Switzerland, 2005. 112 pp; http://e-collection.ethbib.ethz.ch/view/eth:28821.

Stoob K, Singer HP, Goetz CW, Ruff M, and Mueller SR. "Fully automated online solid phase extraction coupled directly to liquid chromatography-tandem mass spectrometry: Quantification of sulfonamide antibiotics, neutral and acidic pesticides at low concentrations in surface waters." *Journal of Chromatography A* **2005**, *1097*(1-2):138-147; doi:10.1016/j.chroma.2005.08.030.

Stoob K, Singer HP, Mueller SR, Schwarzenbach RP, and Stamm CH. "Dissipation and Transport of Veterinary Sulfonamide Antibiotics after Manure Application to Grassland in a Small Catchment." *Environmental Science & Technology* **2007**, *41*(21):7349-7355; doi:10.1021/es070840e.

Stoob K, Singer HP, Stettler S, Hartmann N, Mueller SR, and Stamm CH. "Exhaustive extraction of sulfonamide antibiotics from aged agricultural soils using pressurized liquid extraction." *Journal of Chromatography A* **2006**, *1128*(1-2):1-9; doi:10.1016/j.chroma.2006.06.048.

Storey S. "Challenges with the development and approval of pharmaceuticals for fish." *The AAPS Journal* **2005**, *7*(2):E335-343.

Storrs SI and Semlitsch RD. "Variation in somatic and ovarian development: Predicting susceptibility of amphibians to estrogenic contaminants." *General and Comparative Endocrinology* **2008**, *156*(3):524-530; doi:10.1016/j.ygcen.2008.03.001.

Storteboom HN, Kim S-C, Doesken KC, Carlson KH, Davis JG, and Pruden A. "Response of Antibiotics and Resistance Genes to High-Intensity and Low-Intensity Manure Management." *Journal of Environmental Quality* **2007**, *36*(6):1695-1703; doi:10.2134/jeq2007.0006.

Stoughton M and Votta T. "Implementing service-based chemical procurement: lessons and results." *Journal of Cleaner Production* **2003**, *11*(8):839-849; doi:10.1016/S0959-6526(02)00159-2.

STOWA. "Review oestrogenen en geneesmiddelen in het milieu: Stand van zaken en kennislacunes [Review and estrogenmedicines in the environment: State and knowledge gaps]." Stichting Toegepast Onderzoek Waterbeheer, Utrecht, Netherlands, 2003, 87 pp; http://www.stowa.nl/uploads/publicaties/mID_4787_cID_3774_STOWA%202003%2009.pdf.

Strachan JL and Campbell W. "Pharmaceutical production: experiences in the disposal of waste water." *Prog Wat Technol* **1976**, *8*(2-3):1-7.

Stranahan SQ, "Drugs in our drinking water: What do we do with unused medicines?" *AARP Bulletin Today*, 27 February, 2009, http://bulletin.aarp.org/yourhealth/policy/articles/drugs_in_our_drinking_water_.html, http://www.safemeddispoal.com/documents/AARPFeb2709.pdf.

Strandberg L, Johansson M, and Palmquist H. "The flow of chemicals within the sewage systems - possibilities and limitations for risk assessment of chemicals." August, 2001, 42 pp.

Stratchounski LS, Andreeva IV, Ratchina SA, Galkin DV, Petrotchenkova NA, Demin AA*, et al.* "The Inventory of Antibiotics in Russian Home Medicine Cabinets." *Clinical Infectious Diseases* **2003**, *37*(4):498-505; doi:10.1086/376905.

Straub JO. "Concentrations of the UV filter ethylhexyl methoxycinnamate in the aquatic compartment: a comparison of modelled concentrations for Swiss surface waters with empirical monitoring data." *Toxicology Letters* **2002**, *131*(1-2):29-37; doi:10.1016/S0378-4274(02)00042-5.

Straub JO. "Environmental risk assessment for new human pharmaceuticals in the European Union according to the draft guideline/discussion paper of January 2001." *Toxicology Letters* **2002**, *131*(1):137-143; doi:10.1016/S0378-4274(02)00210-2.

Straub JO. "Erratum to "Environmental risk assessment for new human pharmaceuticals in the European Union according to the draft guideline/discussion paper of January 2001" [Toxicol. Lett. 131(1-2) (2002) 137-143]." *Toxicology Letters* **2002**, *135*(3):229-229; doi:10.1016/S0378-4274(02)00209-6.

Straub JO. "Concentrations of the Uv Filter Ethylhexyl Methoxycinnamate in the Aquatic Compartment: A Comparison of Modeled Concentrations for Swiss Surface Waters with Empirical Monitoring Data." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp 51-62; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Straub JO. "Environmental Risk Assessment for New Human Pharmaceuticals in the European Union According to the 2003 Draft Guideline." *Hot Spot Pollutants: Pharmaceuticals in the Environment* **2004**:299-317.

Straub JO. "Deterministic and Probabilistic Environmental Risk Assessment for Diazepam." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 22, pp 343-383; doi:10.1007/978-3-540-74664-5_22; http://www.springerlink.com/content/r573826833631506/?p=9ed3dcab782d422fa25c2de402461f54&pi=21.

Straub JO. "An environmental risk assessment for oseltamivir (Tamiflu®) for sewage works and surface waters under seasonal-influenza- and pandemic-use conditions." *Ecotoxicology and Environmental Safety* **2009**, *72*(6):1625-1634; doi:10.1016/j.ecoenv.2008.09.011.

Straub JO and Stewart KM. "Deterministic and probabilistic acute-based environmental risk assessment for naproxen for Western Europe." *Environmental Toxicology and Chemistry* **2007**, *26*(4):795-806; doi:10.1897/06-212R.1.

Strauch G, Möder M, Wennrich R, Osenbrück K, Gläser H-R, Schladitz T*, et al.* "Indicators for assessing anthropogenic impact on urban surface and groundwater." *Journal of Soils and Sediments* **2008**, *8*(1):23-33; doi:10.1065/jss2007.06.234.

Streck G. "Chemical and biological analysis of estrogenic, progestagenic and androgenic steroids in the environment." *TRAC Trends in Analytical Chemistry* **2009**, *28*(6):635-652; doi:10.1016/j.trac.2009.03.006.

Street RA, Stirk WA, and Van Staden J. "South African traditional medicinal plant trade - challenges in regulating quality, safety and efficacy." *Journal of Ethnopharmacology* **2008**, *119*(3):705-710; doi:10.1016/j.jep.2008.06.019.

Strege MA. "Total Residue Analysis of Swabs by Ion Mobility Spectrometry." *Analytical Chemistry* **2009**, *81*(11):4576-4580; doi:10.1021/ac900441k.

Strenn B, Clara M, Gans O, and Kreuzinger N. "The comportment of selected pharmaceuticals in sewage treatment plants." in *Water Pollution VII, Modelling, Measuring and Prediction*, Brebbia CA, Almorza D and Sales D, Eds., WIT Press; Southampton, UK, 2003, pp 273-282; doi:10.2495/WP030261; http://library.witpress.com/pages/PaperInfo.asp?PaperID=1784.

Strenn B, Clara M, Gans O, and Kreuzinger N. "Carbamazepine, diclofenac, ibuprofen and bezafibrate - investigations on the behaviour of selected pharmaceuticals during wastewater treatment." *Water Science and Technology* **2004**, *50*(5):269-276.

Strock TJ, Sassman SA, and Lee LS. "Sorption and related properties of the swine antibiotic carbadox and associated N-oxide reduced metabolites." *Environmental Science & Technology* **2005**, *39*(9):3134-3142; doi:10.1021/es048623q.

Strompen S, Werres F, Balsaa P, and Overath H. "Analytics of polar pharmaceutical residues in urine samples including the development of necessary adequate procedures via GC-MS/MS [Analytik polarer Arzneimittelrückstände in Urinproben einschließlich der Entwicklung der hierzu notwendigen adäquaten Verfahren mittels GC-MS/MS]." Wupperverband, Remscheid, Germany, 2003, 32-53 pp; http://www.wupperverband.de/internet/wupperverbandwys.nsf/files/lambertsm-tagungsband_klein.pdf/%24FILE/lambertsm-tagungsband_klein.pdf.

Strong L. "Overview: the impact of avermectins on pastureland ecology." *Veterinary Parasitology* **1993**, *48*(1-4):3-17; doi:10.1016/0304-4017(93)90140-I.

Strong L and James S. "Some effects of rearing the yellow dung fly Scatophaga stercoraria in cattle dung containing invermectin." *Entomologia Experimentalis et Applicata* **1992**, *63*(1):39-45; doi:10.1007/BF00350344.

Strong L and James S. "Some effects of ivermectin on the yellow dung fly, Scatophaga stercoraria." *Veterinary Parasitology* **1993**, *48*(1-4):181-191.

Strong L, Wall R, Woolford A, and Djeddour D. "The effect of faecally excreted ivermectin and fenbendazole on the insect colonisation of cattle dung following the oral administration of sustained-release boluses." *Veterinary Parasitology* **1996**, *62*(3-4):253-266; doi:10.1016/0304-4017(95)00890-X.

Stuard SB, Caudill D, and Lehman-Mckeeman LD. "Characterization of the Effects of Musk Ketone on Mouse Hepatic Cytochrome P450 Enzymes." *Fundamental and Applied Toxicology* **1997**, *40*(2):264-271; doi:10.1006/faat.1997.2395.

Stubbings G, Tarbin J, Cooper A, Sharman M, Bigwood T, and Robb P. "A multi-residue cation-exchange clean up procedure for basic drugs in produce of animal origin." *Analytica Chimica Acta* **2005**, *547*(2):262-268; doi:10.1016/j.aca.2005.05.001.

Stubbs J, Haw C, and Dickens G. "Dose form modification - a common but potentially hazardous practice. A literature review and study of medication administration to older psychiatric inpatients." *International Psychogeriatrics* **2008**, *20*(3):616-627; doi:10.1017/S1041610207006047.

Stuer-Lauridsen F, Birkved M, Hansen LP, Holten Lützhøft HC, and Halling-Sørensen B. "Environmental risk assessment of human pharmaceuticals in Denmark after normal therapeutic use." *Chemosphere* **2000**, *40*(7):783-793; doi:10.1016/S0045-6535(99)00453-1.

Stuffer B. "Pharmaceuticals in Your Drinking Water? What You Should Know." **2009**, 3 pp; http://www.awwa.org/bookstore/productDetail.cfm?ItemNumber=43419.

Stulten D, Lamshoft M, Zuhlke S, and Spiteller M. "Isolation and characterization of a new human urinary metabolite of diclofenac applying LC-NMR-MS and high-resolution mass analyses." *Journal of Pharmaceutical and Biomedical Analysis* **2008**, *47*(2):371-376; doi:10.1016/j.jpba.2008.01.024.

Stülten D, Zühlke S, Lamshöft M, and Spiteller M. "Occurrence of diclofenac and selected metabolites in sewage effluents." *Science of the Total Environment* **2008**, *405*(1-3):310-316; doi:10.1016/j.scitotenv.2008.05.036.

Stumm-Zollinger E and Fair GM. "Biodegradation of steroid hormones." *Journal - Water Pollution Control Federation* **1965**, *37*(11):1506-1510.

Stumpe B and Marschner B. "Long-term sewage sludge application and wastewater irrigation on the mineralization and sorption of 17β-estradiol and testosterone in soils." *Science of the Total Environment* **2007**, *374*(2-3):282-291; doi:10.1016/j.scitotenv.2006.12.025.

Stumpe B and Marschner B. "Dissolved organic carbon from sewage sludge and manure can affect estrogen sorption and mineralization in soils." *Environmental Pollution* **2010**, *158*(1):148-154; doi:10.1016/j.envpol.2009.07.027.

Stumpf M, Ternes TA, Haberer K, and Baumann W. "Determination of natural and synthetic estrogens in sewage plants and river water." *Vom Wasser* **1996**, *87*:251-261.

Stumpf M, Ternes TA, Haberer K, and Baumann W. "Isolierung von Ibuprofen - Metaboliten und deren Bedeutung als Kontaminanten der aquatischen Umwelt." *Vom Wasser* **1998**, *91*:291-303.

Stumpf M, Ternes TA, Haberer K, Seel P, and Baumann W. "Nachweis von Arzneimittelrückständen in Kläranlagen und Fließgewässern (Determination of pharmaceutics in sewage treatment plants and river water)." *Vom Wasser* **1996**, *86*:291-303.

Stumpf M, Ternes TA, Wilken R-D, Silvana Vianna R, and Baumann W. "Polar drug residues in sewage and natural waters in the state of Rio de Janeiro, Brazil." *Science of the Total Environment* **1999**, *225*(1-2):135-141; doi:10.1016/S0048-9697(98)00339-8.

Stupak B and Smith L. 2009, "HR 1359: Secure and Responsible Drug Disposal Act of 2009." US Congress, http://www.govtrack.us/congress/bill.xpd?bill=h111-1359, http://thomas.loc.gov/cgi-bin/query/z?c111:H.R.1359.IH:.

Sturini M, Speltini A, Pretali L, Fasani E, and Profumo A. "Solid-phase extraction and HPLC determination of fluoroquinolones in surface waters." *Journal of Separation Science* **2009**, *32*(17):3020-3028; doi:10.1002/jssc.200900135.

Sturm A and Segner H. "P-glycoproteins and xenobiotic efflux transport in fish." in *Environmental Toxicology, Biochemistry and Molecular Biology of Fishes*, Mommsen TP and Moon TW, Eds., Elsevier; Amsterdam, 2005, Chapter 18, pp 475-493; doi:10.1016/S1873-0140(05)80021-9; http://www.lavoisier.fr/notice/gb281766.html http://www.elsevier.com/wps/find/bookdescription.cws_home/704481/description#toc.

Sturve J, Almroth BC, and Forlin L. "Oxidative stress in rainbow trout (Oncorhynchus mykiss) exposed to sewage treatment plant effluent." *Ecotoxicology and Environmental Safety* **2008**, *70*(3):446-452; doi:10.1016/j.ecoenv.2007.12.004.

Suárez Martínez S. "Strategies for the treatment of municipal and hospital wastewaters containing Pharmaceutical and Personal Care Products." Doctoral Dissertation, 2008.

Suárez S, Carballa M, Omil F, and Lema J. "How are pharmaceutical and personal care products (PPCPs) removed from urban wastewaters?" *Reviews in Environmental Science and Biotechnology* **2008**, *7*(2):125-138; doi:10.1007/s11157-008-9130-2.

Suarez S, Dodd MC, Omil F, and von Gunten U. "Kinetics of triclosan oxidation by aqueous ozone and consequent loss of antibacterial activity: Relevance to municipal wastewater ozonation." *Water Research* **2007**, *41*(12):2481-2490; doi:10.1016/j.watres.2007.02.049.

Suarez S, Lema JM, and Omil F. "Pre-treatment of hospital wastewater by coagulation-flocculation and flotation." *Bioresource Technology* **2009**, *100*(7):2138-2146; doi:10.1016/j.biortech.2008.11.015.

Suarez S, Ramill M, Omil F, and Lema JMRopacin-dp. "Removal of pharmaceutically active compounds in nitrifying-denitrifying plants." *Water Science and Technology* **2005**, *52*(8):9-14.

Subrahmanyam K and Yadaiah P. "The impact of paleo-channel on groundwater contamination, Andhra Pradesh, India." *Environmental Geology* **2000**, *40*(1):169-183; doi:10.1007/PL00013328.

Subramanya NT. "Biodegradation of bisphenol A and ibuprofen by ammonia oxidizing bacteria." Masters Dissertation, Texas A&M University, 2007. 86 pp; http://txspace.tamu.edu/bitstream/handle/1969.1/5841/etd-tamu-2007A-CVEN-Subrama.pdf?sequence=1.

Subratty AH and Nathire MEH. "A survey on home generated medical waste in Mauritius." *International Journal of Environmental Health Research* **2005**, *15*(1):45-52; doi:10.1080/09603120400018915.

Substance Abuse and Mental Health Services Administration and Office of Applied Studies. "Drug Abuse Warning Network, 2005: National Estimates of Drug-Related Emergency Department Visits." US Department of Health and Human Services, February 2007. 94 pp; http://dawninfo.samhsa.gov/files/DAWN-ED-2005-Web.pdf.

Suchara EA, Budziak D, Martendal E, Costa LLF, and Carasek E. "A combination of statistical and analytical evaluation methods as a new optimization strategy for the quantification of pharmaceutical residues in sewage effluent." *Analytica Chimica Acta* **2008**, *613*(2):169-176; doi:10.1016/j.aca.2008.02.067.

Sudova E, Machova J, Svobodova Z, and Vesely T. "Negative effects of malachite green and possibilities of its replacement in the treatment of fish eggs and fish: a review." *Veterinarni Medicina* **2007**, *52*(12):527-539.

Suedee R, Srichana T, Chuchome T, and Kongmark U. "Use of molecularly imprinted polymers from a mixture of tetracycline and its degradation products to produce affinity membranes for the removal of tetracycline from water." *Journal of Chromatography B: Biomedical Sciences and Applications* **2004**, *811*(2):191-200; doi:10.1016/j.jchromb.2004.08.044.

Sugise T, Hayashida Y, Hanafusa T, Nanjo E, and Yamashita I. "Monitoring of vasculogenesis-inhibiting activities in sewage effluents by using medaka embryos." *Environmental Science & Technology* **2006**, *40*(6):2051-2055; doi:10.1021/es051956i.

Sui Q, Huang J, Deng S, Yu G, and Fan Q. "Occurrence and removal of pharmaceuticals, caffeine and DEET in wastewater treatment plants of Beijing, China." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.07.010.

Suidan MT, Esperanza M, Zein M, McCauley P, Brenner RC, and Venosa AD. "Challenges in biodegradation of trace organic contaminants - Gasoline oxygenates and sex hormones." *Water Environment Research* **2005**, *77*(1):4-11; doi:10.2175/106143005X41564.

Sukul P, Lamshöft M, Kusari S, Zühlke S, and Spiteller M. "Metabolism and excretion kinetics of 14C-labeled and non-labeled difloxacin in pigs after oral administration, and antimicrobial activity of manure containing difloxacin and its metabolites." *Environmental Research* **2009**, *109*(3):225-231; doi:10.1016/j.envres.2008.12.007.

Sukul P, Lamshöft M, Zühlke S, and Spiteller M. "Photolysis of 14C-sulfadiazine in water and manure." *Chemosphere* **2008**, *71*(4):717-725; doi:10.1016/j.chemosphere.2007.10.045.

Sukul P and Spiteller M. "Sulfonamides in the Environment as Veterinary Drugs." in *Reviews of Environmental Contamination and Toxicology*, Springer New York; 2006, pp 67-101; http://www.springerlink.com/content/p321nk7885388607/.

Sukul P and Spiteller M. "Fluoroquinolone antibiotics in the environment." in *Reviews of Environmental Contamination and*

Toxicology, Springer; New York, NY, 2007, pp 131-162; doi:10.1007/978-0-387-69163-3_5; http://www.ncbi.nlm.nih.gov/pubmed/17708074.

Suling V and Wolfram T. "Determination of selected pharmaceutical products in water of Bremen." *Vom Wasser* **2000**, *95*:269-278.

Sullivan C, Mitchelmore CL, Hale RC, and Van Veld PA. "Induction of CYP1A and DNA damage in the fathead minnow (Pimephales promelas) following exposure to biosolids." *Science of the Total Environment* **2007**, *384*(1-3):221-228; doi:10.1016/j.scitotenv.2007.06.006.

Suman Raj DS and Anjaneyulu Y. "Evaluation of biokinetic parameters for pharmaceutical wastewaters using aerobic oxidation integrated with chemical treatment." *Process Biochemistry* **2005**, *40*(1):165-175; doi:10.1016/j.procbio.2003.11.056.

Summavielle T. "Drug metabolism." in *Assessing illicit drugs in wastewater: Potential and limitations of a new monitoring approach*, European Monitoring Centre for Drugs and Drug Addiction (EMCDDA); Lisbon, Portugal, 2008, Chapter 3, pp 35-52; http://www.emcdda.europa.eu/attachements.cfm/att_65636_EN_EMCDDA-insights9-wastewater.pdf.

Summers AO. "Generally overlooked fundamentals of bacterial genetics and ecology." *Clinical Infectious Diseases* **2002**, *34*(Suppl 3):85-92; doi:10.1086/340245.

Summerton L and Clark J. "Proceedings of the workshop." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 43 pp.

Summerton L, Clark J, Greenwood R, Mills G, Boxall A, Touraud E*, et al.* "Proceedings of: Environmental Stewardship of Pharmaceuticals and Policy Instruments." in Central Science Laboratories, York, UK, 29-30 April, 2008, Deliverable number D5.3 http://www.knappe-eu.org/fichiers/47-D5.3%20_Proceedings_York_Ecopharmacostewarship.pdf.

Sumner NR, Guitart C, Fuentes G, and Readman JW. "Inputs and distributions of synthetic musk fragrances in an estuarine and coastal environment; a case study." *Environmental Pollution* **2010**, *158*(1):215-222; doi:10.1016/j.envpol.2009.07.018.

Sumpter JP. "Human pharmaceuticals in the environment: The European perspective." Brunel University, 24 pp; http://environmentalhealthcollaborative.org/images/JohnSumpterPresentation.pdf.

Sumpter JP. "Environmental effects of human pharmaceuticals." *Drug Information Journal* **2007**, *41*(2):143-147.

Sumpter JP. "The ecotoxicology of hormonally active micropollutants." *Water Science and Technology* **2008**, *57*(1):125-130; doi:10.2166/wst.2008.796.

Sumpter JP. "Protecting aquatic organisms from chemicals: the harsh realities." *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences* **2009**, *367*(1904):3877-3894; doi:10.1098/rsta.2009.0106.

Sumpter JP and Jobling S. "Vitellogenesis as a Biomarker for Estrogenic Contamination of the Aquatic Environment." *Environmental Health Perspectives* **1995**, *103*(Suppl 7):173-178.

Sumpter JP and Johnson AC. "Lessons from endocrine disruption and their application to other issues concerning trace organics in the aquatic environment." *Environmental Science & Technology* **2005**, *39*(12):4321-4332; doi:10.1021/es048504a.

Sumpter JP and Johnson AC. "Response to comment on 'Lessons from endocrine disruption and their application to other issues concerning trace organics in the aquatic environment'." *Environmental Science & Technology* **2006**, *40*(3):1086-1087; doi:10.1021/es0523082.

Sumpter JP and Johnson AC. "10th Anniversary Perspective: Reflections on endocrine disruption in the aquatic environment: from known knowns to unknown unknowns (and many things in between)." *Journal of Environmental Monitoring* **2008**, *10*(12):1476-1485; doi:10.1039/b815741n.

Sumpter JP, Johnson AC, Williams RJ, Kortenkamp A, and Scholze M. "Modeling effects of mixtures of endocrine disrupting chemicals at the river catchment scale." *Environmental Science & Technology* **2006**, *40*(17):5478-5489; doi:10.1021/es052554d.

Sun H, Li L, and Chen X. "Flow-injection chemiluminescence determination of ofloxacin and levofloxacin in pharmaceutical preparations and biological fluids." *Analytical Sciences* **2006**, *22*(8):1145-1149.

Sun H, Zhang X, Niu Q, Chen Y, and Crittenden J. "Enhanced Accumulation of Arsenate in Carp in the Presence of Titanium Dioxide Nanoparticles." *Water, Air, & Soil Pollution* **2007**, *178*(1):245-254; doi:10.1007/s11270-006-9194-y.

Sun H-w, Li L-q, Chen X-y, Shi H-m, and Lue Y-k. "Determination of norfloxacin by flow injection analysis with chemiluminescence detection." *Canadian Journal of Analytical Sciences and Spectroscopy* **2006**, *51*(2):100-107.

Sun J, Chen Y, Deng L, Wu F, and Deng NS. "Photodegradation of environmental endocrine disruptors in water in the presence of Fe(III)-carboxylate complexes." *Fresenius Environmental Bulletin* **2006**, *15*(2):113-117.

Sun L, Chen L, Sun X, Du X, Yue Y, He D*, et al.* "Analysis of sulfonamides in environmental water samples based on magnetic mixed hemimicelles solid-phase extraction coupled with HPLC-UV detection." *Chemosphere* **2009**, *77*(10):1306-1312; doi:10.1016/j.chemosphere.2009.09.049.

Sun L, Yong W, Chu X, and Lin J-M. "Simultaneous determination of 15 steroidal oral contraceptives in water using solid-phase disk extraction followed by high performance liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(28):5416-5423; doi:10.1016/j.chroma.2009.05.041.

Sun L, Zha J, Spear PA, and Wang Z. "Tamoxifen effects on the early life stages and reproduction of Japanese medaka (Oryzias latipes)." *Environmental Toxicology and Pharmacology* **2007**, *24*(1):23-29; doi:10.1016/j.etap.2007.01.003.

Sun L, Zha J, and Wang Z. "Effects of binary mixtures of estrogen and antiestrogens on Japanese medaka (Oryzias latipes)." *Aquatic Toxicology* **2009**, *93*(1):83-89; doi:10.1016/j.aquatox.2009.03.010.

Sun L, Zhang C, Chen L, Liu J, Jin H, Xu H*, et al.* "Preparation of alumina-coated magnetite nanoparticle for extraction of trimethoprim from environmental water samples based on mixed hemimicelles solid-phase extraction." *Analytica Chimica Acta* **2009**, *638*(2):162-168; doi:10.1016/j.aca.2009.02.039.

Sun N, McMullan M, Papakonstantinou P, Gao H, Zhang X, Mihailovic D*, et al.* "Bioassembled nanocircuits of $Mo_6S_{9-x}I_x$ nanowires for electrochemical immunodetection of estrone hapten." *Analytical Chemistry* **2008**, *80*(10):3593-3597; doi:10.1021/ac7024893.

Sun Q, Deng S, Huang J, Shen G, and Yu G. "Contributors to estrogenic activity in wastewater from a large wastewater treatment plant in Beijing, China." *Environmental Toxicology and Pharmacology* **2008**, *25*(1):20-26; doi:10.1016/j.etap.2007.08.003.

Sun S-P, Guo H-Q, Ke Q, Sun J-H, Shi S-H, Zhang M-L*, et al.* "Degradation of Antibiotic Ciprofloxacin Hydrochloride by Photo-Fenton Oxidation Process." *Environmental Engineering Science* **2009**, *26*(4):753-759; doi:10.1089/ees.2008.0076.

Sun XY, Chen H, Gao H, and Guo XQ. "Screening of tetracycline residues in fish muscles by CCD camera-based solid-surface fluorescence." *Journal of Agricultural and Food Chemistry* **2006**, *54*(26):9687-9695; doi:10.1021/jf0622580.

Sun Y, Wada M, Kuroda N, Hirayama K, Nakazawa H, and Nakashima K. "Simultaneous determination of phenolic xenoestrogens by solid-phase extraction and high-performance liquid chromatography with fluorescence detection." *Analytical Sciences* **2001**, *17*(6):697-702.

Sun Y, Watts DC, Johnson JR, and Shukla AJ. "Biodegradable drug delivery systems." *American Pharmaceutical Review* **2001**, *4*(4):25-30.

Sun Z. "Synthesis and Application of Diclofenac Molecularly Imprinted Polymers for Selective Trace Analysis." Doctoral Dissertation, Institut für Wasserchemie und Chemische Balneologie der Technischen Universität München Munich, Germany, 2009. http://deposit.ddb.de/cgi-bin/dokserv?idn=994918763&dok_var=d1&dok_ext=pdf&filename=994918763.pdf.

Sun Z, Schüssler W, Sengl M, Niessner R, and Knopp D. "Selective trace analysis of diclofenac in surface and wastewater samples using solid-phase extraction with a new molecularly imprinted polymer." *Analytica Chimica Acta* **2008**, *620*(1-2):73-81; doi:10.1016/j.aca.2008.05.020.

Suntisukaseam U, Weschayanwiwat P, and Sabatini DA. "Sorption of Amphiphile Pharmaceutical Compounds onto Polar and Nonpolar Adsorbents." *Environmental Engineering Science* **2007**, *24*(10):1457-1466; doi:10.1089/ees.2006.0279.

Supalkova V, Beklova M, Baloun J, Singer C, Sures B, Adam V*, et al.* "Affecting of aquatic vascular plant Lemna minor by cisplatin revealed by voltammetry." *Bioelectrochemistry* **2008**, *72*(1):59-65; doi:10.1016/j.bioelechem.2007.11.012.

SuperArray Bioscience Corporation "Pathway Central." 2008; http://www.superarray.com/pathwaycentral.php.

Surfers Against Sewage (SAS). "Surfers Against Sewage." *Environmental Health Perspectives* **1996**, *104*(7):Forum.

Suter Eichenberger R, Altorfer H, Lichtensteiger W, and Schlumpf M. "Bioaccumulation of musk xylene (MX) in developing and adult rats of both sexes." *Chemosphere* **1998**, *36*(13):2747-2762; doi:10.1016/S0045-6535(97)10234-X.

Sütterlin H, Trittler R, Bojanowski S, Stadlbauer EA, and Kümmerer K. "Fate of Benzalkonium Chloride in a Sewage Sludge Low Temperature Conversion Process Investigated by LC-LC/ESI-MS/MS." *CLEAN - Soil, Air, Water* **2007**, *35*(1):81-87; doi:10.1002/clen.200600011.

Sutton R. "Teen Girls' Body Burden of Hormone-Altering Cosmetics Chemicals." Environmental Working Group EWG, 24 September, 2008, 38 pp; http://www.ewg.org/book/export/html/26953.

Suvilampi J, Lehtomaki A, and Rintala J. "Comparative study of laboratory-scale thermophilic and mesophilic activated sludge processes." *Water Research* **2005**, *39*(5):741-750; doi:10.1016/j.watres.2004.11.025.

Suzuki K, Hirai H, Murata H, and Nishida T. "Removal of estrogenic activities of 17β-estradiol and ethinylestradiol by ligninolytic enzymes from white rot fungi." *Water Research* **2003**, *37*(8):1972-1975; doi:10.1016/S0043-1354(02)00533-X.

Suzuki S, Kobayashi T, Suehiro F, Tuyen BC, and Tana TS. "High Occurrence Rate of Tetracycline (TC)-Resistant Bacteria and TC Resistance Genes Relates to Microbial Diversity in Sediment of Mekong River Main Waterway." *Microbes and Environments* **2008**, *23*(2):149-152; doi:10.1264/jsme2.23.149.

Suzuki T, Ezure T, Yamaguchi T, Domen H, Ishida M, and Schmidt W. "Stimulatory Effect of Procaine on the Growth of Several Microalgae and Cyanobacteria." *Journal of Pharmacy and Pharmacology* **2000**, *52*(2):243-251.

Suzuki T, Kitamura S, Khota R, Sugihara K, Fujimoto N, and Ohta S. "Estrogenic and antiandrogenic activities of 17 benzophenone derivatives used as UV stabilizers and sunscreens." *Toxicology and Applied Pharmacology* **2005**, *203*(1):9-17; doi:10.1016/j.taap.2004.07.005.

Suzuki T, Nakasato K, Shapiro S, Pomati F, and Neilan BA. "Effects of synthetic local anaesthetics on the growth of the cyanobacterium Synechococcus leopoliensis." *Journal of Applied Phycology* **2004**, *16*(2):145-152; doi:10.1023/B:JAPH.0000044776.04977.00.

Suzuki T, Yaguchi K, Suzuki S, and Suga T. "Monitoring of Phthalic Acid Monoesters in River Water by Solid-Phase Extraction and GC-MS Determination." *Environmental Science & Technology* **2001**, *35*(18):3757-3763.

Suzuki Y and Maruyama T. "Fate of natural estrogens in batch mixing experiments using municipal sewage and activated sludge." *Water Research* **2006**, *40*(5):1061-1069; doi:10.1016/j.watres.2005.12.043.

Svendsen TS, Sommer C, Holter P, and Gronvold J. "Survival and growth of Lumbricus terrestris (Lumbricidae) fed on dung from cattle given sustained-release boluses of ivermectin or fenbendazole." *European Journal of Soil Biology* **2002**, *38*(3):319-322; doi:10.1016/S1164-5563(02)01167-6.

Svenson A and Allard AS. "Occurrence and some properties of the androgenic activity in municipal sewage effluents." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2005**, *39*(3):693-701; doi:10.1081/ESE-120027735.

Swackhamer DL. "Aquatic Processes and Systems in Perspective." *Journal of Environmental Monitoring* **2006**, *8*:874; doi:10.1039/b608170n.

Swan G, Naidoo V, Cuthbert R, Green RE, Pain DJ, Swarup D*, et al.* "Removing the Threat of Diclofenac to Critically Endangered Asian Vultures." *PLoS Biology* **2006**, *4*(3):e66; doi:10.1371/journal.pbio.0040066.

Swan GE, Cuthbert R, Queved M, Green RE, Pain DJ, Bartels P*, et al.* "Toxicity of diclofenac to Gyps vultures." *Biology Letters* **2006**, *2*(2):279-282; doi:10.1098/rsbl.2005.0425.

Swanson RL. "Ocean dumping of municipal and industrial wastes in the United States." in *Marine waste management: Science and policy*, Year Unknown, Oceanic Processes in Marine Pollution, pp 35-52; http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=5817841&q=+pharmaceutical+disposal&uid=790088066&setcookie=yes.

Swanson SM, Swanson SM, and Fraikin CG. "Multiple Stressors: Risk-Based Framework and Experimental Design for Cause/Effect Relationships." Water Environment Research Foundation (WERF), 2005, 145 pp; http://www.werf.org/AM/Template.cfm?Section=Research_Profile&Template=/CustomSource/Research/PublicationProfile.cfm&id=

00-ECO-2.

Swarbrick J. "Encyclopedia of pharmaceutical technology." London, UK, Informl Healthcare, 2006, 3rd ed.; http://www.informaworld.com/smpp/title~content=t713172974.

Swart HC, du Preez JL, de Villiers MM, Lotter AP, and Liebenberg W. "Correlation between in vitro release from topical delivery vehicles and microbicidal activity of triclosan." *Pharmazie* **2006**, *61*(1):35-40.

Swart N and Pool E. "Rapid Detection of Selected Steroid Hormones from Sewage Effluents using an ELISA in the Kuils River Water Catchment Area, South Africa." *Journal of Immunoassay and Immunochemistry* **2007**, *28*(4):395 - 408.

Swartz CH, Reddy S, Benotti MJ, Yin HF, Barber LB, Brownawell BJ*, et al.* "Steroid estrogens, nonylphenol ethoxylate metabolites, and other wastewater contaminants in groundwater affected by a residential septic system on Cape Cod, MA." *Environmental Science & Technology* **2006**, *40*(16):4894-4902; doi:10.1021/es052595+.

Swartz CH, Rudel RA, Kachajian JR, and Brody JG. "Historical reconstruction of wastewater and land use impacts to groundwater used for public drinking water: Exposure assessment using chemical data and GIS." *Journal of Exposure Analysis and Environmental Epidemiology* **2003**, *13*(5):403-416; doi:10.1038/sj.jea.7500291.

Swarup D and Patra RC. "Environmental pollution and its impact on domestic animals and wildlife." *Indian Journal of Animal Sciences* **2005**, *75*(2):231-240.

Swarup D, Patra RC, Prakash V, Cuthbert R, Das D, Avari P*, et al.* "Safety of meloxicam to critically endangered Gyps vultures and other scavenging birds in India." *Animal Conservation* **2007**, *10*(2):192-198; doi:10.1111/j.1469-1795.2006.00086.x.

Swati M, Rema T, and Joseph K. "Hazardous organic compounds in urban municipal solid waste from a developing country." *Journal of Hazardous Materials* **2008**, *160*(1):213-219; doi:10.1016/j.jhazmat.2008.02.111.

Swenson DH. "Our stolen future: Are we threatening our fertility, intelligence and survival? A scientific detective story : Theo Colburn, Dianne Dumanoski and John Peterson Myers. Dutton Press, New York, 1996, 306 pp., $24.95, ISBN 0-525-93982-2." *Preventive Veterinary Medicine* **1997**, *32*(1-2):144-147; doi:10.1016/S0167-5877(96)01127-0.

Swissmedic "Swiss Pharmaceutical Compendium." Swiss Agency for Therapeutic Products 2008; http://www.swissmedic.ch/?lang=2.

Szczepanowski R, Bekel T, Goesmann A, Krause L, Krömeke H, Kaiser O*, et al.* "Insight into the plasmid metagenome of wastewater treatment plant bacteria showing reduced susceptibility to antimicrobial drugs analysed by the 454-pyrosequencing technology." *Journal of Biotechnology* **2008**, *136*(1-2):54-64; doi:10.1016/j.jbiotec.2008.03.020.

Szprengier-Juszkiewicz T. "Veterinary drugs - principles of environmental risk assessment." *Medycyna Weterynaryjna* **2002**, *58*(3):169-174.

Szymanski A, Rykowska I, and Wasiak W. "New ketoimine sorbents in solid phase extraction for HPLC analysis of bisphenol a [sic-bisphenol A] and other "endocrine disrupting" residues in drinking water." *Polish Journal of Environmental Studies* **2006**, *15*:479-483.

T.H. "Apple pests stand up to antibiotics.(drug resistant bacteria found in orchards)." *Science News* **2000**, *157*:184.

Tabak HH, Bloomhuff RN, and Bunch RL. "Steroid hormones as water pollutants II. Studies on the persistence and stability of natural urinary and synthetic ovulation-inhibiting hormones in treated and treated wastewaters." in *Developments in Industrial Microbiology, Society for Industrial Microbiology, American Institute of Biological Sciences*, Underkofler LA, Ed., Grayson & Biedenbach Associates; Washington, DC, 1981, Volume 22, Chapter 43, pp 497-519 (Proceedings of the Thirty-Seventh General Meeting of the Society for Industrial Microbiology Held in Burlington, Vermont, August 417–422, 1969). [ISSN 0070-4563]; http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=266587&q=author%3A%22Tabak%22+intitle%3A%22Steroid+Hormones+as+Water+Pollutants.+II.+Studies+on+the+...%22+&uid=&setcookie=yes.

Tabak HH and Bunch RL. "Steroid hormones as water pollutants I. Metabolism of natural and synthetic ovulation-inhibiting hormones by microorganisms of activated sludge and primary settled sewage." in *Developments in Industrial Microbiology, Society for Industrial Microbiology, American Institute of Biological Sciences*, Corum CJ, Ed., Garamond/Pridemark Press; Baltimore, MD, 1970, Volume 11, Chapter 35, pp 367-376 (Proceedings of the Twenty-Sixth General Meeting of the Society for Industrial Microbiology Held in Burlington, Vermont, August 317–322, 1969); http://www.amazon.com/Developments-Industrial-Microbiology-11-Society/dp/B000U0CS7S/ref=sr_1_2?ie=UTF8&s=books&qid=1235485444&sr=1-2.

Tabb MM and Blumberg B. "New Modes of Action for Endocrine-Disrupting Chemicals." *Molecular Endocrinology* **2006**, *20*(3):475-

482; doi:10.1210/me.2004-0513.

Tabe S, Yue C, Seth R, Yang P, Zhao X, Hao C*, et al.* "Ozonation Process for Removal and Transformation of Pharmaceuticals and Personal Care Products (PPCPs) and Endocrine Disrupting Compounds (EDCs) in Source Waters of Detroit River Watershed." presented at IOA Conference and Exhibition, 29-31 October, at Valencia, Spain, 2007; http://www.chimia.it/pdf/Paper%202.02.pdf.

Tabor E and Rice LB. "Bacteria by the Book." *Science* **2008**, *322*(5903):853b-854; doi:10.1126/science.322.5903.853b.

Tacon AGJ and Forster IP. "Aquafeeds and the environment: policy implications." *Aquaculture* **2003**, *226*(1-4):181-189; doi:10.1016/S0044-8486(03)00476-9.

Tadkaew N, Sivakumar M, Khan SJ, McDonald JA, and Nghiem LD. "Effect of mixed liquor pH on the removal of trace organic contaminants in a membrane bioreactor." *Bioresource Technology* **2009**, *In Press*; doi:10.1016/j.biortech.2009.09.082.

Tadkaew N, Sivakumar M, and Nghiem LD. "Membrane bioreactor technology for decentralised wastewater treatment and reuse." *International Journal of Water* **2007**, *3*(4):368-380; doi:10.1504/IJW.2007.016320.

Taggart MA, Cuthbert R, Das D, Sashikumar C, Pain DJ, Green RE*, et al.* "Diclofenac disposition in Indian cow and goat with reference to Gyps vulture population declines." *Environmental Pollution* **2007**, *147*(1):60-65; doi:10.1016/j.envpol.2006.08.017.

Taggart MA, Senacha KR, Green RE, Cuthbert R, Jhala YV, Meharg AA*, et al.* "Analysis of Nine NSAIDs in Ungulate Tissues Available to Critically Endangered Vultures in India." *Environmental Science & Technology* **2009**, *43*(12):4561-4566; doi:10.1021/es9002026.

Taggart MA, Senacha KR, Green RE, Jhala YV, Raghavan B, Rahmani AR*, et al.* "Diclofenac residues in carcasses of domestic ungulates available to vultures in India." *Environment International* **2007**, *33*(6):759-765; doi:10.1016/j.envint.2007.02.010.

Taghipour H and Mosaferi M. "Characterization of medical waste from hospitals in Tabriz, Iran." *Science of the Total Environment* **2009**, *407*(5):1527-1535; doi:10.1016/j.scitotenv.2008.11.032.

Tagiri-Endo M, Suzuki S, Nakamura T, Hatakeyama T, and Kawamukai K. "Rapid determination of five antibiotic residues in swine wastewater by online solid-phase extraction–high performance liquid chromatography–tandem mass spectrometry." *Analytical and Bioanalytical Chemistry* **2009**, *393*(4):1367-1375; doi:10.1007/s00216-008-2543-5.

Tahedl H and Häder D-P. "Fast examination of water quality using the automatic biotest ECOTOX based on the movement behavior of a freshwater flagellate." *Water Research* **1999**, *33*(2):426-432; doi:10.1016/S0043-1354(98)00224-3.

Takahashi A, Higashitani T, Yakou Y, Saitou M, Tamamoto H, and Tanaka H. "Evaluating bioaccumulation of suspected endocrine disruptors into periphytons and benthos in the Tama River." *Water Science and Technology* **2003**, *47*(9):71-76.

Takahashi O and Oishi S. "Testicular toxicity of dietarily or parenterally administered bisphenol A in rats and mice." *Food and Chemical Toxicology* **2003**, *41*(7):1035-1044; doi:10.1016/S0278-6915(03)00031-0.

Takahashi Y, Tojo T, Nagahora S, and Yamazaki K. "Direct determination of estrogenic and antiestrogenic activities using an enhanced plant two-hybrid system." *Journal of Agricultural and Food Chemistry* **2007**, *55*(8):2923-2929; doi:10.1021/jf0632482.

Takao Y, Shimaza M, Fukuda M, Ishibashi H, Nagae M, Kohra S*, et al.* "Seasonal and diurnal fluctuations in the concentrations of the pharmaceutials and personal care products (PPCPs) in residential sewage water." *Journal of Health Science* **2008**, *54*(2):240-243.

Takats Z, Wiseman JM, Gologan B, and Cooks RG. "Mass Spectrometry Sampling Under Ambient Conditions with Desorption Electrospray Ionization." *Science* **2004**, *306*(5695):471-473; doi:10.1126/science.1104404.

Talebi M, Rahimi F, Katouli M, Möllby R, and Pourshafie M. "Epidemiological Link Between Wastewater and Human Vancomycin-Resistant Enterococcus faecium Isolates." *Current Microbiology* **2008**, *56*(5):468-473; doi:10.1007/s00284-008-9113-0.

Tamagawa Y, Yamaki R, Hirai H, Kawai S, and Nishida T. "Removal of estrogenic activity of natural steroidal hormone estrone by ligninolytic enzymes from white rot fungi." *Chemosphere* **2006**, *65*(1):97-101; doi:10.1016/j.chemosphere.2006.02.031.

Tamosiunas V and Padarauskas A. "Comparison of LC and UPLC coupled to MS-MS for the determination of sulfonamides in egg and honey." *Chromatographia* **2008**, *67*(9-10):783-788; doi:10.1365/s10337-008-0579-5.

Tamtam F, Lebot B, Eurin J, Mercier F, Tiphagne-Larcher K, Desportes A*, et al.* "Étude des sources et du devenir de deux

antibiotiques dans les eaux de la Seine : l'acide oxolinique et le sulfaméthoxazole [Sources and fate of two antibiotics in the river Seine: oxolinic acid and sulfamethoxazole]." *European Journal of Water Quality* **2007**, *38*:155-168; doi:10.1051/wqual/2007005.

Tamtam F, Mercier F, Eurin J, Chevreuil M, and Le Bot B. "Ultra performance liquid chromatography tandem mass spectrometry performance evaluation for analysis of antibiotics in natural waters." *Analytical and Bioanalytical Chemistry* **2009**, *393*(6):1709-1718; doi:10.1007/s00216-008-2576-9.

Tamtam F, Mercier F, Le Bot B, Eurin J, Tuc Dinh Q, Clement M*, et al.* "Occurrence and fate of antibiotics in the Seine River in various hydrological conditions." *Science of the Total Environment* **2008**, *393*(1):84-95; doi:10.1016/j.scitotenv.2007.12.009.

Tan X. "P-glycoprotein and Membrane Permeability as Determinants for Xenobiotic Bioavailability and Bioaccumulation." Doctoral Dissertation, Shandong Medical University, Comparative Biomedical Sciences, Shandong, China, 2007. 157 pp; http://etd.lsu.edu/docs/available/etd-11152007-101053/.

Tan Y-T, Tillett DJ, and McKay IA. "Molecular strategies for overcoming antibiotic resistance in bacteria." *Molecular Medicine Today* **2000**, *6*(8):309-314; doi:10.1016/S1357-4310(00)01739-1.

Tanabe S. "Synthetic musks--arising new environmental menace?" *Marine Pollution Bulletin* **2005**, *50*(10):1025-1026; doi:10.1016/j.marpolbul.2005.07.005.

Tanaka T, Tamura T, Ishizaki Y, Kawasaki A, Kawase T, Teraguchi M*, et al.* "Enzymatic treatment of estrogens and estrogen glucuronide." *Journal of Environmental Sciences* **2009**, *21*(6):731-735; doi:10.1016/S1001-0742(08)62332-3.

Tang C-M, Huang Q-X, Yu Y-Y, and Peng X-Z. "Multiresidue Determination of Sulfonamides, Macrolides, Trimethoprim, and Chloramphenicol in Sewage Sludge and Sediment Using Ultrasonic Extraction Coupled with Solid Phase Extraction and Liquid Chromatography-Tandem Mass Spectrometry." *Chinese Journal of Analytical Chemistry* **2009**, *37*(8):1119-1124; doi:10.1016/S1872-2040(08)60120-6.

Tanner T and Marks R. "Delivering drugs by the transdermal route: review and comment." *Skin Research and Technology* **2008**, *14*(3):249-260; doi:10.1111/j.1600-0846.2008.00316.x.

Tao Y, Liu J-F, Hu X-L, Li H-C, Wang T, and Jiang G-B. "Hollow Fiber Supported Ionic Liquid Membrane Microextraction for Determination of Sulfonamides in Environmental Water Samples by High-performance Liquid Chromatograph." *Journal of Chromatography A* **2009**, *1216*(35):6259-6266; doi:10.1016/j.chroma.2009.06.025.

Tarazona JV, Buzby ME, Hartmann A, Housenger JE, Olejniczak K, Sager NB*, et al.* "Scientific basis for aquatic environmental risk assessment of human pharmaceuticals." in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Willams RT, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 8, pp 269-302.

Tarazona JV, Escher B, Giltrow E, Sumpter JP, and Knacker T. "Targeting the environmental risk assessment of pharmaceuticals: facts and fantasies." *Integrated Environmental Assessment and Management* **2009**, *In press*; doi:10.1897/IEAM_2009-052.1.

Tarling MM, Berg N, Struning L, and Walton A. "The use of absorbent materials for the disposal of controlled drugs." *Anaesthesia* **1996**, *51*(9):836-838; doi:10.1111/j.1365-2044.1996.tb12612.x.

Tarrant AM, Atkinson MJ, and Atkinson S. "Effects of steroidal estrogens on coral growth and reproduction." *Marine Ecology Progress Series* **2004**, *269*:121-129.

Tarrant AM, Atkinson S, and Atkinson MJ. "Estrone and estradiol-17β concentration in tissue of the scleractinian coral, Montipora verrucosa." *Comparative Biochemistry and Physiology, Part A: Molecular & Integrative Physiology* **1999**, *122*(1):85-92; doi:10.1016/S1095-6433(98)10155-1.

Tarrant H, Mousakitis G, Wylde S, Tattersall N, Lyons A, Maloney M*, et al.* "Raised plasma vitellogenin in male wild brown trout (salmo trutta) near a wastewater treatment plant in Ireland." *Environmental Toxicology and Chemistry* **2008**, *27*(8):1773-1779; doi:10.1897/07-436.1.

Tarver T. ""Just Add Water": Regulating and Protecting the Most Common Ingredient." *Journal of Food Science* **2008**, *73*(1):R1-R13; doi:10.1111/j.1750-3841.2007.00611.x.

Tas JW, Balk F, Ford RA, and van de Plassche EJ. "Environmental risk assessment of musk ketone and musk xylene in the Netherlands in accordance with the EU-TGD." *Chemosphere* **1997**, *35*(12):2973-3002; doi:10.1016/S0045-6535(97)00261-0.

Tashiro Y, Takemura A, Fujii H, Takahira K, and Nakanishi Y. "Livestock wastes as a source of estrogens and their effects on wildlife of Manko tidal flat, Okinawa." *Marine Pollution Bulletin* **2003**, *47*(1-6):143-147; doi:10.1016/S0025-326X(03)00053-5.

Tata V. "Fate and transport of pharmaceutical and personal care products in the Detroit River." Masters Dissertation, Wayne State University, Michigan, 2006. 94 pp; http://proquest.umi.com/pqdlink?did=1257798281&Fmt=14&VType=PQD&VInst=PROD&RQT=309&VName=PQD&TS=1245264429&clientId=79356.

Tatarazako N, Ishibashi H, Teshima K, Kishi K, and Arizono K. "Effects of triclosan on various aquatic organisms." *Environmental Sciences* **2004**, *11*(2):133-140.

Tauber R. "Quantitative analysis of pharmaceuticals in drinking water from ten Canadian cities." Enviro-Test Laboratories/Xenos Division, Ontario, Canada, 20 January, 2003, 1-6 pp; http://www.ctv.ca/servlet/ArticleNews/story/CTVNews/20030209/drugs_water030209/.

Taubes G. "The Bacteria Fight Back." *Science* **2008**, *321*(5887):356-361; doi:10.1126/science.321.5887.356.

Taubes G. "The 18 July 2008 show includes pathogenic fungi, resistance genes in natural environments, extremely multi-drug resistant bacteria, and more." Science Podcast, 18 July 2008; Podcast: http://www.sciencemag.org/content/vol321/issue5887/images/data/356/DC1/356.mp3
Podcaste transcript: http://www.sciencemag.org/cgi/data/321/5887/423b/DC1/1.

Tauxe Würsch A. "Wastewaters: occurrence of pharmaceutical substances and genotoxicity." Doctoral Dissertation, I'Université de Lausanne, Institut des sciences et technologies de I'environnement, Lausanne, Switzerland, 2005. 263 pp; http://library.epfl.ch/theses/?nr=3280.

Tauxe-Wuersch A, De Alencastro LF, Grandjean D, and Tarradellas J. "Occurrence of several acidic drugs in sewage treatment plants in Switzerland and risk assessment." *Water Research* **2005**, *39*(9):1761-1772; doi:10.1016/j.watres.2005.03.003.

Tauxe-Wuersch A, de Alencastro LF, Grandjean D, and Tarradellas J. "Trace determination of tamoxifen and 5-fluorouracil in hospital and urban wastewaters." *International Journal of Environmental Analytical Chemistry* **2006**, *86*(7):473-485; doi:10.1080/03067310500291502.

Tay KS, Rahman NA, and Abas MRB. "Degradation of DEET by ozonation in aqueous solution." *Chemosphere* **2009**, *76*(9):1296-1302; doi:10.1016/j.chemosphere.2009.06.007.

Taylor D. "Editorial." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, February, 2007, 6 pp.

Taylor D. "Pharmaceuticals in the Environment: What is the Pharmaceutical Industry Doing?" presented at DIA 5th Canadian Annual Meeting, October, at Ottawa, Ontario, Canada, 2007.

Taylor D. "Sustainable Development & Production of Human Pharmaceuticals." in *A Healthy Future- Pharmaceuticals in a Sustainable Society*, collaborative publication of Apoteket AB, MistraPharma, and Stockholm County Council; Sweden, 2009, Chapter 3, pp 74-91; http://www.epa.gov/nerlesd1/bios/daughton/Pharmaceuticals-Sustainability-2009.pdf.

Taylor FO. "Forty-five years of manufacturing pharmacy." *Journal of the American Pharmaceutical Association* **1915**, *4*(4):468-481; doi:10.1002/jps.3080040412.

Taylor JR, Watson ID, Tames FJ, and Lowe D. "Detection of drug use in a methadone maintenance clinic: sweat patches versus urine testing." *Addiction* **1998**, *93*(6):847-853.

Tchakoute VL, Bronsvoort M, Tanya V, Renz A, and Trees AJ. "Chemoprophylaxis of Onchocerca infections: in a controlled, prospective study ivermectin prevents calves becoming infected with O-ochengi." *Parasitology* **1999**, *118*:195-199.

Tchernitchin AN and Tchernitchin N. "Imprinting of paths of heterodifferentiation by prenatal or neonatal exposure to hormones, pharmaceuticals, pollutants and other agents and conditions." *Medical Science Research* **2008**, *20*(11):391-397.

Tedesco L, Hall BE, Barr RC, Matzinger A, and Morel-Fatio A. "Verminderung des Eintrags von Schadstoffen aus ländlichen Einzugsgebieten als Schutzmaßnahme für Trinkwasserressourcen [AQUISAFE 1: Diffuse trace contaminants with relevance for drinking water production in rural and semi-rural areas]." Kompetenzzentrum Wasser Berlin gGmbH, Berlin, Germany, 2009, 41 pp; http://www.kompetenz-

wasser.de/index.php?id=383&type=0&jumpurl=fileadmin%2Fuser_upload%2Fpdf%2Fforschung%2FAquisafe%2FKWB_Aquisafe_D_1_1_Aug_2009.pdf.

Teeguarden JG, Dragan Y, and Pitot HC. "Hazard assessment of chemical carcinogens: the impact of hormesis." *Journal of Applied Toxicology* **2000**, *20*(2):113-120; doi:10.1002/(SICI)1099-1263(200003/04)20:2<113::AID-JAT641>3.0.CO;2-9.

Teeter JS and Meyerhoff RD. "Environmental fate and chemistry of raloxifene hydrochloride." *Environmental Toxicology and Chemistry* **2002**, *21*(4):729-736; doi:10.1897/1551-5028(2002)021<0729:EFACOR>2.0.CO;2.

Teeter JS and Meyerhoff RD. "Aerobic degradation of tylosin in cattle, chicken, and swine excreta." *Environmental Research* **2003**, *93*(1):45-51; doi:10.1016/S0013-9351(02)00086-5.

Teixidó E, Gómez-Catalán J, González-Linares J, Borràs M, and Llobet JM. "Evaluation of teratogenic effects produced by water samples from wastewater and drinking water treatment plants by zebrafish embryo test." *Reproductive Toxicology* **2009**, *28*(2):133-134; doi:10.1016/j.reprotox.2009.05.043.

Tekin H, Bilkay O, Ataberk SS, Balta TH, Ceribasi IH, Sanin FD*, et al.* "Use of Fenton oxidation to improve the biodegradability of a pharmaceutical wastewater." *Journal of Hazardous Materials* **2006**, *136*(2):258-265; doi:10.1016/j.jhazmat.2005.12.012.

Teleosis Institute. "Special Edition on Green Pharmacy: Preventing Pharmaceutical Pollution." *Symbiosis: The Journal of Ecologically Sustainable Medicine* **2007**, *4*(2):1-48.

Teleosis Institute. "The Green Pharmacy Program: Preliminary Data Report (Reflects data on medicines collected between June 1, 2007 and December 31, 2007)." Berkeley, CA, 2008, 3 pp; http://www.teleosis.org/pdf/GreenPharmacy_FullPreliminaryReport.pdf.

Teleosis Institute "Green Pharmacy Program." Web Page maintained by Teleosis Institute 2008, http://www.teleosis.org/gpp-program.php.

Teleosis Institute. "Drugs in our water." **2009**, 2 pp; http://www.teleosis.org/pdf/GreenPharmacyBrochure.pdf.

Teles M, Gravato C, Pacheco M, and Santos MA. "Juvenile sea bass biotransformation, genotoxic and endocrine responses to β-naphthoflavone, 4-nonylphenol and 17β-estradiol individual and combined exposures." *Chemosphere* **2004**, *57*(2):147-158; doi:10.1016/j.chemosphere.2004.02.023.

Teles M, Pacheco M, and Santos MA. "Sparus aurata L. liver EROD and GST activities, plasma cortisol, lactate, glucose and erythrocytic nuclear anomalies following short-term exposure either to 17β-estradiol (E_2) or E_2 combined with 4-nonylphenol." *Science of the Total Environment* **2005**, *336*(1-3):57-69; doi:10.1016/j.scitotenv.2004.05.004.

Teles M, Pacheco M, and Santos MA. "Biotransformation, stress and genotoxic effects of 17β-estradiol in juvenile sea bass (Dicentrarchus labrax L.)." *Environment International* **2006**, *32*(4):470-477; doi:10.1016/j.envint.2005.11.006.

Telscher MJH, Schuller U, Schmidt B, and Schäffer A. "Occurrence of a nitro metabolite of a defined nonylphenol isomer in soil/sewage sludge mixtures." *Environmental Science & Technology* **2005**, *39*(20):7896-7900; doi:10.1021/es050551v.

Temizsoy A, Cetin E, and Arayici S. "The effect of S sub(0)/X sub(0) ratio on inert COD fraction in pharmaceutical wastewaters under aerobic and anaerobic treatment." *Fresenius Environmental Bulletin* **2005**, *14*(6):463-467.

Templeton MR, Graham N, and Voulvoulis N. "Theme Issue 'Emerging chemical contaminants in water and wastewater' compiled and edited by Michael R. Templeton, Nigel Graham and Nick Voulvoulis." *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences* **2009**, *367*(1904):3873-3875; doi:10.1098/rsta.2009.0144.

Ten Eyck CH. "Evaluation of pharmaceutical fate in pilot and bench scale drinking water treatment plants." Masters Dissertation, 2005. 78 pp; http://gradworks.umi.com/14/26/1426188.html.

ter Laak TL, Gebbink WA, and Tolls J. "Estimation of soil sorption coefficients of veterinary pharmaceuticals from soil properties." *Environmental Toxicology and Chemistry* **2006**, *25*(4):933-941; doi:10.1897/05-229R.1.

ter Laak TL, Gebbink WA, and Tolls J. "The effect of pH and ionic strength on the sorption of sulfachloropyridazine, tylosin, and oxytetracycline to soil." *Environmental Toxicology and Chemistry* **2006**, *25*(4):904-911; doi:10.1897/05-232R.1.

Terasaki M, Kamata R, Shiraishi F, and Makino M. "Evaluation of estrogenic activity of parabens and their chlorinated derivatives by using the yeast two-hybrid assay and the enzyme-linked immunosorbent assay." *Environmental Toxicology and Chemistry* **2009**,

28(1):204-208; doi:10.1897/08-225.1.

Terasaki M and Makino M. "Disinfection By-Products of para-Hydroxybenzoate Esters (Parabens): Synthesis and Mass Spectrometric Study." *Journal of Health Science* **2009**, *55*(4):631-635; doi:10.1248/jhs.55.631.

Terasaki M, Makino M, and Tatarazako N. "Acute toxicity of parabens and their chlorinated by-products with <I>Daphnia magna</I> and <I>Vibrio fischeri</I> bioassays." *Journal of Applied Toxicology* **2009**, *29*(3):242-247; doi:10.1002/jat.1402.

Ternes T. "Pharmaceuticals and metabolites as contaminants of the aquatic environment." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 2, pp 39-54; doi:10.1021/bk-2001-0791.ch002; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Ternes T. "Vorkommen von Pharmaka in Gewässern." *Wasser und Boden [Wasser Boden]* **2001**, *53*(4):9-14.

Ternes T. "The occurrence of micopollutants [sic] in the aquatic environment: a new challenge for water management." *Water Science and Technology* **2007**, *55*(12):327-332; doi:10.2166/wst.2007.428.

Ternes T, Bonerz M, and Schmidt T. "Determination of neutral pharmaceuticals in wastewater and rivers by liquid chromatography-electrospray tandem mass spectrometry." *Journal of Chromatography A* **2001**, *938*(1-2):175-185; doi:10.1016/S0021-9673(01)01205-5.

Ternes T, Janex-Habibi M-L, Knacker T, Kreuzinger N, and Siegrist H. "Assessment of technologies for the removal of pharmaceuticals and personal care products in sewage and drinking water facilities to improve the indirect potable water reuse." in POSEIDON Project, August, 2004, 61 pp; http://poseidon.bafg.de/servlet/is/2888/Final-Report-POSEIDON-Feb_2005.pdf?command=downloadContent&filename=Final-Report-POSEIDON-Feb_2005.pdf
http://poseidon.bafg.de/servlet/is/2884/
http://poseidon.bafg.de/servlet/is/2888/.

Ternes T, Knacker T, and Oehlmann J. "Körperpflegemittel in der aquatischen Umwelt - Eine bisher vernachlässigte stoffgruppe

[Persconal [sic] care products in the aquatic environment - A group of substances which has been neglected to date]." *Umweltwissenschaften und Schadstoff-Forschung* **2003**, *15*(3):169-180; doi:10.1065/uwsf2002.06.034.

Ternes T, Kormos J, and Schulz M. "Occurrence and fate of pharmaceuticals in the environment." *Toxicology Letters* **2009**, *189*(Supplement 1):S33-S33; doi:10.1016/j.toxlet.2009.06.064.

Ternes T, Rombke J, Loffler D, and Meller M. "Behaviour of selected human and veterinary pharmaceuticals in aquatic compartments and soil." Environmental Research of the Federal Ministry of the Environment, Nature Conservation and Nuclear Safety, 299 67 401/01, 2005, 148 pp; http://bib1lp1.rz.tu-bs.de/docportal/servlets/MCRFileNodeServlet/DocPortal_derivate_00002658/Umweltbundesamt_Texte_05_05.pdf;jsessionid=0000iQnPjvFsgAdAkxYk5ELZdGd?hosts=local.

Ternes T and Wilken R-D. "Toxicology Letters (special issue devoted to musks in the environment)." *Toxicology Letters* **1999**, *111*(1-2):1-187.

Ternes TA. "Occurrence of drugs in German sewage treatment plants and rivers." *Water Research* **1998**, *32*(11):3245-3260; doi:10.1016/S0043-1354(98)00099-2.

Ternes TA. "Preface - Drugs and hormones as pollutants of the aquatic environment: determination and ecotoxicological impacts." *Science of the Total Environment* **1999**, *225*:1-2.

Ternes TA. "Analytical methods for the determination of pharmaceuticals in aqueous environmental samples." *Trends in Analytical Chemistry* **2001**, *20*(8):419-434; doi:10.1016/S0165-9936(01)00078-4.

Ternes TA. "Pharmaceutical pollutants." *Biofutur* **2001**, *216*:44-46.

Ternes TA. "EU-Project Poseidon: Assessment of technologies for the removal of pharmaceuticals and personal care products in sewage and drinking water facilities to improve the indirect potable water reuse." 2008, xxx pp;

http://poseidon.bafg.de/servlet/is/2884/.

Ternes TA, Andersen H, Gilberg D, and Bonerz M. "Determination of estrogens in sludge and sediments by liquid extraction and GC/MS/MS." *Analytical Chemistry* **2002**, *74*(14):3498-3504; doi:10.1021/ac015717z.

Ternes TA, Bonerz M, Herrmann N, Loffler D, Keller E, Lacida BB*, et al.* "Determination of pharmaceuticals, iodinated contrast media and musk fragrances in sludge by LC tandem MS and GC/MS." *Journal of Chromatography A* **2005**, *1067*(1-2):213-223; doi:10.1016/j.chroma.2004.10.096.

Ternes TA, Bonerz M, Herrmann N, Teiser B, and Andersen HR. "Irrigation of treated wastewater in Braunschweig, Germany: An option to remove pharmaceuticals and musk fragrances." *Chemosphere* **2007**, *66*(5):894-904; doi:10.1016/j.chemosphere.2006.06.035.

Ternes TA, Giger W, and Joss A. "Introduction." in *Human pharmaceuticals, hormones and fragrances: The challenge of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, UK, 2007, Chapter 1, pp 1-14; http://books.google.com/books?id=X9Sb4mVGF-oC&dq=Human+pharmaceuticals,+hormones+and+fragrances:++The+challenge+of+micropollutants+in+urban+water+management&printsec=frontcover&source=bn&hl=en&ei=DzGcSuP5NqWEmQeYscjABA&sa=X&oi=book_result&ct=result&resnum=4#v=onepage&q=&f=false.

Ternes TA, Hany J, Baumann W, and Nagel R. "Contributions to the analysis of organic xenobiotics in fish." *Fresenius Journal of Analytical Chemistry* **1995**, *351*(8):790-797; doi:10.1007/BF00323638.

Ternes TA, Herrmann N, Bonerz M, Knacker T, Siegrist H, and Joss A. "A rapid method to measure the solid-water distribution coefficient (K_d) for pharmaceuticals and musk fragrances in sewage sludge." *Water Research* **2004**, *38*(19):4075-4084; doi:10.1016/j.watres.2004.07.015.

Ternes TA and Hirsch R. "Occurrence and behavior of X-ray contrast media in sewage facilities and the aquatic environment." *Environmental Science & Technology* **2000**, *34*(13):2741-2748; doi:10.1021/es991118m.

Ternes TA, Hirsch R, Mueller J, and Haberer K. "Methods for the determination of neutral drugs as well as betablockers and β_2-sympathomimetics in aqueous matrices using GC/MS and LC/MS/MS." *Fresenius Journal of Analytical Chemistry* **1998**, *362*(3):329-340; doi:10.1007/s002160051083.

Ternes TA, Hirsch R, Stumpf M, Eggert T, Schuppert B, and Haberer K. "Nachweis und Screening von Arzneimittelrückständen, Diagnostika und Antiseptika in der aquatischen Umwelt Abschlussbericht [Identification and Screening of Pharmaceuticals, Diagnostics and Antiseptics in the Aquatic Environment Final report]." ESWE-Institut fuer Wasserforschung und Wassertechnologie G.m.b.H. Wiesbaden (Germany), 1999, http://opensigle.inist.fr/handle/10068/234444.

Ternes TA and Joss A, Eds., "Human pharmaceuticals, hormones and fragrances: The challenge of micropollutants in urban water management." IWA Publishing, London, UK, 2007, 468 pp; http://www.iwapublishing.com/template.cfm?name=isbn1843390930, http://www.iwapublishing.com/pdf/contents/isbn1843390930_contents.pdf.

Ternes TA and Joss A. "Conclusions and outlook." in *Human pharmaceuticals, hormones and fragrances: The challenge of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, UK, 2007, Chapter 10, pp 385-392; http://books.google.com/books?id=X9Sb4mVGF-oC&dq=Human+pharmaceuticals,+hormones+and+fragrances:++The+challenge+of+micropollutants+in+urban+water+management&printsec=frontcover&source=bn&hl=en&ei=DzGcSuP5NqWEmQeYscjABA&sa=X&oi=book_result&ct=result&resnum=4#v=onepage&q=&f=false.

Ternes TA, Joss A, and Siegrist H. "Scrutinizing pharmaceuticals and personal care products in wastewater treatment." *Environmental Science & Technology* **2004**, *38*(20):392A-399A; doi:10.1021/es040639t.

Ternes TA, Kreckel P, and Mueller J. "Behaviour and occurrence of estrogens in municipal sewage treatment plants -- II. Aerobic batch experiments with activated sludge." *Science of the Total Environment* **1999**, *225*(1-2):91-99; doi:10.1016/S0048-9697(98)00335-0.

Ternes TA, Kreuzinger N, and Lazarova V. "Indirect potable water reuse." in *Human pharmaceuticals, hormones and fragrances: The challenge of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, UK, 2007, Chapter 8, pp 293-322; http://books.google.com/books?id=X9Sb4mVGF-oC&dq=Human+pharmaceuticals,+hormones+and+fragrances:++The+challenge+of+micropollutants+in+urban+water+management&printsec=frontcover&source=bn&hl=en&ei=DzGcSuP5NqWEmQeYscjABA&sa=X&oi=book_result&ct=result&resnum=4#v=onepage&q=&f=false.

Ternes TA, Meisenheimer M, McDowell D, Sacher F, Brauch HJ, Gulde BH*, et al.* "Removal of pharmaceuticals during drinking water treatment." *Environmental Science & Technology* **2002**, *36*(17):3855-3863; doi:10.1021/es015757k.

Ternes TA, Stuber J, Herrmann N, McDowell D, Ried A, Kampmann M*, et al.* "Ozonation: a tool for removal of pharmaceuticals, contrast media and musk fragrances from wastewater?" *Water Research* **2003**, *37*(8):1976-1982; doi:10.1016/S0043-1354(02)00570-5.

Ternes TA, Stumpf M, Mueller J, Haberer K, Wilken R-D, and Servos M. "Behaviour and occurrence of estrogens in municipal sewage treatment plants -- I. Investigations in Germany, Canada and Brazil." *Science of the Total Environment* **1999**, *225*(1-2):81-90; doi:10.1016/S0048-9697(98)00334-9.

Ternes TA, Stumpf M, Schuppert B, and Haberer K. "Simultaneous Determination of antiseptics and acidic drugs in sewage and river." *Vom Wasser* **1998**, *90*:295-309.

Ternes TA and Wilken R-D. "Drugs and Hormones as Pollutants of the Aquatic Environment: Determination and Ecotoxicological Impacts." *Science of the Total Environment* **1999**, *225*(1-2):1-176.

Tertuliani JS, Alvarez DA, Furlong ET, Meyer MT, Zaugg SD, and Koltun GF. "Occurrence of Organic Wastewater Compounds in the Tinkers Creek Watershed and Two Other Tributaries to the Cuyahoga River, Northeast Ohio." USGS, 2008-5173, US Geological Survey, 2008. http://pubs.usgs.gov/sir/2008/5173/pdf/sir20085173.pdf.

Terzic S, Senta I, Ahel M, Gros M, Petrovic M, Barcelo D*, et al.* "Occurrence and fate of emerging wastewater contaminants in Western Balkan Region." *Science of the Total Environment* **2008**, *399*(1-3):66-77; doi:10.1016/j.scitotenv.2008.03.003.

Teske J, Weller JP, Larsch K, Troger HD, and Karst M. "Fatal outcome in a child after ingestion of a transdermal fentanyl patch." *International Journal of Legal Medicine* **2007**, *121*(2):147-151; doi:10.1007/s00414-006-0137-3.

Testorf MF, Kronstrand R, Svensson SPS, Lundström I, and Ahlner J. "Characterization of [^{3}H]Flunitrazepam Binding to Melanin." *Analytical Biochemistry* **2001**, *298*(2):259-264; doi:10.1006/abio.2001.5364.

Tettenborn F, Behrendt J, and Otterpohl R. "Exemplary Treatment Processes For Yellow Water - Nutrients and Pharmaceutical Residues." in IWA World Water Congress and Exhibition, IWA, 2006, 3 pp; http://www.tu-harburg.de/aww/publikationen/pdf/TETE06B.pdf.

Tettenborn F, Behrendt J, and Otterpohl R. "Resource recovery and removal of pharmaceutical residues - Treatment of separate collected urine. Final report for task 7 of the demonstration project "Sanitation Concepts for Separate Treatment of Urine, Faeces and Greywater " (SCST)." Institute of Wastewater Management and Water Protection, Hamburg University of Technology, March, 2007, 129 pp; http://www.tu-harburg.de/aww/publikationen/pdf/endbericht_tutech151009.pdf.

Tettenborn F, Behrendt J, and Otterpohl R. "Resource recovery and removal of pharmaceutical residues - Treatment of separate collected urine. Final report for task 7 of the demonstration project “Sanitation Concepts for Separate Treatment of Urine, Faeces and Greywater“ (SCST)." Institute of Wastewater Management and Water Protection, Hamburg University of Technology, March, 2007, 129 pp; http://www.tu-harburg.de/aww/publikationen/pdf/endbericht_tutech151009.pdf.

Tettenborn F, Behrendt J, and Otterpohl R. "Pharmaceutical residues in source separated urine and their fate during nutrient-recovery processes." in IWA World Water Congress and Exhibition, Vienna, Austria, IWA, 2008, 7 pp; http://www.tu-harburg.de/aww/publikationen/pdf/TETT08A.pdf.

Thain JE, Davies IM, Rae GH, and Allen YT. "Acute toxicity of ivermectin to the lugworm Arenicola marina." *Aquaculture* **1997**, *159*(1-2):47-52; doi:10.1016/S0044-8486(97)00210-X.

Thanasawasdi H, Leckie J, and Mill T. "Photocatalytic oxidation of pharmaceutical compounds: Kinetics and pathways for ibuprofen, clofibric acid, diclofenac and naproxen." *Journal of Advanced Oxidation Technologies* **2007**, *10*(2):342-348.

Thanasawasdi HT. "Photocatalytic oxidation of emerging contaminants: Kinetics and pathways for photocatalytic oxidation of pharmaceutical compounds." Doctoral Dissertation, Stanford University, Palo Alto, CA, 2007. 118 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2209058,FM=9,SEARCH=MD.GenericSearch.

Tharp AM, Winecker RE, and Winston DC. "Fatal intravenous fentanyl abuse: four cases involving extraction of fentanyl from transdermal patches." *American Journal of Forensic Medicine and Pathology* **2004**, *25*(2):178-181.

Thayer AM. "AG Biotech food: Risky or risk free?" *Chemical & Engineering News* **1999**, *77*(44):11-20.

Thayer AM. "Deciphering diseases." *Chemical & Engineering News* **1999**, *77*(35):19-28.

Thayer AM. "Eli Lilly Pulls The Plug On Prozac Isomer Drug." *Chemical & Engineering News* **2000**, *78*(44):8.

Thayer AM. "Filling A Highly Potent Niche: Drug companies want to create conjugates of potent drugs and biological molecules, and custom manufacturers are complying." *Chemical & Engineering News* **2008**, *86*(24):28-32.

Thayer KA, Melnick R, Burns K, Davis D, and Huff J. "Fundamental flaws of hormesis for public health decisions." *Environmental Health Perspectives* **2005**, *113*(10):1271-1276; doi:10.1289/ehp.7811.

Thaysen JH and Schwartz IL. "The permeability of human sweat glands to a series of sulfonamide compounds." *Journal of Experimental Medicine* **1953**, *98*(3):261-268; doi:10.1084/jem.98.3.261.

The Associated Press. "Millions skip meds, don't take pills correctly - Half of patients with chronic illnesses skip doses, study finds." MSNBC, 2007, Associated Press, http://www.msnbc.msn.com/id/20039597/.

The Center for Food Safety "Center for Food Safety." 2008, http://www.centerforfoodsafety.org/sewage_slu.cfm.

The Center for Health Design, Health Care Without Harm, and Robert Wood Johnson Foundation. "Designing the 21st Century Hospital: Environmental Leadership for Healthier Patients and Facilities." September, 2006; http://www.premierinc.com/quality-safety/tools-services/safety/topics/construction/downloads/designing-21st-century-hospital-2006.pdf.

The Endocrine Society. "Endocrine-Disrupting Chemicals: An Endocrine Society Scientific Statement." The Endocrine Society, 2009, 56 pp; http://www.endo-society.org/journals/ScientificStatements/upload/EDC_Scientific_Statement.pdf.

The Groundwater Foundation "Pharmaceutical and Personal Care Products in Drinking Water Supplies." 2009, http://www.groundwater.org/gi/ppcp_about.html.

The Groundwater Foundation "Pharmaceuticals and Personal Care Products (PPCPs): An Emerging Issue." 2009, http://www.groundwater.org/gi/docs_pack/fa13.pdf.

The Health Strategies Consultancy LLC. "Follow The Pill: Understanding the U.S. Commercial Pharmaceutical Supply Chain." The Henry H. Kaiser Family Foundation, Pubalication #7296, Menlo Park, CA, March, 2005, 32 pp; http://www.kff.org/rxdrugs/7296.cfm.

The National Advisory Council for Environmental Policy and Technology N. "Everyone's Business: Working Towards Sustainability Through Environmental Stewardship and Collaboration." EPA 130-K-08-001, March 2008. 68 pp; http://www.epa.gov/ocem/nacept/reports/pdf/2008-0328-everyones-business-final.pdf.

The Office of the Secretary of Defense. "Report to Congress: Control of the Brown Tree Snake (BTS)." US Department of Defense, August, 2008, 12 pp; http://www.afpmb.org/docs/bts/TAB%20B%20BTS%20REPORT%20TO%20CONGRESS%20Aug%20FINAL.pdf.

The Oregon Association of Clean Water Agencies. "OREGON Pharmaceutical Take Back Stakeholder Group." Portland, Oregon, March, 2008, 2 pp; http://www.oracwa.org/downloads/drugtakeback-execsum_0907.pdf?PHPSESSID=c0c9fcb7f4725d44923ec5c6 Complete report available at www.oracwa.org.

The Partnership for a Drug Free New Jersey "Operation Medicine Cabinet New Jersey." 2009, http://www.operationmedicinecabinetnj.com/.

The Water Resource Center. 2009, "U of Minnesota Three-State Survey Finds U.S. Households Flushing More Organic Material Than Expected Down the Drain." University of Minnesota, 1 pp; http://www1.umn.edu/news/news-releases/2009/UR_CONTENT_118942.html.

Theunis L, van Niusy ALN, Pecceu B, Dubois N, Jorens PG, Bervoets L*, et al.* "Cocaïne dans nos rivières: une approche méthodologique originale dans ledomaine de la toxicologie environnementale [Cocaine in rivers: a methodological approach in the original field of environmental toxicology]." *Revue Medicale de Liege* **2008**, *63*:39-43.

Thevis M, Kuuranne T, Geyer H, and Schänzer W. "Annual banned-substance review: the Prohibited List 2008 – analytical approaches in human sports drug testing." *Drug Testing and Analysis* **2008**, *1*:4-13; doi:10.1002/dta.9.

Thibaut R and Porte C. "Effects of Fibrates, Anti-inflammatory Drugs and Antidepressants in the Fish Hepatoma Cell Line PLHC-1: Cytotoxicity and Interactions with Cytochrome P450 1A." *Toxicology In Vitro* **2008**, *22*(5):1128-1135; doi:10.1016/j.tiv.2008.02.020.

Thibaut R, Schnell S, and Porte C. "The Interference of Pharmaceuticals with Endogenous and Xenobiotic Metabolizing Enzymes in Carp Liver: An In-Vitro Study." *Environmental Science & Technology* **2006**, *40*(16):5154-5160.

Thiele S. "Adsorption of the antibiotic pharmaceutical compound sulfapyridine by a long-term differently fertilized loess Chernozem." *Journal of Plant Nutrition and Soil Science [Zeitschrift Fur Pflanzenernahrung und Bodenkunde]* **2000**, *163*(6):589-594; doi:10.1002/1522-2624(200012)163:6<589::AID-JPLN589>3.0.CO;2-5.

Thiele-Bruhn S. "Pharmaceutical antibiotic compounds in soils - a review." *Journal of Plant Nutrition and Soil Science [Zeitschrift Fur Pflanzenernahrung und Bodenkunde]* **2003**, *166*(2):145-167; doi:10.1002/jpln.200390023.

Thiele-Bruhn S. "Microbial inhibition by pharmaceutical antibiotics in different soils—dose-response relations determined with the iron (III) reduction test." *Environmental Toxicology and Chemistry* **2005**, *24*(4):869-876; doi:10.1897/04-166R.1.

Thiele-Bruhn S and Aust MO. "Effects of pig slurry on the sorption of sulfonamide antibiotics in soil." *Archives of Environmental Contamination and Toxicology* **2004**, *47*(1):31-39; doi:10.1007/s00244-003-3120-8.

Thiele-Bruhn S and Beck I-C. "Effects of sulfonamide and tetracycline antibiotics on soil microbial activity and microbial biomass." *Chemosphere* **2005**, *59*(4):457-465; doi:10.1016/j.chemosphere.2005.01.023.

Thiele-Bruhn S, Mogk A, and Freitag D. "Consumption of medicinal substancesfor [sic-substances for] the medication of live-stock in Mecklenburg-Western Pomerania." *Berichte Uber Landwirtschaft* **2003**, *81*(3):374-391.

Thiele-Bruhn S and Peters D. "Photodegradation of pharmaceutical antibiotics on slurry and soil surfaces." *Lanbauforschung Volkenrode* **2007**, *57*(1):13-23.

Thiele-Bruhn S, Seibicke T, Schulten HR, and Leinweber P. "Sorption of sulfonamide pharmaceutical antibiotics on whole soils and particle-size fractions." *Journal of Environmental Quality* **2004**, *33*(4):1331-1342.

Thilagam H, Gopalakrishnan S, Bo J, and Wang K-J. "Effect of 17β-estradiol on the immunocompetence of Japanese sea bass (lateolabrax japonicus)." *Environmental Toxicology and Chemistry* **2009**, *28*(8):1722-1731; doi:10.1897/08-642.1.

Thill A, Zeyons O, Spalla O, Ghauvat F, Rose J, Auffan M*, et al.* "Cytotoxicity of CeO_2 Nanoparticles for Escherichia coli. Physico-Chemical Insight of the Cytotoxicity Mechanism." *Environmental Science & Technology* **2006**, *40*(19):6151-6156; doi:10.1021/es060999b.

Thoeodore MG. "Hybrid chemical/mechanical dewatering method and apparatus for inactivating and removing pharmaceuticals and other contaminants from wastewater." **2008**, (20080314827) http://www.freshpatents.com/-dt20081225ptan20080314827.php.

Thomas JA. "Drugs and chemicals that affect the endocrine system." *International Journal of Toxicology* **1998**, *17*(2):129-138.

Thomas KV. "Occurrence of Selected Pharmaceuticals in Wastewater Effluents from Hospitals (UllevDl and Rikshospitalet) and VEAS Wastewater Treatment Works." Docket EPA-HQ-OW-2006-0771, DCN 05475, Oslo, Norway, March, 2007.

Thomas KV "DrugMon: A biomarker–based tool to monitor community drug use and abuse in Norway: Monitoring of substances of abuse in wastewater effluents." Web Page maintained by NIVA Norwegian Institute for Water Research 2009, http://www.niva.no/symfoni/infoportal/publikasjon.nsf/URLEnginter/C254D4190F004E10C12574CE0021741B?OpenDocument.

Thomas KV, Dye C, Schlabach M, and Langford KH. "Source to sink tracking of selected human pharmaceuticals from two Oslo city hospitals and a wastewater treatment works." *Journal of Environmental Monitoring* **2007**, *9*(12):1410-1418; doi:10.1039/b709745j.

Thomas KV and Hilton MJ. "The occurrence of selected human pharmaceutical compounds in UK estuaries." *Marine Pollution Bulletin* **2004**, *49*(5-6):436-444; doi:10.1016/j.marpolbul.2004.02.028.

Thomas KV, Hurst MR, Matthiessen P, McHugh M, Smith A, and Waldock MJ. "An assessment of in vitro androgenic activity and the identification of environmental androgens in United Kingdom estuaries." *Environmental Toxicology and Chemistry* **2002**, *21*(7):1456-1461; doi:10.1897/1551-5028(2002)021.

Thomas KV, Hurst MR, Matthiessen P, and Waldock MJ. "Characterization of estrogenic compounds in water samples collected from

united kingdom estuaries." *Environmental Toxicology and Chemistry* **2001**, *20*(10):2165-2170; doi:10.1897/1551-5028(2001)020.

Thomas KV and Langford K. "Occurrence of pharmaceuticals in the aqueous environment." in *Analysis, Fate and Removal of Pharmaceuticals in the Water Cycle*, Petrovic M and Barcelo D, Eds., Elsevier Science; 2007, Chapter 3.1, pp 337-359; http://www.elsevier.com/wps/find/bookdescription.cws_home/712147/description#description.

Thomas PM and Foster GD. "Determination of nonsteroidal anti-inflammatory drugs, caffeine, and triclosan in wastewater by gas chromatography-mass spectrometry." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2004**, *39*(8):1969-1978; doi:10.1081/ESE-120039368.

Thomas PM and Foster GD. "Tracking acidic pharmaceuticals, caffeine, and triclosan through the wastewater treatment process." *Environmental Toxicology and Chemistry* **2005**, *24*(1):25-30; doi:10.1897/04-144R.1.

Thomas Reid Associates. "Santa Clara Valley Water District Stream Flow Augmentation Project: Upper Silver Creek and Coyote Creek Initial Study/Mitigated Negative Declaration." San Jose, CA, June (Draft), 2006, http://www.valleywater.org/website/media/pdf/Streamflow%20AugmentationDraft%20IS%20MND.pdf.

Thomas S "Neurotransmitter.net." 2008; http://neurotransmitter.net/.

Thomas SM. "Fate of emerging contaminants in a wastewater treatment plant." Doctoral Dissertation, University of Texas at San Antonio, San Antonio, TX, 2007. 113 pp.

Thomas-Jones E, Thorpe K, Harrison N, Thomas G, Morris C, Hutchinson T*, et al.* "Dynamics of estrogen biomarker responses in rainbow trout exposed to 17β-estradiol and 17α-ethinylestradiol." *Environmental Toxicology and Chemistry* **2003**, *22*(12):3001-3008; doi:10.1897/03-31.

Thompson A. "The fate and removal of pharmaceuticals during sewage treatment." Doctoral Dissertation, Cranfield University, Department of Water Sciences, School of Applied Sciences, 2005. 296 pp; http://hdl.handle.net/1826/1571.

Thompson A, Griffin P, Stuetz R, and E. C. "The fate and removal of triclosan during wastewater treatment." *Water Environment Research* **2005**, *77*(1):63-67; doi:10.2175/106143005X41636.

Thompson B, Adelsbach T, Brown C, Hunt J, Kuwabara J, Neale J*, et al.* "Biological effects of anthropogenic contaminants in the San Francisco Estuary." *Environmental Research* **2007**, *105*(1):156-174; doi:10.1016/j.envres.2006.10.005.

Thompson BM. "Ethical strategies that make "good" business sense: Direct-to-consumer advertising of prescription products." Masters Dissertation, Clemson, 2007. 1143 pp.

Thompson ML, Casey FXM, Khan E, Hakk H, Larsen GL, and DeSutter T. "Occurrence and pathways of manure-borne β-estradiol in vadose zone water." *Chemosphere* **2009**, *76*(4):472-479; doi:10.1016/j.chemosphere.2009.03.037.

Thompson RD. "Determination of phenolic disinfectant agents in commercial formulations by liquid chromatography." *Journal of AOAC International* **2001**, *84*:815-822.

Thompson S. "Physiological indicators of endocrine disruptor exposure in Japanese medaka (Oryzias latipes): Relationship to reproduction and development." Masters Dissertation, University of Mississippi, Mississippi, MS, 2000.

Thompson SA, Maani EV, Lindell AH, King CJ, and McArthur JV. "Novel Tetracycline Resistance Determinant Isolated from an Environmental Strain of Serratia marcescens." *Applied and Environmental Microbiology* **2007**, *73*(7):2199-2206; doi:10.1128/aem.02511-06.

Thompson TS, Noot DK, Forrest F, van den Heever JP, Kendall J, and Keenliside J. "Large volume injection for the direct analysis of ionophores and avermectins in surface water by liquid chromatography-electrospray ionization tandem mass spectrometry." *Analytica Chimica Acta* **2009**, *633*(1):127-135; doi:10.1016/j.aca.2008.11.024.

Thomson Reuters "POISINDEX® System." 2009; http://www.micromedex.com/products/poisindex/.

Thorne PS. "Environmental health impacts of concentrated animal feeding operations: Anticipating hazards - Searching for solutions." *Environmental Health Perspectives* **2007**, *115*(2):296-297.

Thornton J. "Beyond risk: An ecological paradigm to prevent global chemical pollution." *International Journal of Occupational and Environmental Health* **2000**, *6*(4):318-330.

Thorpe K, Benstead R, Eccles P, Maack G, Williams T, and Tyler C. "A practicable laboratory flow-through exposure system for assessing the health effects of effluents in fish." *Aquatic Toxicology* **2008**, *88*(3):164-172; doi:10.1016/j.aquatox.2008.04.005.

Thorpe K, Hetheridge M, Hutchinson TH, Scholze M, Sumpter JP, and Tyler CR. "Assessing the interactive effects of binary mixtures of environmental oestrogens in rainbow trout (*Oncorhynchus mykiss*) using vitellogenin induction." *Environmental Science & Technology* **2001**, *35*(12):2476-2481.

Thorpe KL, Cummings RI, Hutchinson TH, Scholze M, Brighty G, Sumpter JP*, et al.* "Relative potencies and combination effects of steroidal estrogens in fish." *Environmental Science & Technology* **2003**, *37*(6):1142-1149; doi:10.1021/es0201348.

Thorpe KL, Gross-Sorokin M, Johnson I, Brighty G, and Tyler CR. "An assessment of the model of concentration addition for predicting the estrogenic activity of chemical mixtures in wastewater treatment works effluents." *Environmental Health Perspectives* **2006**, *114*(S-1):90-97; doi:10.1289/ehp.8059.

Thorpe KL, Hutchinson TH, Hetheridge MJ, Sumpter JP, and Tyler CR. "Development of an in vivo screening assay for estrogenic chemicals using juvenile rainbow trout (oncorhynchus mykiss)." *Environmental Toxicology and Chemistry* **2000**, *19*(11):2812-2820; doi:10.1897/1551-5028(2000)019<2812:DOAIVS>2.0.CO;2.

Thorpe KL, Maack G, Benstead R, and Tyler CR. "Estrogenic Wastewater Treatment Works Effluents Reduce Egg Production in Fish." *Environmental Science & Technology* **2009**, *43*(8):2976-2982; doi:10.1021/es803103c.

Thorrold CA, Letsoalo ME, Dusé AG, and Marais E. "Efflux pump activity in fluoroquinolone and tetracycline resistant Salmonella and E. coli implicated in reduced susceptibility to household antimicrobial cleaning agents." *International Journal of Food Microbiology* **2007**, *113*(3):315-320; doi:10.1016/j.ijfoodmicro.2006.08.008.

Thurman EM, Dietze JE, and Scribner EA. "Occurrence of Antibiotics in Water from Fish Hatcheries." Survey UG, USGS Fact Sheet 120–02, USGS, November 2002. 4 pp; http://walrus.wr.usgs.gov/infobank/programs/html/factsheets/pdfs/2002_0120_FS.pdf.

Thurman EM and Ferrer I. "Comparison of quadrupole time-of-flight, triple quadrupole, and ion-trap mass spectrometry/mass spectrometry for the analysis of emerging contaminants." US Geological Survey, 2003. 14-31 pp.

Thurman EM, Ferrer I, Benotti M, and Heine CE. "Intramolecular isobaric fragmentation: A curiosity of accurate mass analysis of sulfadimethoxine in pond water." *Analytical Chemistry* **2004**, *76*(5):1228-1235; doi:10.1021/ac035094k.

Tickner J, Raffensperger C, and Myers N. "The precautionary principle in action: A handbook." Science and Environmental Health Network, Windsor, ND, 1999, 23 pp; http://www.mindfully.org/Precaution/Precaution-In-Action-Handbook.htm or http://www.biotech-info.net/handbook.pdf.

Tiemann M. 2008, "Safe Drinking Water Act (SDWA): Selected Regulatory and Legislative Issues." Congressional Research Service, 27 pp; http://assets.opencrs.com/rpts/RL34201_20081126.pdf, http://wikileaks.org/leak/crs/RL34201.pdf.

Tierney KB, Sampson JL, Ross PS, Sekela MA, and Kennedy CJ. "Salmon Olfaction is Impaired by an Environmentally Realistic Pesticide Mixture." *Environmental Science & Technology* **2008**, *42*(13):4996-5001; doi:10.1021/es800240u

Tilburt JC, Emanuel EJ, Kaptchuk TJ, Curlin FA, and Miller FG. "Prescribing "placebo treatments": results of national survey of US internists and rheumatologists." *British Medical Journal* **2008**, *337*(2):a1938-1942; doi:10.1136/bmj.a1938.

Tilghman A, Coquery M, Dulio V, and Garric J. "Integrated chemical and biomonitoring strategies for risk assessment of emerging substances: Report on the 4th thematic workshop of the EU Project NORMAN, Lyon, France, 17-18 March 2008." *Trends in Analytical Chemistry* **2009**, *28*(1):1-9; doi:10.1016/j.trac.2008.11.002.

Till AE. "Comment on 'Pharmaceuticals, hormones, and other organic wastewater contaminants in U.S. Streams, 1999-2000: a national reconnaissance'." *Environmental Science & Technology* **2003**, *37*(5):1052-1053; author reply 1054.

Till AE. "The detection of pharmaceutical compounds in surface water is a matter of significant interest to the pharmaceutical industry." *Science of the Total Environment* **2005**, *350*(1-3):273-275; doi:10.1016/j.scitotenv.2005.04.005.

Till AE. "Pharmaceutical data do not elude researchers." *Environmental Science & Technology* **2005**, *39*(19):392A; author reply 392A; doi:10.1021/es053361t.

Tillett T. "Getting Straight on What's Flushed "Sewage Epidemiology" Measures Community Drug Consumption." *Environmental Health Perspectives* **2008**, *116*(8):A351.

Tillett T. "Meeting report: summit focuses on pharmaceuticals in drinking water." *Environmental Health Perspectives* **2009**, *117*(1):A16.

Tilton F, Benson WH, and Schlenk D. "Elevation of serum 17-β-estradiol in channel catfish following injection of 17-β-estradiol, ethynyl estradiol, estrone, estriol and estradiol-17-β-glucuronide." *Environmental Toxicology and Pharmacology* **2001**, *9*(4):169-172; doi:10.1016/S1382-6689(01)00062-X.

Tilton F, Benson WH, and Schlenk D. "Evaluation of estrogenic activity from a municipal wastewater treatment plant with predominantly domestic input." *Aquatic Toxicology* **2002**, *61*(3-4):211-224; doi:10.1016/S0166-445X(02)00058-9.

Tilton SC, Foran CM, and Benson WH. "Relationship between ethinylestradiol-mediated changes in endocrine function and reproductive impairment in Japanese medaka (Oryzias latipes)." *Environmental Toxicology and Chemistry* **2005**, *24*(2):352-359; doi:10.1897/04-016R.1.

Timón Andrada R, Maynar Mariño M, Muñoz Marín D, Olcina Camacho G, Caballero M, and Maynar Mariño J. "Variations in urine excretion of steroid hormones after an acute session and after a 4-week programme of strength training." *European Journal of Applied Physiology* **2007**, *99*(1):65-71.

Tinetti ME. "Over-the-Counter Sales of Statins and Other Drugs for Asymptomatic Conditions." *New England Journal of Medicine* **2008**, *358*(25):2728-2732; doi:10.1056/NEJMsb0801202.

Tintinalli JE, Kelen GD, Stapczynski JS, Ma OJ, and Cline DM, Eds., "Tintinalli's Emergency Medicine: A Comprehensive Study Guide." 6th ed.; McGraw-Hill Professional, 2003; http://www.accessmedicine.com/resourceToc.aspx?resourceID=40.

Tinwell H, Lefevre PA, Moffat GJ, Burns A, Odum J, Spurway TD*, et al.* "Confirmation of uterotrophic activity of 3-(4-methylbenzylidine)camphor in the immature rat." *Environmental Health Perspectives* **2002**, *110*(5):533-536.

Tipparat P, Lapanantnoppakhun S, Jakmunee J, and Grudpan K. "Determination of diphenhydramine hydrochloride in some single tertiary alkylamine pharmaceutical preparations by flow injection spectrophotometry." *Journal of Pharmaceutical and Biomedical Analysis* **2002**, *30*(1):105-112; doi:10.1016/S0731-7085(02)00197-8.

Tischler/Kocurek. "Potential Contribution of Unused Medicines to Environmental Concentrations of Pharmaceuticals." Pharmaceutical Research and Manufacturers of America, EPA-HQ-OW-2006-0771-0851.2, Washington, DC, September, 2007, 63 pp.

Tisi D. "The Taste of Success: Choose your drug flavor carefully to improve patient compliance." *Pharmaceutical Formulation & Quality* **2009**, *April/May*.

Tisler T and Erzen NK. "Abamectin in the aquatic environment." *Ecotoxicology* **2006**, *15*(6):495-502.

Tittlemier SA, Van de Riet J, Burns G, Potter R, Murphy C, Rourke W*, et al.* "Analysis of veterinary drug residues in fish and shrimp composites collected during the Canadian Total Diet Study, 1993-2004." *Food Additives and Contaminants* **2007**, *24*(1):14-20; doi:10.1080/02652030600932937.

Titz A and Döll P. "Actor modelling and its contribution to the development of integrative strategies for management of pharmaceuticals in drinking water." *Social Science and Medicine* **2009**, *68*(4):672-681; doi:10.1016/j.socscimed.2008.11.031.

Tixier C, Singer HP, Canonica S, and Muller SR. "Phototransformation of Triclosan in Surface Waters: A Relevant Elimination Process for This Widely Used Biocide-Laboratory Studies, Field Measurements, and Modeling." *Environmental Science & Technology* **2002**, *36*(16):3482-3489; doi:10.1021/es025647t.

Tixier C, Singer HP, Oellers S, and Muller SR. "Occurrence and Fate of Carbamazepine, Clofibric Acid, Diclofenac, Ibuprofen, Ketoprofen, and Naproxen in Surface Waters." *Environmental Science & Technology* **2003**, *37*(6):1061-1068; doi:10.1021/es025834r.

Tkatcheva V, Franklin N, McClelland G, Smith R, Holopainen I, and Wood C. "Physiological and Biochemical Effects of Lithium in Rainbow Trout." *Archives of Environmental Contamination and Toxicology* **2007**, *53*(4):632-638; doi:10.1007/s00244-006-0173-5.

Tluczkiewicz I, Bitsch A, Hahn S, and Hahn T. "Emission of biocides from hospitals - comparing current survey results with EU default values." *Integrated Environmental Assessment and Management* **2009**, *In press*; doi:10.1897/IEAM_2009-046.1.

Tlusty M, Bengtson D, Halvorson HO, Oktay S, Pearce J, and Rheault RB. "Marine Aquaculture and the Environment: A Meeting for Stakeholders in the Northeast." in Marine Aquaculture and the Environment: A Meeting for Stakeholders in the Northeast, Boston, MA, Cape Cod Press, 11-13 January, 2001, 342 pp; http://www.onefish.org/cds_upload/1115650347615_Tlusty_et_al_2001_aquaculture_stakeholder_meeting.pdf#page=183.

Tobin DJ. "Biochemistry of human skin-our brain on the outside." *Chemical Society Reviews* **2006**, *35*:52-67; doi:10.1039/b505793k.

Todorov JR, Elskus AA, Schlenk D, Lee Ferguson P, Brownawell BJ, and McElroy AE. "Estrogenic responses of larval sunshine bass (Morone saxatilis × M. Chrysops) exposed to New York city sewage effluent." *Marine Environmental Research* **2002**, *54*(3-5):691-695; doi:10.1016/S0141-1136(02)00197-6.

Toft G and Baatrup E. "Sexual Characteristics Are Altered by 4-tert-Octylphenol and 17β-estradiol in the Adult Male Guppy (Poecilia reticulata)." *Ecotoxicology and Environmental Safety* **2001**, *48*(1):76-84; doi:10.1006/eesa.2000.1985.

Toft G and Baatrup E. "Altered sexual characteristics in guppies (Poecilia reticulata) exposed to 17β-estradiol and 4-tert-octylphenol during sexual development." *Ecotoxicology and Environmental Safety* **2003**, *56*(2):228-237.

Toft G, Edwards TM, Baatrup E, and Guillette LJ, Jr. "Disturbed sexual characteristics in male mosquitofish (Gambusia holbrooki) from a lake contaminated with endocrine disruptors." *Environmental Health Perspectives* **2003**, *111*(5):695-701.

Togola A and Budzinski H. "Analytical development for analysis of pharmaceuticals in water samples by SPE and GC-MS." *Analytical and Bioanalytical Chemistry* **2007**, *388*(3):627-635; doi:10.1007/s00216-007-1251-x.

Togola A and Budzinski H. "Development of Polar Organic Integrative Samplers for Analysis of Pharmaceuticals in Aquatic Systems." *Analytical Chemistry* **2007**, *79*(17):6734-6741; doi:10.1021/ac070559i.

Togola A and Budzinski H. "Multi-residue analysis of pharmaceutical compounds in aqueous samples." *Journal of Chromatography A* **2008**, *1177*(1):150-158; doi:10.1016/j.chroma.2007.10.105.

Tokumoto T, Tokumoto M, Horiguchi R, Ishikawa K, and Nagahama Y. "Diethylstilbestrol induces fish oocyte maturation." *Proceedings of the National Academy of Sciences of the United States of America* **2004**, *101*(10):3686-3690; doi:10.1073/pnas.0400072101.

Tollefsen KE. "Interaction of estrogen mimics, singly and in combination, with plasma sex steroid-binding proteins in rainbow trout (Oncorhynchus mykiss)." *Aquatic Toxicology* **2002**, *56*(3):215-225; doi:10.1016/S0166-445X(01)00154-0.

Tollefsen K-E, meys JFA, Frydenlund J, and Stenersen J. "Environmental estrogens interact with and modulate the properties of plasma sex steroid-binding proteins in juvenile Atlantic salmon (Salmo salar)." *Marine Environmental Research* **2002**, *54*(3-5):697-701; doi:10.1016/S0141-1136(02)00173-3.

Tollefson J. "Raking through sludge exposes a stink." *Nature* **2008**, *453*:262-263.

Tolls J. "Sorption of veterinary pharmaceuticals in soils: A review." *Environmental Science & Technology* **2001**, *35*(17):3397-3406; doi:10.1021/es0003021.

Tolls J, Berger H, Klenk A, Meyberg M, Müller R, Rettinger K*, et al.* "Environmental safety aspects of personal care products - A European perspective." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2485-2489; doi:10.1897/09-104.1.

Tolls J, Müller M, Willing A, and Steber J. "A new concept for the environmental risk assessment of poorly water-soluble compounds and its application to consumer products." *Integrated Environmental Assessment and Management* **2009**, *5*(3):374-378; doi:10.1897/IEAM_2008-067.1.

Tolstikova T, Tolstikov A, and Tolstikov G. "On the way to low-dose medicines." *Herald of the Russian Academy of Sciences* **2007**, *77*(5):447-453; doi:10.1134/S1019331607050012.

Tominaga N, Ura K, Kawakami M, Kawaguchi T, Kohra S, Mitsui Y*, et al.* "Caenorhabditis elegans Responses to Specific Steroid Hormones." *Journal of Health Science* **2003**, *49*(1):28-33.

Tong L, Li P, Wang Y, and Zhu K. "Analysis of veterinary antibiotic residues in swine wastewater and environmental water samples using optimized SPE-LC/MS/MS." *Chemosphere* **2009**, *74*(8):1090-1097; doi:10.1016/j.chemosphere.2008.10.051.

Toomey BH and Epel D. "Multixenobiotic Resistance in Urechis caupo Embryos: Protection From Environmental Toxins." *Biological Bulletin* **1993**, *185*(3):355-364.

Topp E. "What is the fate and significance of PPCPs and EDCs following the application of biosolids to soils?" Workshop on Microconstituents and Ecological Impacts of Biosolids and Effluent Reuse in the Calumet Region, Cicero, IL, 26 June 2008; http://www.mwrdgc.dst.il.us/RD/Endocrine_disruptors/Microconstituents/Fate%20and%20Significance%20of%20PPCPs%20and%20EDCs%20Following%20Application%20of%20Biosolids%20to%20Soils%20-%20Topp.pdf, http://www.mwrdgc.dst.il.us/RD/Endocrine_disruptors/Microconstituents/Microconstituents_Workshop.htm.

Topp E, Hendel J, Lapen D, and Chapman R. "Fate of the nonsteroidal anti-inflammatory drug naproxen in agricultural soil receiving liquid municipal biosolids." *Environmental Toxicology and Chemistry* **2008**, *27*(10):2005-2010; doi:10.1897/07-644.1.

Topp E, Hendel JG, Lu ZX, and Chapman R. "Biodegradation of caffeine in agricultural soils." *Canadian Journal of Soil Science* **2006**, *86*(3):533-544.

Topp E, Monteiro SC, Beck A, Coelho BB, Boxall ABA, Duenk PW*, et al.* "Runoff of pharmaceuticals and personal care products following application of biosolids to an agricultural field." *Science of the Total Environment* **2008**, *396*(1):52-59; doi:10.1016/j.scitotenv.2008.02.011.

Torklep C. "Industry Overview: Pharmaceuticals." Storebrand Investments, May, 2002, 6 pp.

Torneke K, Bergstrom U, and Neil A. "Interactions of xylazine and detomidine with α_2-adrenoceptors in brain tissue from cattle, swine and rats." *Journal of Veterinary Pharmacology and Therapeutics* **2003**, *26*:205-211.

Torres AC, Romero AM, and Calatayud JM. "FIA-fluorimetric determination of adrenaline in pharmaceutical formulations by oxidation with molecular oxygen." *Microchimica Acta* **1998**, *128*(3-4):187-190; doi:10.1007/BF01243048.

Toulisbah HE, El-Bassat RA, El-Shimy A, and Harisa GI. "Oxidative Stress of Plankton Community and Some Isolated Species during paracetamol toxicity testing." *Journal of Biological Sciences* **2008**, *8*(1):13-23.

Touraki M, Niopas I, and Kastritsis C. "Bioaccumulation of trimethoprim, sulfamethoxazole and N-acetyl-sulfamethoxazole in Artemia nauplii and residual kinetics in seabass larvae after repeated oral dosing of medicated nauplii." *Aquaculture* **1999**, *175*(1-2):15-30; doi:10.1016/S0044-8486(99)00036-8.

Touraki M, Rigas P, Pergandas P, and Kastritsis C. "Determination of Oxytetracycline in the Live Fish Feed Artemia Using High-Performance Liquid-Chromatography with Ultraviolet Detection." *Journal of Chromatography B: Biomedical Sciences and Applications* **1995**, *663*(1):167-171.

Touraud E and Roig B. "KNAPPE Final Report." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters (KNAPPE), 20 September, 2008, 43 pp.

Townsend T and Musson S. "Detection of Selected Pharmaceutical Compounds and Determination of Their Fate in Modern Lined Landfills" (Presentation)." Year Unknown; http://www.dep.state.fl.us/waste/quick_topics/publications/shw/meds/FateOfPharmaceuticalsInLandfillTownsendandMusson1206.pdf.

Townshend A, Murillo Pulgarin JA, and Alanon Pardo MT. "Flow injection-chemiluminescence determination of propranolol in pharmaceutical preparations." *Analytica Chimica Acta* **2003**, *488*(1):81-88; doi:10.1016/S0003-2670(03)00664-0.

Townshend A, Youngvises N, Wheatley RA, and Liawruangrath S. "Flow-injection determination of cinnarizine using surfactant-enhanced permanganate chemiluminesence." *Analytica Chimica Acta* **2003**, *499*(1-2):223-233; doi:10.1016/j.aca.2003.09.042.

TOXNET "LactMed: Drugs and Lactation Database." 2009; http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?LACT.

ToxServices. "Approaches to Screening for Risk from Pharmaceuticals in Drinking Water and Prioritization for Further Evaluation." US Environmental Protection Agency, ToxServices LLC, Ed., Contract C-07-021, WA-B-02, Task 6, Washington, DC, 20 October, 2008, 16 pp; http://dels.nas.edu/best/risk_analysis/Documents/EPA%20Pharmaceuticals%20in%20water%20white%20paper.pdf.

Toze S. "Water reuse and health risks -- real vs. perceived." *Desalination* **2006**, *187*(1-3):41-51; doi:10.1016/j.desal.2005.04.066.

Toze S. "Reuse of effluent water--benefits and risks." *Agricultural Water Management* **2006**, *80*(1-3):147-159; doi:10.1016/j.agwat.2005.07.010.

Tozer S. "The importance of establishing reliable consumer exposure to chemicals in personal care products in the TTC process." *Toxicology* **2007**, *240*(3):132-133; doi:10.1016/j.tox.2007.06.009.

Track T and Kreysa G, Eds., "Spurenstoffe in Gewassern: Pharmazeutische Reststoffe Und Endokrin Wirksame Substanzen [Trace substances in the aquatic environment: Pharmaceutical residues and endocrine disrupting chemicals]." Wiley-VCH, 2003, 269 pp; http://translate.google.com/translate?hl=en&sl=de&u=http://www.amazon.de/Spurenstoffe-Gew%25C3%25A4ssern-Pharmazeutische-Reststoffe-Substanzen/dp/3527310177&ei=lZWySp69Cs7JlAevt8yLDw&sa=X&oi=translate&resnum=3&ct=result&prev=/search%3Fq%3DSpurenstoffe%2Bin%2BGewassern:%2BPharmazeutische%2BReststoffe%2BUnd%2BEndokrin%2BWirksame%2BSubstanzen%26hl%3Den%26rlz%3D1T4GGLL_enUS337US337.

Tramoni M, Gilleron J, Tahiri K, Carette D, Corvol M-T, Segretain D*, et al.* "Contraceptive steroids from pharmaceutical waste perturbate junctional communication in sertoli cells." *Biochimie* **2009**, *In Press*; doi:10.1016/j.biochi.2009.09.008.

Tran NH, Urase T, and Kusakabe O. "The characteristics of enriched nitrifier culture in the degradation of selected pharmaceutically active compounds." *Journal of Hazardous Materials* **2009**, *171*(1-3):1051-1057; doi:10.1016/j.jhazmat.2009.06.114.

TransGreen Energy "TGE PlasmaPowerprocess and GreenRenewal." Web Page maintained by TransGreen Energy, Inc, Detroit, MI 2008, http://www.transgreenenergy.com/GreenRenewal/.

Trautwein C, Kümmerer K, and Metzger JW. "Aerobic biodegradability of the calcium channel antagonist verapamil and identification of a microbial dead-end transformation product studied by LC-MS/MS." *Chemosphere* **2008**, *72*(3):442-450.

Traviesa-Alvarez JM, Costa-Fernandez JM, Pereiro R, and Sanz-Medel A. "Direct screening of tetracyclines in water and bovine milk using room temperature phosphorescence detection." *Analytica Chimica Acta* **2007**, *589*(1):51-58; doi:10.1016/j.aca.2007.02.063.

Travis J. "Popularity of germ fighter raises concern." *Science News* **2000**, *157*(22):342.

Travis J. "Nicotine metabolism may spawn carinogen." *Science News* **2000**, *158*(18):278.

Trefiletti P and Masiero M. "Ruolo della rete idrica superficiale nella contaminazione degli acquiferi da PPCPS e PHACS [Network's role in the contamination of surface water from aquifers PPCPS and PHACS]." *Giornale di Geologia Applicata* **2008**, *8*(1):117-127; doi:10.1474/GGA.2008-08.1-11.0192.

Trenholm RA, Vanderford BJ, Drewes JE, and Snyder SA. "Determination of Household Chemicals Using Gas Chromatography and Liquid Chromatography with Tandem Mass Spectrometry." *Journal of Chromatography A* **2008**, *1190*(1-2):253-262; doi:10.1016/j.chroma.2008.02.032.

Trenholm RA, Vanderford BJ, Holady JC, Rexing DJ, and Snyder SA. "Broad range analysis of endocrine disruptors and pharmaceuticals using gas chromatography and liquid chromatography tandem mass spectrometry." *Chemosphere* **2006**, *65*(11):1990-1998; doi:10.1016/j.chemosphere.2006.07.004.

Trenholm RA, Vanderford BJ, and Snyder SA. "On-line solid phase extraction LC-MS/MS analysis of pharmaceutical indicators in water: A green alternative to conventional methods." *Talanta* **2009**, *79*(5):1425-1432; doi:10.1016/j.talanta.2009.06.006.

Triebskorn R, Casper H, Heyd A, Eikemper R, Kohler HR, and Schwaiger J. "Toxic effects of the non-steroidal anti-inflammatory drug diclofenac: Part II. Cytological effects in liver, kidney, gills and intestine of rainbow trout (Oncorhynchus mykiss)." *Aquatic Toxicology* **2004**, *68*(2):151-166; doi:10.1016/j.aquatox.2004.03.015.

Triebskorn R, Casper H, Scheil V, and Schwaiger J. "Ultrastructural effects of pharmaceuticals (carbamazepine, clofibric acid, metoprolol, diclofenac) in rainbow trout (Oncorhynchus mykiss) and common carp (Cyprinus carpio)." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1405-1416; doi:10.1007/s00216-006-1033-x.

Triggle DJ. "Pharmaceuticals in Society - Global Health Requires More Than Better Drugs." in *A Healthy Future- Pharmaceuticals in a Sustainable Society*, collaborative publication of Apoteket AB, MistraPharma, and Stockholm County Council; Sweden, 2009, Chapter 2, pp 40-57; http://www.epa.gov/nerlesd1/bios/daughton/Pharmaceuticals-Sustainability-2009.pdf.

Tripodi V, Flor S, Carlucci A, and Lucangioli S. "Simultaneous determination of natural and synthetic estrogens by EKC using a novel microemulsion." *Electrophoresis* **2006**, *27*(22):4431-4438.

Tripoli B and Williams CD. "Emerging Contaminants: A Review with Policy Recommendations." National Center for Conservation Science & Policy, Ashland, OR, April, 2008, 12 pp;

http://nccsp.org/resources/Emerging%20Contaminants%20%20A%20Review_FINAL_04-02-08.doc.

Trivedi P and Vasudevan D. "Spectroscopic Investigation of Ciprofloxacin Speciation at the Goethite-Water Interface." *Environmental Science & Technology* **2007**, *41*(9):3153-3158; doi:10.1021/es061921y.

Trosken E-R. "Toxicological evaluation of azole fungicides in agriculture and food chemistry." Doctoral Dissertation, Bayerischen Julius-Maximilians- Universitat Wurzburg, Wurzburg, 2005. 140 pp; http://deposit.ddb.de/cgi-bin/dokserv?idn=979445124&dok_var=d1&dok_ext=pdf&filename=979445124.pdf.

Trovó AG, Melo SAS, and Nogueira RFP. "Photodegradation of the pharmaceuticals amoxicillin, bezafibrate and paracetamol by the photo-fenton process - application to sewage treatment plant effluent." *Journal of Photochemistry and Photobiology A: Chemistry* **2008**, *198*(2-3):215-220; doi:10.1016/j.jphotochem.2008.03.011.

Trovó AG, Nogueira RFP, Agüera A, Fernandez-Alba AR, Sirtori C, and Malato S. "Degradation of sulfamethoxazole in water by solar photo-fenton. Chemical and toxicological evaluation." *Water Research* **2009**, *43*(15):3922-3931; doi:10.1016/j.watres.2009.04.006.

Trovó AG, Nogueira RFP, Agüera A, Sirtori C, and Fernández-Alba AR. "Photodegradation of sulfamethoxazole in various aqueous media: Persistence, toxicity and photoproducts assessment." *Chemosphere* **2009**, *77*(10):1292-1298; doi:10.1016/j.chemosphere.2009.09.065.

Trudeau VL, Metcalfe CD, Mimeault C, and Moon TW. "Pharmaceuticals in the environment: Drugged fish?" in *Environmental Toxicology, Biochemistry and Molecular Biology of Fishes*, Mommsen TP, Ed., Elsevier; Amsterdam, 2005, Chapter 17, pp 495-533; doi:10.1016/S1873-0140(05)80021-9; http://www.lavoisier.fr/notice/gb281766.html http://www.elsevier.com/wps/find/bookdescription.cws_home/704481/description#toc.

Trudeau VL, Turque N, Le Mevel S, Alliot C, Gallant N, Coen L*, et al.* "Assessment of estrogenic endocrine-disrupting chemical actions in the brain using in vivo somatic gene transfer." *Environmental Health Perspectives* **2005**, *113*(3):329-334; doi:10.1289/ehp.7418.

Trusheim MR, Berndt ER, and Douglas FL. "Stratified medicine: strategic and economic implications of combining drugs and clinical biomarkers." *Nature Reviews Drug Discovery* **2007**, *6*(4):287-293.

Trussell R. "Endocrine disruptors and the water industry." *Journal - American Water Works Association* **2001**, *93*(2):58-65.

Tsagarakis KP, Mellon RC, Stamataki E, and Kounalaki E. "Identification of Recycled Water with an Empirically Derived Symbol Increases Its Probability of Use." *Environmental Science & Technology* **2007**, *41*(20):6901-6908; doi:10.1021/es0627491.

Tsai S-W, Shih M-W, and Pan Y-P. "Determinations and residual characteristics of triclosan in household food detergents of Taiwan." *Chemosphere* **2008**, *72*(9):1250-1255; doi:10.1016/j.chemosphere.2008.05.003.

Tsai W-H, Chuang H-Y, Chen H-H, Huang J-J, Chen H-C, Cheng S-H*, et al.* "Application of dispersive liquid-liquid microextraction and dispersive micro solid-phase extraction for the determination of quinolones in swine muscle by high-performance liquid chromatography with diode-array detection." *Analytica Chimica Acta* **2009**, *In press*; doi:10.1016/j.aca.2009.10.008.

Tsai W-H, Huang T-C, Huang J-J, Hsue Y-H, and Chuang H-Y. "Dispersive solid-phase microextraction method for sample extraction in the analysis of four tetracyclines in water and milk samples by high-performance liquid chromatography with diode-array detection." *Journal of Chromatography A* **2009**, *1216*(12):2263-2269; doi:10.1016/j.chroma.2009.01.034.

Tschmelak J, Kumpf M, Proll G, and Gauglitz G. "Biosensor for seven sulphonamides in drinking, ground, and surface water with difficult matrices." *Analytical Letters* **2004**, *37*(8):1701-1718; doi:10.1081/AL-120037597.

Tschmelak J, Proll G, and Gauglitz G. "Sub-nanogram per litre detection of the emerging contaminant progesterone with a fully automated immunosensor based on evanescent field techniques." *Analytica Chimica Acta* **2004**, *519*(2):143-146; doi:10.1016/j.aca.2004.06.031.

Tschmelak J, Proll G, and Gauglitz G. "Immunosensor for estrone with an equal limit of detection as common analytical methods." *Analytical and Bioanalytical Chemistry* **2004**, *378*(3):744-745; doi:10.1007/s00216-003-2357-4.

Tschmelak J, Proll G, and Gauglitz G. "Optical biosensor for pharmaceuticals, antibiotics, hormones, endocrine disrupting chemicals and pesticides in water: Assay optimization process for estrone as example." *Talanta* **2005**, *65*(2):313-323; doi:10.1016/j.talanta.2004.07.011.

Tschmelak J, Proll G, Riedt J, Kaiser J, Kraemmer P, Bárzaga L*, et al.* "Automated Water Analyser Computer Supported System (AWACSS): Part II: Intelligent, remote-controlled, cost-effective, on-line, water-monitoring measurement system." *Biosensors and Bioelectronics* **2005**, *20*(8):1509-1519; doi:10.1016/j.bios.2004.07.033.

Tsuda T, Suga K, Kaneda E, and Ohsuga M. "Determination of 4-nonylphenol, nonylphenol monoethoxylate, nonylphenol diethoxylate and other alkylphenols in fish and shellfish by high-performance liquid chromatography with fluorescence detection." *Journal of Chromatography B: Biomedical Sciences and Applications* **2000**, *746*(2):305-309; doi:10.1016/S0378-4347(00)00322-4.

Tsuji PA, Winn RN, and Walle T. "Accumulation and metabolism of the anticancer flavonoid 5,7-dimethoxyflavone compared to its unmethylated analog chrysin in the Atlantic killifish." *Chemico-Biological Interactions* **2006**, *164*(1-2):85-92; doi:10.1016/j.cbi.2006.08.023.

Tu HT, Silvestre F, Scippo M-L, Thome J-P, Phuong NT, and Kestemont P. "Acetylcholinesterase activity as a biomarker of exposure to antibiotics and pesticides in the black tiger shrimp (Penaeus monodon)." *Ecotoxicology and Environmental Safety* **2009**, *72*(5):1463-1470; doi:10.1016/j.ecoenv.2009.04.008.

Tubbs L, Mathieson T, and Tingle M. "Metabolism of praziquantel in kingfish Seriola lalandi." *Diseases of Aquatic Organisms* **2008**, *78*(3):225-233.

Tucker CE. 2009, "Industry Representatives Ask EPA for Clarity On Pharmaceutical Hazardous Waste Rule." Daily Environment Report, 2 pp; http://news.bna.com/deln/DELNWB/split_display.adp?fedfid=11649123&vname=dennotallissues&fn=11649123&jd=a0b8b3q3h0&split=0.

Tucker JL. "Green Chemistry, a Pharmaceutical Perspective." *Organic Process Research and Development* **2006**, *10*(2):315-319; doi:10.1021/op050227k.

Tudor TL. "Towards the development of a standardised measurement unit for healthcare waste generation." *Resources Conservation and Recycling* **2007**, *50*(3):319-333; doi:10.1016/j.resconrec.2006.06.007.

Tuerk J, Reinders M, Dreyer D, Kiffmeyer TK, Schmidt KG, and Kuss H-M. "Analysis of antibiotics in urine and wipe samples from environmental and biological monitoring--Comparison of HPLC with UV-, single MS- and tandem MS-detection." *Journal of Chromatography B: Biomedical Sciences and Applications* **2006**, *831*(1-2):72-80; doi:10.1016/j.jchromb.2005.11.030.

Tülp HC, Fenner K, Schwarzenbach RP, and Goss K-U. "pH-Dependent Sorption of Acidic Organic Chemicals to Soil Organic Matter." *Environmental Science & Technology* **2009**, *In press*; doi:10.1021/es902272j.

Tuma RS. "New ways to use old drugs Investigator: Paraskevi Giannokakou." presented at American Association of Cancer Research, 26 March, 2001.

Tuméo E, Gbaguidi-Haore H, Patry I, Bertrand X, Thouverez M, and Talon D. "Are antibiotic-resistant Pseudomonas aeruginosa isolated from hospitalised patients recovered in the hospital effluents?" *International Journal of Hygiene and Environmental Health* **2008**, *211*(1-2):200-204; doi:10.1016/j.ijheh.2007.02.010.

Tunay O, Samuk B, Olmez T, and Kabdasli I. "Application of advanced oxidation to enhance biodegradability of pharmaceutical industry wastewaters." *Fresenius Environmental Bulletin* **2004**, *13*(10, SI):965-968.

Tungudomwongsa H, Leckie J, and Mill T. "Photocatalytic oxidation of emerging contaminants: Kinetics and pathways for photocatalytic oxidation of pharmaceutical compounds." *Journal of Advanced Oxidation Technologies* **2006**, *9*(1):59-64.

Tunkel J, Mayo K, Dnaebel D, Walker JD, and Gray DA. "Use of QSARs to Promote More Cost-Effective Use of Chemical Monitoring Resources. 1. Screening Industrial Chemicals and Pesticides, Direct Food Additives, Indirect Food Additives and Pharmaceuticals for Biodegradation, Bioconcentration and Aquatic Toxicity potential." *Water Quality Research Journal of Canada* **2004**, *39*(1):35-39.

Turci R, Sottani C, Spagnoli G, and Minoia C. "Biological and environmental monitoring of hospital personnel exposed to antineoplastic agents: a review of analytical methods." *Journal of Chromatography B: Biomedical Sciences and Applications* **2003**, *789*(2):169-209; doi:10.1016/S1570-0232(03)00100-4.

Turiel E, Bordin G, and Rodriguez AR. "Trace enrichment of (fluoro)quinolone antibiotics in surface waters by solid-phase extraction and their determination by liquid chromatography-ultraviolet detection." *Journal of Chromatography A* **2003**, *1008*(2):145-155;

doi:10.1016/S0021-9673(03)00975-0.

Turiel E, Bordin G, and Rodriguez AR. "Determination of quinolones and fluoroquinolones in hospital sewage water by off-line and on-line solid-phase extraction procedures coupled to HPLC-UV." *Journal of Separation Science* **2005**, *28*(3):257-267; doi:10.1002/jssc.200400018.

Turiel E, Bordin G, and Rodriguez AR. "Study of the evolution and degradation products of ciprofloxacin and oxolinic acid in river water samples by HPLC-UV/MS/MS-MS." *Journal of Environmental Monitoring* **2005**, *7*(3):189-195; doi:10.1039/b413506g.

Turiel E, Martin-Esteban A, Bordin G, and Rodriguez AR. "Stability of fluoroquinolone antibiotics in river water samples and in octadecyl silica solid-phase extraction cartridges." *Analytical and Bioanalytical Chemistry* **2004**, *380*(1):123-128; doi:10.1007/s00216-004-2730-y.

Turiel E, Martin-Esteban A, and Tadeo JL. "Multiresidue analysis of quinolones and fluoroquinolones in soil by ultrasonic-assisted extraction in small columns and HPLC-UV." *Analytica Chimica Acta* **2006**, *562*(1):30-35; doi:10.1016/j.aca.2006.01.054.

Turiel E, Martin-Esteban A, and Tadeo JL. "Molecular imprinting-based separation methods for selective analysis of fluoroquinolones in soils." *Journal of Chromatography A* **2007**, *1172*(2):97-104; doi:10.1016/j.chroma.2007.10.003.

Turkdogan FI and Yetilmezsoy K. "Appraisal of potential environmental risks associated with human antibiotic consumption in Turkey." *Journal of Hazardous Materials* **2009**, *166*(1):297-308; doi:10.1016/j.jhazmat.2008.11.012.

Turker Sacan M and Akmehmet Balcioglu I. "A case study on algal response to raw and treated effluents from an aluminum plating plant and a pharmaceutical plant." *Ecotoxicology and Environmental Safety* **2006**, *64*(2):234-243; doi:10.1016/j.ecoenv.2005.03.017.

Turnipseed SB and Andersen WC. "Food Contaminants and Residue Analysis." in *Food Contaminants and Residue Analysis*, Pico Y, Ed., 2008, Chapter 10, pp; http://www.oriented.cz/5/30196.food.contaminants.and.residue.analysis.htm.

Turnipseed SB, Roybal JE, Pfenning AP, and Kijak PJ. "Use of ion-trap liquid chromatography-mass spectrometry to screen and confirm drug residues in aquacultured products." *Analytica Chimica Acta* **2003**, *483*(1-2):373-386; doi:10.1016/S0003-2670(02)01567-2.

Turnipseed SB, Walker CC, Roybal JE, Pfenning AP, and Hurlbut JA. "Confirmation of fluoroquinolones in catfish muscle by electrospray liquid chromatography/mass spectrometry." *Journal of AOAC International* **1998**, *81*(3):554-562.

Turque B. "Sewage Tested for Signs of Cocaine: Fairfax Participating In Federal Program To Assess Drug Use." Washington Post, 2006, http://www.washingtonpost.com/wp-dyn/content/article/2006/03/26/AR2006032600880.html.

Tuttle PL and Orsak EL. "Las Vegas Wash water quality and implications to fish and wildlife." US Fish and Wildlife Service, 1 November, 2002, 62 pp; http://www.fws.gov/pacific/ecoservices/envicon/pim/reports/LasVegas/LasVegasWash/Final_Las_Vegas_Wash_Study.pdf.

Tweats DJ, Scott AD, Westmoreland C, and Carmichael PL. "Determination of genetic toxicity and potential carcinogenicity in vitro - challenges post the Seventh Amendment to the European Cosmetics Directive." *Mutagenesis* **2007**, *22*(1):5-13.

Twombly R. "Boston pee party." *Environmental Health Perspectives* **2001**, *109*(5):A204.

Tyler C, Routledge E, and van Aerle R. "Estrogenic effects of treated sewage effluent on fish: steroids and surfactants in English rivers." in *The Toxicology of Fishes*, DiGiulio RT and Hinton DE, Eds., CRC Press; 2008, Chapter 25, pp 971-1002; http://books.google.com/books?hl=en&lr=&id=aOfEXLNMLugC&oi=fnd&pg=PA971&dq=+pharmaceutical+OR+drug+OR+ppcps+OR+phacs+%22sewage%22+-elsevier&ots=2HoNSLgJEO&sig=uw4J8yHV_Eoro97S4gJQWXOcqRE#PPR9,M1.

Tyler CR, Filby AL, Bickley LK, Cumming RI, Gibson R, Labadie P*, et al.* "Environmental Health Impacts of Equine Estrogens Derived from Hormone Replacement Therapy." *Environmental Science & Technology* **2009**, *43*(10):3897-3904; doi:10.1021/es803135q.

Tyler CR and Jobling S. "Roach, Sex, and Gender-Bending Chemicals: The Feminization of Wild Fish in English Rivers." *Bioscience* **2008**, *58*(11):1051-1059; doi:10.1641/B581108.

Tyler CR, Jobling S, and Sumpter JP. "Endocrine Disruption in Wildlife: A Critical Review of the Evidence." *Critical Reviews in Toxicology* **1998**, *28*(4):319 - 361; doi:10.1080/10408449891344236.

Tyler CR and Routledge EJ. "Oestrogenic effects in fish in English rivers with evidence of their causation." *Pure and Applied Chemistry* **1998**, *70*(9):1795-1804.

Tyler CR, Spary C, Gibson R, Santos EM, Shears J, and Hill EM. "Accounting for differences in estrogenic responses in rainbow trout (Oncorhynchus mykiss: Salmonidae) and roach (Rutilus rutilus: Cyprinidae) exposed to effluents from wastewater treatment works." *Environmental Science & Technology* **2005**, *39*(8):2599-2607; doi:10.1021/es0488939.

Tyler CR, van Aerle R, Hutchinson TH, Maddix S, and Trip H. "An in vivo testing system for endocrine disruptors in fish early life stages using induction of vitellogenin." *Environmental Toxicology and Chemistry* **1999**, *18*(2):337-347; doi:10.1897/1551-5028(1999)018<0337:AIVTSF>2.3.CO;2.

Tyler CR, van Aerle R, Nilsen MB, Blackwell R, Maddix S, Nilsen BM*, et al.* "Development and validation of a monoclonal ELISA to quantify vitellogenin in the rainbow trout (Oncorhynchus mykiss) and its application for studies on environmental oestrogens." *Environmental Toxicology and Chemistry* **2002**, *21*(1):47-54; doi:10.1897/1551-5028(2002)021<0047:MAELIA>2.0.CO;2.

Tyshenko MG, Phillips KP, Mehta M, Poirier R, and Leiss W. "Risk Communication of Endocrine-Disrupting Chemicals: Improving Knowledge Translation and Transfer." *Journal of Toxicology and Environmental Health, Part B Critical Review* **2008**, *11*(3):345 - 350.

Tysklind M, Fick J, and Kallenborn R. "The spread of drugs in soil and water." in *Environment and Pharmaceuticals*, Apoteket AB, Ed., Apoteket AB (The National Corporation of Swedish Pharmacies), Stockholm County Council, Stockholm University; Stockholm, Sweden, 2006, Chapter 3, pp 40-52; http://www2.apoteket.se/NR/rdonlyres/FAB1EBDB-319A-4B45-95DA-CB4D863FE525/0/EnvironmentandPharmaceuticals.pdf.

U Maine Center on Aging, Main Benzodiazepine Study Group, Drug Disposal, and University of New England. "2008 International Symposium on Pharmaceuticals in the Home and Environment: Catalysts for Change." in South Portland, ME, 10-11 November, 2008, http://www.mainebenzo.org/documents/AdvanceProgram9.16.pdf.

Uehling MD. "Free drugs from your faucet." Salon.com, 2001; http://archive.salon.com/tech/feature/2001/10/25/drugs_water/.

Uematsu K. "Effects of drugs on the responses of the ovary to field and nerve stimulation in a tilapia Sarotherodon niloticus [Effects of autonomic neurotropic drugs on the ovarian contraction of tilapia Tilapia nilotica]." *Bulletin of the Japanese Society of Scientific Fisheries* **1985**, *51*(1):47-53.

Ueno R. "Metabolism and Pharmacokinetics of Sulfamonomethoxine in Edible Fish Species." in *Xenobiotics in Fish*, Smith DJ, Gingerich WH and Beconi-Barker MG, Eds., Kluwer Academic/Plenum Publishers; New York, 1999, Chapter 15, pp 201-212; http://bookshop.blackwell.co.uk/jsp/id/Xenobiotics_in_Fish/9780306461897#synopsis.

Ueno R, Kinoshita A, and Wakabayashi J. "Comparative pharmacokinetics of oxytetracycline in eel and its fate in a closed aquatic environment." *Aquaculture* **2004**, *235*(1-4):53-63; doi:10.1016/S0044-8486(03)00449-6.

Uetrecht J. "Idiosyncratic Drug Reactions: Current Understanding." *Annual Review of Pharmacology and Toxicology* **2007**, *47*(1):513-539; doi:10.1146/annurev.pharmtox.47.120505.105150.

Uetrecht J. "Idiosyncratic Drug Reactions: Past, Present, and Future." *Chemical Research in Toxicology* **2008**, *21*(1):84-92; doi:10.1021/tx700186p.

Uetrecht J. "Immune-Mediated Adverse Drug Reactions." *Chemical Research in Toxicology* **2009**, *22*(1):24-34; doi:10.1021/tx800389u.

Uhler GC, Huminski PT, Les FT, and Fong PP. "Cilia-driven rotational behavior in gastropod (Physa elleptica) embroys induced by serotonin and putative serotonin reuptake inhibitors (SSRIs)." *Journal of Experimental Zoology* **2000**, *286*(4):414-421; doi:10.1002/(SICI)1097-010X(20000301)286:4<414::AID-JEZ9>3.0.CO;2-B.

UL, "UL Assists Drinking Water Community in Proactively Monitoring for Emerging Contaminants." *Water Conditioning & Purification*, Underwriters Laboratories, July, 2008, 50 7: http://www.wcponline.com/NewsView.cfm?ID=3794&AT=F.

UL "Drinking water analytical services." Web Page maintained by Underwriters Laboratories 2008, http://www.ul-waterlab.com/.

Ulbert S, Chaves I, and Borst P. "Expression site activation in Trypanosoma brucei with three marked variant surface glycoprotein gene expression sites." *Molecular and Biochemical Parasitology* **2002**, *120*(2):225-235; doi:10.1016/S0166-6851(02)00003-8.

ULM "RxNorm: Unified Medical Language System (UMLS)." United States National Library of Medicine 2009; http://www.nlm.nih.gov/research/umls/rxnorm/index.html.

Ulrich RG. "Idiosyncratic Toxicity: A Convergence of Risk Factors." *Annual Review of Medicine* **2007**, *58*(1):17-34; doi:10.1146/annurev.med.58.072905.160823.

Underwood A, "Rivers of doubt." *Newsweek*, 4 June, 2007, 58-60 pp; http://www.newsweek.com/id/34310.

University of Maine "Safe medicine disposal for ME program." Web Page maintained by University of Maine Center on Aging 2008, http://www.safemeddisposal.com/.

University of Minnesota "Biocatalysis/Biodegradation Database - UM-BBD Pathway Prediction System." 2008; http://umbbd.msi.umn.edu/predict/.

University of Minnesota. "U Of Minnesota Three-State Survey Finds U.S. Households Flushing More Organic Material Than Expected Down The Drain." 10 June, 2009, http://www.wateronline.com/article.mvc/U-Of-Minnesota-Three-State-Survey-Finds-US-0001?VNETCOOKIE=NO.

University of Twente "Water footprint." Web Page maintained by University of Twente & UNESCO-IHE 2008, http://www.waterfootprint.org/?page=files/home.

Uno K. "Pharmacokinetics of oxolinic acid and oxytetracycline in kuruma shrimp, Penaeus japonicus." *Aquaculture* **2004**, *230*(1):1-11; doi:10.1016/j.aquaculture.2003.10.007.

Uno K, Aoki T, Kleechaya W, Tanasomwang V, and Ruangpan L. "Pharmacokinetics of oxytetracycline in black tiger shrimp, Penaeus monodon, and the effect of cooking on the residues." *Aquaculture* **2006**, *254*(1-4):24-31; doi:10.1016/j.aquaculture.2005.10.031.

UNODC. "Terminology and information on drugs." United Nations Office on Drugs and Crime, New York, N.Y., 2003, 80 pp; http://www.unodc.org/pdf/publications/report_2003-09-01_1.pdf.

UNODC. "World Drug Report." United Nations Office on Drugs and Crime, E. 07.XI.5, 2007, 275 pp; http://www.unodc.org/pdf/research/wdr07/WDR_2007.pdf.

UNODC. "2007 World Drug Report: Section 4-Methodology." in United Nations Office on Drugs and Crime, Vienna, Austria, June, 2007, 257-274 pp; http://www.unodc.org/pdf/research/wdr07/WDR_2007_4.0_methodology.pdf.

Unold M, Simunek J, Kasteel R, Groeneweg J, and Vereecken H. "Transport of Manure-Based Applied Sulfadiazine and Its Main Transformation Products in Soil Columns." *Vadose Zone Journal* **2009**, *8*(3):677-689; doi:10.2136/vzj2008.0122.

Urase T, Kagawa C, and Kikuta T. "Factors affecting removal of pharmaceutical substances and estrogens in membrane separation bioreactors." *Desalination* **2005**, *178*(1-3):107-113; doi:10.1016/j.desal.2004.11.031.

Urase T and Kikuta T. "Separate estimation of adsorption and degradation of pharmaceutical substances and estrogens in the activated sludge process." *Water Research* **2005**, *39*(7):1289-1300; doi:10.1016/j.watres.2005.01.015.

Urase T and Sato K. "The effect of deterioration of nanofiltration membrane on retention of pharmaceuticals." *Desalination* **2007**, *202*(1-3):385-391; doi:10.1016/j.desal.2005.12.078.

Urbatzka R, Bottero S, Mandich A, Lutz I, and Kloas W. "Endocrine disrupters with (anti)estrogenic and (anti)androgenic modes of action affecting reproductive biology of Xenopus laevis: I. Effects on sex steroid levels and biomarker expression." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2007**, *144*(4):310-318; doi:10.1016/j.cbpc.2006.10.008.

Urbatzka R, Lutz I, Opitz R, and Kloas W. "Luteinizing hormone, follicle stimulating hormone, and gonadotropin releasing hormone mRNA expression of Xenopus laevis in response to endocrine disrupting compounds affecting reproductive biology." *General and Comparative Endocrinology* **2006**, *146*(2):119-125; doi:10.1016/j.ygcen.2005.10.005.

Urbatzka R, van Cauwenberge A, Maggioni S, Vigano L, Mandich A, Benfenati E*, et al.* "Androgenic and antiandrogenic activities in water and sediment samples from the river Lambro, Italy, detected by yeast androgen screen and chemical analyses." *Chemosphere* **2007**, *67*(6):1080-1087; doi:10.1016/j.chemosphere.2006.11.041.

Urquhart J. "The drugs not taken." *Science* **2008**, *321*(5890):769; doi:10.1126/science.321.5890.769a.

Urraca JL, Hall AJ, Moreno-Bondi MC, and Sellergren B. "A stoichiometric molecularly imprinted polymer for the class-selective recognition of antibiotics in aqueous media." *Angewandte Chemie-International Edition* **2006**, *45*(31):5158-5161.

Urraca JL, Moreno-Bondi MC, Hall AJ, and Sellergren B. "Direct Extraction of Penicillin G and Derivatives from Aqueous Samples Using a Stoichiometrically Imprinted Polymer." *Analytical Chemistry* **2007**, *79*(2):695-701; doi:10.1021/ac061622r.

US Census Bureau. "Historical Census of Housing Tables: Sewage Disposal." 1990. http://www.census.gov/hhes/www/housing/census/historic/sewage.html.

US Congress. 2008, "H.R. 6357: PRO(TECH)T Act of 2008 ("Protecting Records, Optimizing Treatment and Easing Communication through Healthcare Technology Act of 2008")." http://www.govtrack.us/congress/bill.xpd?bill=h110-6357.

US Department of Health and Human Services, FDA, and CDER. "Food and Drug Administration (2008) Guidance for Industry: Safety Testing of Drug Metabolites, FDA, Rockville, MD." US Department of Health and Human Services, Food and Drug Administration, Center for Drug Evaluation and Research, February, 2008, 14 pp; http://www.fda.gov/CDER/GUIDANCE/6897fnl.pdf.

US National Library Medicine "Hazardous Substances Databank (HSDB)." 2008; http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB.

US National Library of Medicine "TOXNET - Databases on toxicology, hazardous chemicals, environmental health, and toxic releases." 2008; http://toxnet.nlm.nih.gov/.

US Senate and US House of Representatives. 2009, "National Water Research and Development Initiative Act." 22 pp; http://thomas.loc.gov/cgi-bin/bdquery/z?d111:HR01145:.

USCG. "Report as of FY 2007 for 2006NC61B: 'Endocrine and Reproductive Effects of the Pharmaceutical Fluoxetine on Native Freshwater Mussels: Proximity to Measured Environmental Concentrations'." US Coast Guard, 2006NC61B, 2007, 8 pp; http://water.usgs.gov/wrri/06grants/progress/2006NC61B.pdf.

USDEA. 2005, "Drug Enforcement Administration: Preventing the accumulation of surplus controlled substances at long term care facilities." http://www.deadiversion.usdoj.gov/fed_regs/rules/2005/fr0513.htm.

USDEA. "Lists of: Scheduling actions controlled substances regulated chemicals." US Department of Justice, April 2008. 62 pp; http://www.deadiversion.usdoj.gov/schedules/index.html.

USDEA. "Drugs of Abuse." 2008, http://www.usdoj.gov/dea/pubs/abuse/1-csa.htm.

USDEA. "Pharmacist's manual." 2008; http://www.deadiversion.usdoj.gov/pubs/manuals/pharm2/index.htm.

USEPA. "Technical Support Document for Water Quality-based Toxics Control." EPA/505/2-90-001, March, 1991, 335 pp; http://www.epa.gov/npdes/pubs/owm0264.pdf.

USEPA. "Profile of the Pharmaceutical Manufacturing Industry." EPA/310-R-97-005 Washington, DC, 1997. 157 pp pp; http://www.phrma.org/publications/publications/profile02/index.cfm.

USEPA. "Development document for final effluent limitations guidelines and standards for the pharmaceutical manufacturing point source category." EPA-821-R-98-005, Office of Water, September 1998. 468 pp; http://www.epa.gov/ostwater/guide/pharm/techdev.html.

USEPA. "Guidelines for ecological risk assessment." EPA/630/R-95/002F, Washington, DC, US Environmental Protection Agency, Risk Assessment Forum, April 1998. 188 pp; http://cfpub2.epa.gov/ncea/cfm/recordisplay.cfm?deid=12460.

USEPA. "Endocrine Disruptor Screening Program (EDSP)." Endocrine Disruptor Screening and Testing Advisory Committee, 1998. http://www.epa.gov/scipoly/oscpendo/index.htm.

USEPA. "Integrated Environmental Decision-Making in the 21st Century." 1999. thttp://www.epa.gov/science1/intenv.htm.

USEPA. "Biosolids generation, use, and disposal in the United State." EPA-530-R-99-009, 1999.

USEPA. "Guidelines for Ecological Risk Assessment, April 1998, Risk Assessment Forum." EPA/630/R-95/002F, Washington, DC, 1

September 1999. http://www.epa.gov/ncea/raf/pdfs/ecotxtbx.pdf.

USEPA. "Onsite Wastewater Treatment Systems Manual." EPA-625-R-00-008, 2002.

USEPA. "Region/ORD Workshop on Emerging Pollutants: Summary Report." 905S03001 TD1020.E58R44 2003, Chicago, IL, US EPA, Region 5, 11-14 August 2003. 118 pp.

USEPA. "Meeting on pharmaceuticals in the environment." Office of Research and Development's National Center for Environmental Research, Washington, DC, 2005. 40 pp pp; http://es.epa.gov/ncer/publications/workshop/8-23-2005/finalsummary.pdf.

USEPA. "Prudent Disposal of Unwanted Medications." U.S. Environmental Protection Agency, Office of Children's Health Protection and Environmental Education, Child and Aging Health Protection Division and USEPA Aging Initiative, EPA-AO-OCHP-06-01 2006. 16 pp; http://www.epa.gov/aging/grants/grant-list/2006_0804_solicitation-06b-8.pdf.

USEPA. "Approaches for the Application of Physiologically Based Pharmacokinetic (PBPK) Models and Supporting Data in Risk Assessment (Final Report)." EPA/600/R-05/043F, August, 2006, 123 pp; http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=157668.

USEPA. "Standards of Performance for New Stationary Sources and Emissions Guidelines for Existing Sources: Hospital/Medical/Infectious Waste Incinerators." US Environmental Protection Agency, 2006, 234 pp; http://www.epa.gov/ttn/oarpg/t1/fr_notices/hmiwi_fr091509.pdf.

USEPA. "Method 1694: Pharmaceuticals and Personal Care Products in Water, Soil, Sediment, and Biosolids by HPLC/MS/MS." EPA-821-R-08-002, Washington, DC, Office of Water, Office of Science and Technology, Engineering and Analysis Division (4303T), December 2007. 77 pp; http://www.epa.gov/waterscience.

USEPA. "Method 1698: Steroids and hormones in water, soil, sediment, and biosolids by HRGC/HRMS." EPA-821-R-08-003, Washington, DC, Office of Water, Office of Science and Technology, Engineering and Analysis Division (4303T), December 2007. 69 pp; http://www.epa.gov/waterscience.

USEPA. "Use of Structure-Activity Relationship (SAR) Information and Quantitative SAR (QSAR) Modeling For Fulfilling Data Requirements for Antimicrobial Pesticide Chemicals and Informing EPA's Risk Management Process." Agency UEP, EPA-HQ-OPP-2008-0110-0045 17 December 2007. 38 pp; http://www.regulations.gov/fdmspublic/component/main?main=DocketDetail&d=EPA-HQ-OPP-2008-0110.

USEPA. "Appendix B - Antimicrobial Product Use Sites and Categories Index, Data Requirements for Antimicrobial Pesticides." Agency UEP, Document ID EPA-HQ-OPP-2008-0110-0043 5 February 2007. 23 pp; http://www.regulations.gov/fdmspublic/component/main?main=DocketDetail&d=EPA-HQ-OPP-2008-0110.

USEPA. "Four case studies of antimicrobial pesticides in the down-the-drain screening model, using the proposed approach for a screening-level environmental fate assessment." US Environmental Protection Agency AD, Office of Pesticides Programs, Document ID EPA-HQ-OPP-2008-0110-0044, 31 December 2007. 33 pp; http://www.regulations.gov/fdmspublic/component/main?main=DocketDetail&d=EPA-HQ-OPP-2008-0110.

USEPA. "Aquatic life criteria for contaminants of emerging concern. Part I. General challenges and recommendations." Prepared by OW/ORD Emerging Contaminants Workgroup, U.S. Environmental Protection Agency, 3 June, 2008, 36 pp; http://www.epa.gov/waterscience/criteria/library/sab-emergingconcerns.pdf.

USEPA "Analytical methods: Contaminants of emerging concern - Pharmaceuticals and personal care products (PPCPs) methods development." Web Page maintained by Office of Water 2008, http://www.epa.gov/waterscience/methods/method/ppcp/.

USEPA. "Aquatic life criteria for contaminants of emerging concern. Part II. Illustration of Recommendations Using Data for 17α-ethynylestradiol (EE2)." Prepared by OW/ORD Emerging Contaminants Workgroup, U.S. Environmental Protection Agency, 3 June, 2008, 46 pp; http://www.epa.gov/waterscience/criteria/library/sab-emergingconcerns.pdf.

USEPA. "Agency Information Collection Activities: Proposed Collection; Comment Request; Study of Unused Pharmaceuticals from Medical and Veterinary Facilities (New)." EPA ICR Number 2316.01, OMB Control No. 2040-NEW, 2008. 11 pp.

USEPA. "Information Collection Request (ICR): Health Care Industry Unused Pharmaceuticals Management." 2008, http://www.epa.gov/guide/304m/#hsi.

USEPA. 2008, "House leaves major EPA pharmaceutical study for next congress." Inside EPA.com, 3 pp;

http://lists.dep.state.fl.us/pipermail/pharmwaste/2008-October/001859.html.

USEPA. "EPA Pilot study of pharmaceuticals in fish tissue." Office of Water, 5 August, 2008, http://www.epa.gov/waterscience/ppcp/files/fish-pilot.pdf.

USEPA. "Unused pharmaceuticals in the health care industry: Interim report." August, 2008, 10 pp; http://www.epa.gov/guide/304m/#hsi http://www.epa.gov/guide/304m/2008/hsi-PRELIM-study-200808.pdf http://www.epa.gov/guide/304m/2008/hsi-tech-study-200809.pdf.

USEPA. "Pesticides; Data Requirements for Antimicrobial Pesticides; Notice of Public Workshop." USEPA, 40 CFR Parts 158 and 161 [EPA–HQ–OPP–2008–0110; FRL–8388–7], 23 October 2008. 63112-63113 pp.

USEPA. "Child-Specific Exposure Factors Handbook (CSEFH)." Washington, DC, US Environmental Protection Agency, 2008, 679 pp; http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=199243.

USEPA. "Water Ingestion, Ingestion of Water and Other Selected Liquids." in *Child-Specific Exposure Factors Handbook (CSEFH)*, National Center for Environment Assessment and Office of Research and Development, Eds., Washington, DC, 2008, Chapter 3, pp 3-1 - 3-36; http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=199243.

USEPA. "Data Requirements for Antimicrobial Pesticides." Agency UEP, EPA-HQ-OPP-2008-0110-0001 8 October 2008. 59381-59446 pp; http://edocket.access.gpo.gov/2008/E8-23127.htm http://www.regulations.gov/fdmspublic/component/main?main=DocketDetail&d=EPA-HQ-OPP-2008-0110.

USEPA. "Health Services Industry Study Management and Disposal of Unused Pharmaceuticals (Interim Technical Report)." US Environmental Protection Agency, EPA-821-R-08-013, August, 2008, 87 pp; http://www.epa.gov/guide/304m/2008/hsi-tech-study-200809.pdf.

USEPA. "Workshop on Approaches to Screening for Risk from Pharmaceuticals in Drinking Water." 2008. http://www.epa.gov/waterscience/ppcp/studies/nas-risk.html.

USEPA "Question of the Week: What do you do with unused over-the-counter or prescription drugs?" Web Page maintained by Greenversations, The Official Blog of the US Environmental Protection Agency 2008, http://blog.epa.gov/blog/2008/12/08/qotw-prescription-drug-disposal/.

USEPA "National Rivers and Streams Assessment (NRSA)." Web Page maintained by US Environmental Protection Agency 2008, http://www.epa.gov/owow/riverssurvey.

USEPA. 2008, "Amendment to the Universal Waste Rule: Addition of Pharmaceuticals." US Environmental Protection Agency, 26 pp; http://www.regulations.gov/fdmspublic/component/main?main=DocketDetail&d=EPA-HQ-RCRA-2007-0932.

USEPA "Take-back programs or events for unneeded or expired pharmaceuticals." 2008, http://www.epa.gov/waterscience/ppcp/other/take-back.html.

USEPA. "2006-2007 targeted national sewage sludge survey." Office of Science & Technology, 13 March 2008. 2 pp.

USEPA "Distributed Structure-Searchable Toxicity (DSSTox) Database Network." 2008; http://www.epa.gov/ncct/dsstox/index.html.

USEPA "Pharmaceuticals and Personal Care Products in Water." Web Page maintained by Office of Water 2008, http://www.epa.gov/waterscience/ppcp/.

USEPA "Targeted national sewage sludge survey." Web Page maintained by Office of Water 2008, http://www.epa.gov/waterscience/ppcp/studies/sewage.html.

USEPA "ToxCast™ Program: Predicting Hazard, Characterizing Toxicity Pathways, and Prioritizing the Toxicity Testing of Environmental Chemicals." 2008, http://www.epa.gov/ncct/toxcast/.

USEPA "Green Chemistry Program at EPA." Web Page maintained by U.S. Environmental Protection Agency 2008, http://www.epa.gov/gcc/pubs/epa_gc.html.

USEPA. "Getting Pharmaceuticals Out of Our Water, video on drug disposal practices." USEPA, Region 9, October 2008; http://www.epa.gov/region09/water/watershed/pharma/.

USEPA. "Video Conference - Creating Business Value: Green Quality Through Green Chemistry and Green Engineering In The Pharmaceutical Industry." 2008; http://www.epa.gov/region02/p2/vc_bus_val_gcge_pharmi_1_17_08.html.

USEPA "Pharmaceuticals and Personal Care Products (PPCPs): Relevant Literature." US Environmental Protection Agency 2008; http://www.epa.gov/ppcp/lit.html.

USEPA "Effluent guidelines: Pharmaceutical manufacturing." 2008, http://www.epa.gov/guide/pharm/.

USEPA "Regulatory Information for the Pharmaceuticals Sector." 2008, http://www.epa.gov/lawsregs/bizsector/pharma.html.

USEPA "EDF 'HPV CHEMICAL TRACKER'." Environmental Defense 2008; http://www.edf.org/documents/2734_WelcomeTracker.htm.

USEPA "Drinking Water Contaminant Candidate List and Regulatory Determinations." Web Page maintained by US Environmental Protection Agency 2008, http://www.epa.gov/ogwdw/ccl/index.html.

USEPA. "RCRA Hazardous Waste Identification of Methamphetamine Production Process By-products: Report to Congress Under the USA PATRIOT Improvement and Reauthorization Act of 2005." US Environmental Protection Agency, Washington, DC, 2008, 22 pp; http://www.epa.gov/waste/hazard/wastetypes/wasteid/downloads/rtc-meth.pdf.

USEPA. "Targeted National Sewage Sludge Survey: Overview Report." EPA-822-R-08-014, January 2009. 9 pp; http://www.epa.gov/waterscience/biosolids/tnsss-overview.pdf.

USEPA. 2009, "Proposed Rule Regarding Standards of Performance for New Stationary Sources and Emission Guidelines For Existing Sources: Hospital/Medical/Infectious Waste Incinerators." Agency UEP, US Environmental Protection Agency, 93 pp; http://www.epa.gov/EPA-AIR/2008/December/Day-01/a27732.htm.

USEPA. "The U.S. Environmental Protection Agency's Strategic Plan for Evaluating the Toxicity of Chemicals." EPA 100/K-09/001 Office of the Science Advisor, Science Policy Council, March 2009. 35 pp; http://www.epa.gov/osa/spc/toxicitytesting/.

USEPA. "Questions & Answers for the New Chemicals Program (Q&A)." Washington, DC, US Environmental Protection Agency, Office of Pollution Prevention and Toxics, 2009. 117 pp; http://www.epa.gov/opptintr/newchems/pubs/qanda-newchems.pdf.

USEPA. 2009, "H.R. 1262: Water Quality Investment Act of 2009." http://www.govtrack.us/congress/billtext.xpd?bill=h111-1262.

USEPA. "An Approach to Using Toxicogenomic Data in U.S. EPA Human Health Risk Assessments: A Dibutyl Phthalate (DBP) Case Study (External Review Draft)." May, 2009, http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=205303.

USEPA "Hospital/Medical/Infectious Waste Incinerators." Web Page maintained by US Environmental Protection Agency 2009, http://www.epa.gov/ttn/atw/129/hmiwi/rihmiwi.html.

USEPA "The U.S. Environmental Protection Agency's Strategic Plan for Evaluating the Toxicity of Chemicals." Web Page maintained by US Environmental Protection Agency 2009, http://www.epa.gov/osa/spc/toxicitytesting/.

USEPA "Pharmaceuticals and Personal Care Products (PPCPs): Relevant Literature." Web Page maintained by US Environmental Protection Agency (a comprehensive database of literature references compiled by CG Daughton and MST Scuderi; first implemented 19 February 2008) 2009, http://www.epa.gov/ppcp/lit.html.

USEPA "Targeted National Sewage Sludge Survey Report." Web Page maintained by US Environmental Protection Agency 2009, http://earth1.epa.gov/waterscience/biosolids/tnsss-fs.html, http://www.epa.gov/waterscience/biosolids/tnsss-overview.html, http://www.epa.gov/waterscience/biosolids/.

USEPA "OPPT 'PBT Profiler: A Component of OPPT's P2 Framework - Assessing Chemicals in the Absence of Data'." Environmental Science Center 2009; http://www.pbtprofiler.net/default.asp.

USEPA "OPPT 'PBT Profiler: Chemicals that Should Not be Profiled'." Environmental Science Center 2009; http://www.pbtprofiler.net/Chemicals.asp.

USEPA "Antimicrobial Testing Program." 2009, http://www.epa.gov/oppad001/antimicrobial-testing-program.html.

USEPA. "Nanomaterial Case Studies: Nanoscale Titanium Dioxide (External Review Draft)." US Environmental Protection Agency,

Washington, DC, July, 2009, http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=210206.

USEPA. "Targeted National Sewage Sludge Survey Sampling and Analysis Technical Report." EPA-822-R-08-016, January 2009. 88 pp; http://www.epa.gov/waterscience/biosolids/tnsss-tech.pdf.

USEPA. "Targeted National Sewage Sludge Survey Statistical Analysis Report." EPA-822-R-08-018, January 2009. 58 pp; http://www.epa.gov/waterscience/biosolids/tnsss-stat.pdf.

USEPA "Contaminant Candidate List 3 (CCL 3)." Web Page maintained by U.S. Environmental Protection Agency 2009, http://www.epa.gov/ogwdw000/ccl/ccl3.html.

USEPA. "Occurrence of Contaminants of Emerging Concern in Wastewater From Nine Publicly Owned Treatment Works." U.S. Environmental Protection Agency, Washington, DC, August, 2009, 85 pp; http://www.epa.gov/waterscience/ppcp/studies/9potwstudy.pdf.

USEPA. "Questionnaire for Drinking Water Utilities Participating in Emerging Contaminant Sampling Program." EPA-HQ-ORD-2009-0114, US Environmental Protection Agency, 2009. http://www.regulations.gov/search/Regs/home.html#docketDetail?R=EPA-HQ-ORD-2009-0114.

USEPA. "USEPA/USGS Collaboration on Emerging Contaminants in Drinking Water: Phase II - Personnel, Methodology, and Analyte Listing." EPA-HQ-ORD-2009-0114-0009, US Environmental Protection Agency, 2009. http://www.regulations.gov/search/Regs/home.html#docketDetail?R=EPA-HQ-ORD-2009-0114.

USEPA. "U.S. EPA Voluntary Guidelines for Methamphetamine Laboratory Cleanup." EPA-530-R-08-008, US Environmental Protection Agency, Office of Solid Waste and Emergency Response, 2009. 48 pp; http://www.epa.gov/oem/meth_lab_guidelines.pdf.

USEPA and Grumbles BH. "Letter to Senator Inhofe." Office of Water, Washington, DC, 4 April 2008. 4 pp.

USFDA. "Guidance for industry for the submission of an environmental assessment in human drug applications and supplements." 1995.

USFDA. "Retrospective review of ecotoxicity data submitted in environmental assessments for public display." Docket No. 96N-0057, Washington, DC, US Food and Drug Administration, 1997.

USFDA. "A memo on current good manufacturing practice issues on human use pharmaceuticals." September 1998.

USFDA. "Guidance for Industry: Environmental Assessment of Human Drug and Biologics Application." Center for Biologics Evaluation and Research, CDER/CBER CMC 6, 1 September 1998. 39 pp; http://www.fda.gov/cber/guidelines.htm.

USFDA. 2005, "FDA Public Health Advisory Safety Warnings Regarding Use of Fentanyl Transdermal (Skin) Patches." Center for Drug Evaluation and Research, http://www.fda.gov/cder/drug/advisory/fentanyl_2007.htm.

USFDA. "Guidance for Industry: Nonclinical Studies for the Safety Evaluation of Pharmaceutical Excipients." May 2005. 12 pp; http://www.fda.gov/cder/Guidance/5544fnl.htm.

USFDA. "Guidance for industry: pharmacogenomic data submissions." US Food and Drug Administration, 2005. 28 pp; http://www.fda.gov/cber/gdlns/pharmdtasub.htm; http://www.fda.gov/cber/gdlns/pharmdtasub.pdf.

USFDA. "FDA backgrounder on conjugated estrogens." US Food and Drug Administration, 7 July, 2005, 4 pp; http://www.fda.gov/CDER/news/cebackground.htm.

USFDA. "FDA Authority Over Cosmetics." CFSAN/Office of Cosmetics and Colors, 3 March 2005. http://www.cfsan.fda.gov/~dms/cos-206.html.

USFDA. "Guidance for Industry: General Principles for Evaluating the Safety of Compounds Used in Food-producing Animals." US Food and Drug Administration, 25 July, 2006, 42 pp; http://www.fda.gov/cvm/Guidance/GFI003.pdf.

USFDA. "Guidance for Industry: Complementary and Alternative Medicine Products and Their Regulation, Draft Guidance." Center for Drug Evaluation and Research C, 2006D-0481, GDL 1, 2006. http://www. fda.gov/cber/guidelines.htm.

USFDA. "Guidance for Industry: Nonclinical safety evaluation of pediatric drug products." Center for Drug Evaluation and Research C, Rockville, MD, 2006. http://www.fda.gov/cder/guidance/index.htm.

USFDA. "Guidance for FDA Staff and Industry: Marketed Unapproved Drugs — Compliance Policy Guide." June 2006. 15 pp; http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM070290.pdf.

USFDA. "Nanotechnology A Report of the U.S. Food and Drug Administration Nanotechnology Task Force." US Food and Drug Administration, 25 July, 2007, http://www.fda.gov/nanotechnology/nano_tf.html http://www.fda.gov/nanotechnology/taskforce/report2007.html.

USFDA "Cumulative Estimated Daily Intake/Acceptable Daily Intake Database." CFSAN/Office of Food Additive Safety 2007; http://www.cfsan.fda.gov/~dms/opa-edi.html.

USFDA "Guidance documents." 2008; http://www.fda.gov/cder/guidance/index.htm#clinical%20medicine.

USFDA. "The Sentinel Initiative: National Strategy for Monitoring Medical Product Safety." US Food and Drug Administration, May 2008. http://www.fda.gov/oc/initiatives/advance/reports/report0508.pdf.

USFDA "Environmental impact: claims for categorical exclusion." Web Page maintained by Office of Pharmaceutical Science (OPS) Environmental Impact Review at CDER 2008, http://www.fda.gov/AboutFDA/CentersOffices/CDER/ucm088977.htm.

USFDA "National Nanotechnology Initiative." 2008, http://www.fda.gov/nanotechnology/.

USFDA "Drugs@FDA." 2008; http://www.accessdata.fda.gov/scripts/cder/drugsatfda/index.cfm.

USFDA "FDA's Sentinel Initiative: National Strategy for Monitoring Medical Product Safety." Web Page maintained by US Food and Drug Administration 2008, http://www.fda.gov/oc/initiatives/advance/sentinel/.

USFDA "Table of Valid Genomic Biomarkers in the Context of Approved Drug Labels." Web Page maintained by Center for Drug Evaluation and Research, U.S. Food and Drug Administration 2008, http://www.fda.gov/Drugs/ScienceResearch/ResearchAreas/Pharmacogenetics/ucm083378.htm.

USFDA. "How to dispose of unused medicines." Consumer Health Information,, 14 April 2009. 2 pp; http://www.fda.gov/ForConsumers/ConsumerUpdates/ucm101653.htm.

USFDA. 2009, "FDA: First Drug to Treat Cancer in Dogs Approved." U.S. Food and Drug Administration, 1 pp; http://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm164118.htm.

USFDA "Adverse Event Reporting System (AERS)." US Food and Drug Administration 2009; http://www.fda.gov/cder/aers/default.htm.

USFDA "MedWatch: The FDA Safety Information and Adverse Event Reporting Program." Web Page maintained by Center for Drug Evaluation and Research, (CDER) 2009, http://www.fda.gov/medwatch/.

USFDA "National Drug Code Directory." US Food and Drug Adminstration 2009; http://www.accessdata.fda.gov/scripts/cder/ndc/default.cfm, http://www.fda.gov/cder/ndc/database/" http://www.fda.gov/cder/ndc/database/.

USFDA "Unapproved Drugs: Drugs Marketed in the United States That Do Not Have Required FDA Approval." 2009, http://www.fda.gov/Drugs/GuidanceComplianceRegulatoryInformation/EnforcementActivitiesbyFDA/SelectedEnforcementActionsonUnapprovedDrugs/default.htm.

USFDA. "Guidance for Industry: Incorporation of physical - chemical identifiers into solid oral dosage form drug products for anticounterfeiting." US Food and Drug Administration, 9 July, 2009, 11 pp; http://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM171575.pdf.

USFDA "Approved Drug Products with Therapeutic Equivalence Evaluations (Orange Book)." Web Page maintained by US Food and Drug Administration 2009, http://www.fda.gov/Drugs/InformationOnDrugs/ucm129662.htm.

USFDA. "Approved Drug Products with Therapeutic Equivalence Evaluations." 2009, 29th ed., 1160 pp; http://www.fda.gov/downloads/Drugs/DevelopmentApprovalProcess/UCM071436.pdf.

USFDA "New FDA Web Page Lists Disposal Instructions for Select Medicines." 2009, http://www.fda.gov/NewsEvents/Newsroom/PressAnnouncements/ucm186598.htm.

USFDA "Disposal by Flushing of Certain Unused Medicines: What You Should Know." 2009, http://www.fda.gov/Drugs/ResourcesForYou/Consumers/BuyingUsingMedicineSafely/EnsuringSafeUseofMedicine/SafeDisposalofMedicines/ucm186187.htm.

USFDA "Medicines Recommended for Disposal by Flushing." 2009, http://www.fda.gov/Drugs/ResourcesForYou/Consumers/BuyingUsingMedicineSafely/EnsuringSafeUseofMedicine/SafeDisposalofMedicines/ucm186187.htm#MEDICINES.

USFDA NCTR "Center for Toxicoinformatics." National Center for Toxicological Research 2008; http://www.fda.gov/nctr/science/centers/toxicoinformatics/index.htm.

USFWS "SMARxT Disposal: A Prescription for a Healthy Planet." Web Page maintained by U.S. Fish and Wildlife Service, the American Pharmacists Association, and the Pharmaceutical Research and Manufacturers of America 2008, http://www.smarxtdisposal.net/.

USGAO. "Water pollution: Poor quality assurance and limited pollutant coverage undermine EPA's control of toxic substances." GAO/PEMD-94-9, United States Government Accountability Office, 1994. 87 pp.

USGAO. "Offshore Marine Aquaculture, Multiple administrative and environmental issues need to be addressed in establishing a US regulatory framework." GAO-08-594, United States Government Accountability Office, May 2008. 54 pp.

USGS. "Biosolids, Animal Manure, and Earthworms: Is There a Connection?" US Geological Survey, 2008, 4 pp; http://toxics.usgs.gov/highlights/earthworms.html.

USGS. "Emerging Contaminants Targeted in a Reconnaissance of Ground Water and Untreated Drinking-Water Sources." US Geological Survey, 2008. http://toxics.usgs.gov/highlights/gwsw_ec.html.

USGS "Aquaculture Drug Research and Development." Web Page maintained by US Geological Survey 2008, http://www.umesc.usgs.gov/aquatic/aquaculture_drug.html.

USGS "USGS to release water contamination reports." Web Page maintained by US Geological Survey 2008, http://members.sej.org/sej/tipsheet.php?rssID=2394&viewt=tipsheet.

Uslu MÖ and Akmehmet BalcIoglu I. "Comparison of the ozonation and Fenton process performances for the treatment of antibiotic containing manure." *Science of the Total Environment* **2009**, *407*(11):3450-3458; doi:10.1016/j.scitotenv.2009.01.045.

Uslu MÖ and Akmehmet Balcioğlu I. "Simultaneous Removal of Oxytetracycline and Sulfamethazine Antibacterials from Animal Waste by Chemical Oxidation Processes." *Journal of Agricultural and Food Chemistry* **2009**, *In press*; doi:10.1021/jf902188j.

Uslu MÖ, Yediler A, Akmehmet Balcioğlu I, and Schulte-Hostede S. "Analysis and Sorption Behavior of Fluoroquinolones in Solid Matrices." *Water, Air, & Soil Pollution* **2008**, *190*(1):55-63; doi:10.1007/s11270-007-9580-0.

USPS "600: Basic Standards for All Mailing Services, 601 Mailability, section 11.11 Drugs." Web Page maintained by United States Postal Service 2009, http://pe.usps.com/text/dmm300/601.htm#wp1189257.

Uyaguari MI, Key PB, Moore J, Jackson K, and Scott G. "Acute Effects of the Antibiotic Oxytetracycline on the Bacterial Community of the Grass Shrimp, Palaemonetes pugio." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2715-2724; doi:10.1897/08-514.1.

Uysal F and Tinmaz E. "Medical waste management in Trachea region of Turkey: suggested remedial action." *Waste Management & Research* **2004**, *22*(5):403-407; doi:10.1177/0734242x04045690.

Vaccari P, Tonat K, DeChristoforo R, Gallelli J, and Zimmerman P. "Disposal of antineoplastic wastes at the National Institutes of Health." *American Journal of Health-System Pharmacy* **1984**, *41*(1):87-93.

Vaccaro E, Meucci V, Intorre L, Soldani G, di Bello D, Longo V*, et al.* "Effects of 17β-estradiol, 4-nonylphenol and PCB 126 on the estrogenic activity and phase 1 and 2 biotransformation enzymes in male sea bass (*Dicentrarchus labrax)*." *Aquatic Toxicology* **2005**, *75*(4):293-305; doi:10.1016/j.aquatox.2005.08.009.

Vaclavik E, Halling-Sorensen B, and Ingerslev F. "Evaluation of manometric respiration tests to assess the effects of veterinary antibiotics in soil." *Chemosphere* **2004**, *56*(7):667-676; doi:10.1016/j.chemosphere.2004.02.018.

Vail J. "Disposing of Expired Drugs and Chemicals: New Options for Compounders." *International Journal of Pharmaceutical Compounding* **2008**, *12*(1):38-47.

Vajda AM, Barber LB, Gray JL, Lopez EM, Woodling JD, and Norris DO. "Reproductive Disruption in Fish Downstream from an Estrogenic Wastewater Effluent." *Environmental Science & Technology* **2008**, *42*(9):3407-3414; doi:10.1021/es0720661.

Valavanidis A, Vlahogianni T, Dassenakis M, and Scoullos M. "Molecular biomarkers of oxidative stress in aquatic organisms in relation to toxic environmental pollutants." *Ecotoxicology and Environmental Safety* **2006**, *64*(2):178-189; doi:10.1016/j.ecoenv.2005.03.013.

Valdersnes S, Kallenborn R, and Sydnes LK. "Identification of several Tonalide (R) transformation products in the environment." *International Journal of Environmental Analytical Chemistry* **2006**, *86*(7):461-471.

Valenti Jr TW, Perez Hurtado P, Chambliss CK, and Brooks BW. "Aquatic toxicity of sertraline to Pimephales promelas at environmentally relevant surface water pH." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2685-2694; doi:10.1897/08-546.1.

Valigra L. "Packaging Trends: The Right Package for Aging Boomers Recyclable, sustainable, and boutique packaging may become the vogue, but low cost and convenience will prevail." *Pharmaceutical Formulation & Quality* **2008**, *10*(4):36-39.

Valtchev M, Palm BS, Schiller M, and Steinfeld U. "Development of sulfamethoxazole-imprinted polymers for the selective extraction from waters." *Journal of Hazardous Materials* **2009**, *170*(2-3):722-728; doi:10.1016/j.jhazmat.2009.05.007.

Valters K, Li H, Alaee M, D'Sa I, Marsh G, Bergman A*, et al.* "Polybrominated Diphenyl Ethers and Hydroxylated and Methoxylated Brominated and Chlorinated Analogues in the Plasma of Fish from the Detroit River." *Environmental Science & Technology* **2005**, *39*(15):5612-5619; doi:10.1021/es0506410.

Valverde RS, Garcia MDG, Galera MM, and Goicoechea HC. "Determination of tetracyclines in surface water by partial least squares using multivariate calibration transfer to correct the effect of solid phase preconcentration in photochemically induced fluorescence signals." *Analytica Chimica Acta* **2006**, *562*(1):85-93; doi:10.1016/j.aca.2006.01.035.

Valverde RS, Garcia MDG, Galera MM, and Goicoechea HC. "Highly collinear three-way photoinduced spectrofluorimetric data arrays modelled with bilinear least-squares: Determination of tetracyclines in surface water samples." *Talanta* **2006**, *70*(4):774-783; doi:10.1016/j.talanta.2006.01.037.

van Aerle R, Pounds N, Hutchinson TH, Maddix S, and Tyler CR. "Window of Sensitivity for the Estrogenic Effects of Ethinylestradiol in Early Life-Stages of Fathead Minnow, Pimephales promelas." *Ecotoxicology* **2002**, *11*(6):423-434; doi:10.1023/A:1021053217513.

Van Bambeke F, Balzi E, and Tulkens PM. "Antibiotic efflux pumps." *Biochemical Pharmacology* **2000**, *60*(4):457-470; doi:10.1016/S0006-2952(00)00291-4.

van Beelen ESE. "Municipal Waste Water Treatment Plant (WWTP) Effluents: a Concise Overview of the Occurrence of Organic Substances." RIWA Rhine Water Works The Netherlands, July, 2007, 34 pp; http://www.riwa-rijn.org/e_publikaties/147_WWTP_organic_subst.pdf.

Van De Steene JC and Lambert WE. "Validation of a solid-phase extraction and liquid chromatography-electrospray tandem mass spectrometric method for the determination of nine basic pharmaceuticals in wastewater and surface water samples." *Journal of Chromatography A* **2008**, *1182*(2):153-160; doi:10.1016/j.chroma.2008.01.012.

Van De Steene JC and Lambert WE. "Comparison of Matrix Effects in HPLC-MS/MS and UPLC-MS/MS Analysis of Nine Basic Pharmaceuticals in Surface Waters." *Journal of the American Society for Mass Spectrometry* **2008**, *19*(5):713-718.

Van De Steene JC, Mortier KA, and Lambert WE. "Tackling matrix effects during development of a liquid chromatographic-electrospray ionisation tandem mass spectrometric analysis of nine basic pharmaceuticals in aqueous environmental samples." *Journal of Chromatography A* **2006**, *1123*(1):71-81.

Van den Belt K, Berckmans P, Vangenechten C, Verheyen R, and Witters H. "Comparative study on the in vitro in vivo estrogenic potencies of 17β-estradiol, estrone, 17α-ethynylestradiol and nonylphenol." *Aquatic Toxicology* **2004**, *66*(2):183-195; doi:10.1016/j.aquatox.2003.09.004.

Van den Belt K, Verheyen R, and Witters H. "Reproductive effects of ethynylestradiol and 4t-octylphenol on the zebrafish (Danio

rerio)." *Archives of Environmental Contamination and Toxicology* **2001**, *41*(4):458-467; doi:10.1007/s002440010272.

Van den Belt K, Verheyen R, and Witters H. "Comparison of vitellogenin responses in zebrafish and rainbow trout following exposure to environmental estrogens." *Ecotoxicology and Environmental Safety* **2003**, *56*(2):271-281; doi:10.1016/S0147-6513(03)00004-6.

Van den Belt K, Verheyen R, and Witters H. "Effects of 17α-ethynylestradiol in a partial life-cycle test with zebrafish (Danio rerio): effects on growth, gonads and female reproductive success." *Science of the Total Environment* **2003**, *309*(1-3):127-137; doi:10.1016/S0048-9697(03)00046-9.

Van den Belt K, Wester PW, van der Ven LTM, Verheyen R, and Witters H. "Effects of ethynylestradiol on the reproductive physiology in zebrafish (danio rerio): time dependency and reversibility." *Environmental Toxicology and Chemistry* **2002**, *21*(4):767-775; doi:10.1897/1551-5028(2002)021<0767:EOEOTR>2.0.CO;2.

van den Brandhof EJ and van der Grinten E. "Effectmetingen van geneesmiddelen. Geschiktheid van bioassays voor het meten van effecten van antibiotica en resultaten van pilotmetingen van ziekenhuis effluent." Rijksinstituut voor Volksgezondheid en Milieu RIVM, RIVM Briefrapport 607013003, 14 December, 2007, http://hdl.handle.net/10029/16452.

Van Den Brink PJ, Tarazona JV, Solomon KR, Knacker T, Van Den Brink NW, Brock TCM*, et al.* "The use of terrestrial and aquatic microcosms and mesocosms for the ecological risk assessment of veterinary medicinal products." *Environmental Toxicology and Chemistry* **2005**, *24*(4):820-829; doi:10.1897/04-268R.1.

Van den Heuvel WJA, Forbis AD, Halley BA, Ku CC, Jacob TA, and Wislocki PG. "Bioconcentration and depuration of avermectin B1a in the bluegill sunfish." *Environmental Toxicology and Chemistry* **1996**, *15*(12):2263-2266; doi:10.1897/1551-5028(1996)015<2263:BADOAB>2.3.CO;2.

van der Aa NGFM, Kommer GJ, de Groot GM, and Versteegh JFM. "Geneesmiddelen in bronnen voor drinkwater: Monitoring, toekomstig gebruik en beleidsmaatregelen [Pharmaceuticals in sources for drinking water: Monitoring, future consumption and policy measures]." RIVM report 609715002/2008, 2008, 63 pp; http://www.rivm.nl/bibliotheek/rapporten/609715002.html.

van der Bogaard AE and Stobberingh EE. "Time to Ban All Antibiotics as Animal Growth Promoting 25 Agents?" *The Lancet* **1996**, *348*(9027):619; doi:10.1016/S0140-6736(05)64838-6.

van der Burg B, Schreurs R, van der Linden S, Seinen W, Brouwer A, and Sonneveld E. "Endocrine effects of polycyclic musks: do we smell a rat?" *International Journal of Andrology* **2008**, *31*(2):188-193; doi:10.1111/j.1365-2605.2007.00831.x.

van der Oost R, Beyer J, and Vermeulen NPE. "Fish bioaccumulation and biomarkers in environmental risk assessment: a review." *Environmental Toxicology and Pharmacology* **2003**, *13*(2):57-149; doi:10.1016/S1382-6689(02)00126-6.

Van Der Schalie WH and Gentile JH. "Ecological risk assessment: implications of hormesis." *Journal of Applied Toxicology* **2000**, *20*(2):131-139.

van der Ven K, De Wit M, Keil D, Moens L, Van Leemput K, Naudts B*, et al.* "Development and application of a brain-specific cDNA microarray for effect evaluation of neuro-active pharmaceuticals in zebrafish (Danio rerio)." *Comparative Biochemistry and Physiology, Part B: Biochemistry and Molecular Biology* **2005**, *141*(4):408-417; doi:10.1016/j.cbpc.2005.05.004.

van der Ven K, Keil D, Moens LN, Hummelen PV, van Remortel P, Maras M*, et al.* "Effects of the antidepressant mianserin in zebrafish: Molecular markers of endocrine disruption." *Chemosphere* **2006**, *65*(10):1836-1845; doi:10.1016/j.chemosphere.2006.03.079.

Van der Ven K, Keil D, Moens LN, Van Leemput K, Van Remortelt P, and De Coen WM. "Neuropharmaceuticals in the environment: Mianserin-induced neuroendocrine disruption in zebrafish (Danio rerio) using cDNA microarrays." *Environmental Toxicology and Chemistry* **2006**, *25*(10):2645-2652; doi:10.1897/05-495R.1.

van der Ven K, Van Dongen W, Maes BUW, Esmans EL, Blust R, and De Coen WM. "Determination of diazepam in aquatic samples by capillary liquid chromatography-electrospray tandem mass spectrometry." *Chemosphere* **2004**, *57*(8):967-973; doi:10.1016/j.chemosphere.2004.08.062.

Van der Ven LTM, Van den Brandhof EJ, Vos JH, and Wester PW. "Effects of the estrogen agonist 17β-estradiol and antagonist tamoxifen in a partial life-cycle assay with zebrafish (danio rerio)." *Environmental Toxicology and Chemistry* **2007**, *26*(1):92-99; doi:10.1897/06-092R1.1.

van der Ven LTM, Wester PW, and Vos JG. "Histophatholoy as a tool for the evaluation of endocrine disruption in zebrafish (danio rerio)." *Environmental Toxicology and Chemistry* **2003**, *22*(4):908-913; doi:10.1897/1551-5028(2003)022<0908:HAATFT>2.0.CO;2.

Van Dusen A. 2008, "Are You Taking Too Many Medications?" Forbes.com, http://www.forbes.com/2008/06/19/health-drugs-prescriptions-forbeslife-cx_avd_0619health.html.

van Gool S. "Possible environmental effects of antibiotic residues in animal manure." *Tijdschr Diergeneeskd [In Dutch]* **1993**, *118*:8-10.

Van Hoeck E, Canale F, Cordero C, Compernolle S, Bicchi C, and Sandra P. "Multiresidue screening of endocrine-disrupting chemicals and pharmaceuticals in aqueous samples by multi-stir bar sorptive extraction–single desorption–capillary gas chromatography/mass spectrometry." *Analytical and Bioanalytical Chemistry* **2009**, *393*(3):907-919; doi:10.1007/s00216-008-2339-7.

van Hoop N, de Wasch K, Okerman L, Reybroeck W, Poelmans S, Noppe H*, et al.* "Validation of a liquid chromatography-tandem mass spectrometric method for the quantification of eight quinolones in bovine muscle, milk and aquacultured products." *Analytica Chimica Acta* **2005**, *529*(1-2):265-272; doi:10.1016/j.aca.2004.07.055.

Van Houten B, Phelps J, Barnes M, and Suk WA. "Editorial: Evaluation scientific impact." *Environmental Health Perspectives* **2000**, *108*(9).

Van Houton B, Phelps J, Barnes M, and Suk WA. "Editorial: Evaluating Scientific Impact." *Environmental Health Perspectives* **2000**, *108*(9).

van Leerdam JA, Hogenboom AC, van der Kooi MME, and de Voogt P. "Determination of polar 1H-benzotriazoles and benzothiazoles in water by solid-phase extraction and liquid chromatography LTQ FT Orbitrap mass spectrometry." *International Journal of Mass Spectrometry* **2009**, *282*(3):99-107; doi:10.1016/j.ijms.2009.02.018.

van Mil JWF, Schulz M, and Tromp TFJD. "Pharmaceutical care, European developments in concepts, implementation, teaching, and research: a review." *Pharmacy World and Science* **2004**, *26*(6):303-311.

van Nuijs ALN, Bervoets L, Jorens PG, Blust R, and neels H. "Sewage epidemiology: Using wastewater to estimate cocaine consumption at national level." in INNOVA-MED: Process and innovative practices in treating and reusing wastewater in the Mediterranean region, Institut Català de Recerca de l 'Water Agency and the Agency Catalonian Water, Girona, Spain, 8-9 October, 2009, 4 pp; http://www.clipmedia.net/galera/ICRA/INNOVA_MED/dossier/abstracts/adrian.pdf.

van Nuijs ALN, Pecceu B, Theunis L, Covaci A, Bervoets L, Dubois N*, et al.* "Cocaïne en metabolieten in Belgische afval- en oppervlaktewateren (COWAT) - Cocaïne et ses métabolites dans les eaux de surface et les eaux de stations d'épuration en Belgique (COWAT) [Cocaine metabolites in Belgium waste and surface waters (COWAT) - Cocaine and its metabolites in surface water and water of purification plants in Belgium (COWAT)]." Belgian Science Policy Office, 2008, 103 pp; http://www.belspo.be/belspo/home/publ/pub_ostc/COWAT.pdf.

van Nuijs ALN, Pecceu B, Theunis L, Dubois N, Charlier C, Jorens PG*, et al.* "Can cocaine use be evaluated through analysis of wastewater? A nation-wide approach conducted in Belgium." *Addiction* **2009**, *104*(5):734-741; doi:10.1111/j.1360-0443.2009.02523.x.

van Nuijs ALN, Pecceu B, Theunis L, Dubois N, Charlier C, Jorens PG*, et al.* "Spatial and temporal variations in the occurrence of cocaine and benzoylecgonine in waste- and surface water from Belgium and removal during wastewater treatment." *Water Research* **2009**, *43*(5):1341-1349; doi:10.1016/j.watres.2008.12.020.

van Nuijs ALN, Pecceu B, Theunis L, Dubois N, Charlier C, Jorens PG*, et al.* "Erratum to "Cocaine and metabolites in waste and surface water across Belgium" [Environmental Pollution 157(2009), 123-129]." *Environmental Pollution* **2009**, *157*(6):1968-1969; doi:10.1016/j.envpol.2008.12.001.

van Nuijs ALN, Pecceu B, Theunis L, Dubois N, Charlier C, Jorens PG*, et al.* "Cocaine and metabolites in waste and surface water across Belgium." *Environmental Pollution* **2009**, *157*(1):123-129; doi:10.1016/j.envpol.2008.07.020; 10.1016/j.envpol.2008.12.001.

van Nuijs ALN, Tarcomnicu I, Bervoets L, Blust R, Jorens PG, Neels H*, et al.* "Analysis of drugs of abuse in wastewater by hydrophilic interaction liquid chromatography-tandem mass spectrometry." *Analytical and Bioanalytical Chemistry* **2009**, *395*(3):819-828; doi:10.1007/s00216-009-3017-0.

van Nuijs ALN, Tarcomnicu I, Bervoets L, Blust R, Neels H, and Covaci A. "Validation of a novel method based on SPE and HILIC-MS/MS for the determination of nine drugs of abuse and their metabolites in wastewater." *Analytical and Bioanalytical Chemistry*

2009, *In Press*.

van Ommeren L and Alm EW. "Development and application of rapid antibiotic resistance analysis for microbial source tracking in the Black River watershed, Michigan." *Lake and Reservoir Management* **2006**, *22*(3):240-244; doi:10.1080/07438140609353901.

van Staden JF and Naidoo EB. "Determination of total iron as Fe(II) in multivitamins, haematinics and natural waters using a sequential injection (SIA) system." *South African Journal of Chemistry - Suid-Afrikaanse Tydskrif Vir Chemie* **2000**, *53*(3):191-205.

van Straalen N and Roelofs D. "Genomics technology for assessing soil pollution." *Journal of Biology* **2008**, *7*(6):19; doi:10.1186/jbiol80.

Van Straalen NM. "Ecotoxicology becomes stress ecology." *Environmental Science & Technology* **2003**, *37*(17):324A-330A; doi:10.1021/es0325720.

van Straalen NM. "Chapter 18 Contaminant concentrations in organisms as indicators of bioavailability: A review of kinetic theory and the use of target species in biomonitoring." *Developments in Soil Science* **2008**, *Volume 32*:449-477; doi:10.1016/S0166-2481(07)32018-7.

van Tellingen O. "The importance of drug-transporting P-glycoproteins in toxicology." *Toxicology Letters* **2001**, *120*(1-3):31-41.

van Vlaardingen PLA and Montforts MHMM. "Geneesmiddelen in het milieu. Twee verkennende studies samengevat [Pharmaceuticals in the environment. A summary of two exploratory studies]." RIVM Rijksinstituut Voor Volksgezondheid en Milieu, Bilthoven, The Netherlandss, August, 1999, 40 pp; http://www.rivm.nl/bibliotheek/rapporten/734301017.html.

van Wezel AP and Jager T. "Comparison of two screening level risk assessment approaches for six disinfectants and pharmaceuticals." *Chemosphere* **2002**, *47*(10):1113-1128; doi:10.1016/S0045-6535(02)00048-6.

van Wezel AP and Kalf D. "Selection of substances deserving policy attention." Rijksinstituut Voor Volksgezondheid en Milieu [National Institute of Public Health and the Environment], RIVM report 601503 017, March, 2000, http://demo.openrepository.com/rivm/handle/10029/9553.

Vanasse G. "Medications Return Program Annual Report: January 1, 2006 –December 31, 2006." PCPSA Post Consumer Pharmaceutical Stewardship Association, British Columbia, 30 June, 2008, 36 pp; http://www.medicationsreturn.ca/ar2007.pdf.

Vandenbergh GF, Adrians D, Verslycke T, and Janssen CR. "Effects of 17α-ethinylestradiol on sexual development of the amphipod Hyalella azteca." *Ecotoxicology and Environmental Safety* **2003**, *54*(2):216-222; doi:10.1016/S0147-6513(02)00030-1.

Vanderford BJ, Pearson R, Rexing D, and Snyder S. "LC/MS/MS analysis of pharmaceuticals, personal care products and steroids using a benchtop double-focusing sector mass spectrometer and a triple quadrupole mass spectrometer." *Abstracts of Papers - American Chemical Society* **2002**, *223*(1 April 7):U512-U512.

Vanderford BJ, Pearson RA, Cody RB, Rexing DJ, and Snyder SA, Eds., "Determination of an unknown system contaminant using LC/MS/MS." American Chemical Society, Washinton, DC, 2003, 96-108 pp.

Vanderford BJ, Pearson RA, Rexing DJ, and Snyder SA. "Analysis of endocrine disruptors, pharmaceuticals, and personal care products in water using liquid chromatography/tandem mass spectrometry." *Analytical Chemistry* **2003**, *75*(22):6265-6274; doi:10.1021/ac034210g.

Vanderford BJ and Snyder SA. "Analysis of pharmaceuticals in water by isotope dilution liquid chromatography/tandem mass spectrometry." *Environmental Science & Technology* **2006**, *40*(23):7312-7320; doi:10.1021/es0613198.

Vanerkar AP, Satyanarayan S, and Dharmadhikari DM. "Toxicity of herbal pharmaceutical wastewater on fish--Lebistes reticulatus (Peter)." *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants and Agricultural Wastes* **2004**, *39*(1):115-123; doi:10.1081/PFC-120027443.

Vanerkar AP, Satyanarayan S, and Dharmadhikari DM. "Enhancement of organic removals in high strength herbal pharmaceutical wastewater." *Environmental Technology* **2005**, *26*:389-395.

Vanerkar AP, Shanta S, and Dharmadhikari DM. "Toxicity of herbal pharmaceutical wastewater on fish - Lebistes reticulatus (Peter)." *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants and Agricultural Wastes* **2004**, *B39*(1):115-123; doi:10.1081/PFC-120027443.

Vang S-H, Kortner TM, and Arukwe A. "Steroidogenic Acute Regulatory (StAR) Protein and Cholesterol Side-Chain Cleavage (P450scc) as Molecular and Cellular Targets for 17α-Ethynylestradiol in Salmon Previtellogenic Oocytes." *Chemical Research in Toxicology* **2007**, *20*(12):1811-1819; doi:10.1021/tx700228g.

Varela NP, Friendship R, and Dewey C. "Prevalence of resistance to 11 antimicrobials among Campylobacter coli isolated from pigs on 80 grower-finisher farms in Ontario." *Canadian Journal of Veterinary Research* **2007**, *71*(3):189-194.

Various. "Toxicology Letters Special Issue." *Toxicology Letters* **2002**, *131*(1):1-143.

Vasconcelos TG, Henriques DM, König A, Martins AF, and Kümmerer K. "Photo-degradation of the antimicrobial ciprofloxacin at high pH: Identification and biodegradability assessment of the primary by-products." *Chemosphere* **2009**, *76*(4):487-493; doi:10.1016/j.chemosphere.2009.03.022.

Vasconcelos TG, Kümmerer K, Henriques DM, and Martins AF. "Ciprofloxacin in Hospital Effluent: Degradation by Ozone and Photoprocesses." *Journal of Hazardous Materials* **2009**, *169*(1-3):1154-1158; doi:10.1016/j.jhazmat.2009.03.143.

Vashon RD, Versteeg DJ, McAvoy DC, and Fendinger NJ. "Aquatic environmental risk assessment of personal care product ingrediants." *Proceedings of the Water Environment Federation* **2005**, *2005*:183-206; doi:10.2175/193864705783867549.

Vasquez I. "Impact of land-applied biosolids on forage quality and water movement during rangeland restoration activities." Doctoral Dissertation, Utah State University, 2008. 93 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2277894,FM=9,SEARCH=MD.Generic Search.

Vasseur P and Pachura S. "A Hydra model to evaluate devepmental [sic] impact." *Environment, Risques & Sante* **2006**, *5*(4):280-283.

Vasskog T, Anderssen T, Pedersen-Bjergaard S, Kallenborn R, and Jensen E. "Occurrence of selective serotonin reuptake inhibitors in sewage and receiving waters at Spitsbergen and in Norway." *Journal of Chromatography A* **2008**, *1185*(2):194-205; doi:10.1016/j.chroma.2008.01.063.

Vasskog T, Berger U, Samuelsen P-J, Kallenborn R, and Jensen E. "Selective serotonin reuptake inhibitors in sewage influents and effluents from Tromso, Norway." *Journal of Chromatography A* **2006**, *1115*(1-2):187-195; doi:10.1016/j.chroma.2006.02.091.

Vasskog T, Bergersen O, Anderssen T, Jensen E, and Eggen T. "Depletion of selective serotonin reuptake inhibitors during sewage sludge composting." *Waste Management* **2009**, *29*(11):2808-2815; doi:10.1016/j.wasman.2009.06.010.

Vasudevan D, Bruland GL, Torrance BS, Upchurch VG, and MacKay AA. "pH-dependent ciprofloxacin sorption to soils: Interaction mechanisms and soil factors influencing sorption." *Geoderma* **2009**, *151*(3-4):68-76; doi:10.1016/j.geoderma.2009.03.007.

Vaughan S and Smith P. "Estimation of the influence of a river sediment on the biological activity of oxytetracycline hydrochloride." *Aquaculture* **1996**, *141*(1-2):67-76; doi:10.1016/0044-8486(95)01234-6.

Vazquez-Roig P, Segarra R, Blasco C, Andreu V, and Picó Y. "Determination of pharmaceuticals in soils and sediments by pressurized liquid extraction and liquid chromatography tandem mass spectrometry." *Journal of Chromatography A* **2010**, *In Press, Accepted Manuscript*; doi:10.1016/j.chroma.2009.11.033.

Veber DF, Johnson SR, Cheng HY, Smith BR, Ward KW, and Kopple KD. "Molecular Properties That Influence the Oral Bioavailability of Drug Candidates." *Journal of Medicinal Chemistry* **2002**, *45*(12):2615-2623; doi:10.1021/jm020017n.

Vedantham G, Carothers SL, Belfort G, and Przybycien TM. "Structural response of bovine growth hormone to dead-ended ultrafiltration." *Separation Science and Technology* **2003**, *38*:251-270; doi:10.1081/SS-120016574.

Vega D, Agui L, Gonzalez-Cortes A, Yanez-Sedeno P, and Pingarron JM. "Electrochemical detection of phenolic estrogenic compounds at carbon nanotube-modified electrodes." *Talanta* **2007**, *71*(3):1031-1038; doi:10.1016/j.talanta.2006.05.071.

Vega-Lopez A, Ramon-Gallegos E, Galar-Martinez M, Jimenez-Orozco FA, Garcia-Latorre E, and Dominguez-Lopez ML. "Estrogenic, anti-estrogenic and cytotoxic effects elicited by water from the type localities of the endangered goodeid fish Girardinichthys viviparus." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2007**, *145*(3):394-403; doi:10.1016/j.cbpc.2007.01.008.

Velagaleti R. "Behavior of pharmaceutical drugs (human and animal health) in the environment." *Drug Information Journal* **1997**, *31*(3):715-722.

Velagaleti R and Burns P. "A review of the industrial ecology of particulate pharmaceuticals and waste minimization approaches." *Particulate Science and Technology* **2007**, *25*(2):117-127; doi:10.1080/02726350701257535.

Velagaleti R, Burns PK, Gill M, and Prothro J. "Impact of current good manufacturing practices and emission regulations and guidances on the discharge of pharmaceutical chemicals into the environment from manufacturing, use, and disposal." *Environmental Health Perspectives* **2002**, *110*(3):213-220.

Velagaleti R and Gill M. "Regulatory oversight for the environmental assessment of human and animal health drugs: environmental assessment regulations for drugs." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 18, pp 320-332; doi:10.1021/bk-2001-0791.ch018; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Velagaleti R and Gill M. "Degradation and depletion of pharmaceuticals in the environment." in *Pharmaceuticals and personal care products in the environment: Scientific and regulatory issues*, Daughton CG and Jones-Lepp TL, Eds., American Chemical Society; Washington, DC, 2001, ACS Symposium Series 791, Chapter 19, pp 333-345; doi:10.1021/bk-2001-0791.ch019; http://pubs.acs.org/isbn/9780841237391?prevSearch=&searchHistoryKey=.

Veldhoen N, Lowe CJ, Davis C, Mazumder A, and Helbing CC. "Gene expression profiling in the deep water horse mussel Modiolus modiolus (L.) located near a marine municipal wastewater outfall." *Aquatic Toxicology* **2009**, *93*(2-3):116-124; doi:10.1016/j.aquatox.2009.04.002.

Veldhoen N, Skirrow RC, Osachoff H, Wigmore H, Clapson DJ, Gunderson MP*, et al.* "The bactericidal agent triclosan modulates thyroid hormone-associated gene expression and disrupts postembryonic anuran development." *Aquatic Toxicology* **2006**, *80*(3):217-227; doi:10.1016/j.aquatox.2006.08.010.

Veldhoen N, Skirrow RC, Osachoff H, Wigmore H, Clapson DJ, Gunderson MP*, et al.* "Corrigendum to "The bactericidal agent triclosan modulates thyroid hormone-associated gene expression and disrupts postembryonic anuran development" [Aquat. Toxicol. 80 (2006) 217-227]." *Aquatic Toxicology* **2007**, *83*(1):84; doi:10.1016/j.aquatox.2007.03.009.

Velicu M and Suri R. "Presence of steroid hormones and antibiotics in surface water of agricultural, suburban and mixed-use areas." *Environmental Monitoring and Assessment* **2009**, *154*(1-4):349-359; doi:10.1007/s10661-008-0402-7.

Venglovsky J, Sasakova N, and Placha I. "Pathogens and antibiotic residues in animal manures and hygienic and ecological risks related to subsequent land application." *Bioresource Technology* **2009**, *100*(22):5386-5391; doi:10.1016/j.biortech.2009.03.068.

Venhuis BJ, Barends DM, Zwaagstra ME, and de Kaste D. "Recent developments in counterfeits and imitations of Viagra, Cialis and Levitra: A 2005-2006 update." RIVM (Netherlands National Institute for Public Health and the Environment), RIVM Report 370030001/2007, Bilthoven, the Netherlands, 2007, 61 pp.

Venhuis BJ and de Kaste D. "Sildenafil analogs used for adulterating marihuana." *Forensic Science International* **2008**, *182*(1-3):e23-e24; doi:10.1016/j.forsciint.2008.09.002.

Vera-Candioti L, García MDG, Galera MM, and Goicoechea HC. "Chemometric assisted solid-phase microextraction for the determination of anti-inflammatory and antiepileptic drugs in river water by liquid chromatography diode array detection." *Journal of Chromatography A* **2008**, *1211*(1-2):22-32; doi:10.1016/j.chroma.2008.09.093.

Verbruggen EMJ, van Loon WMGM, Tonkes M, van Duijn P, Seinen W, and Hermens JLM. "Biomimetic Extraction as a Tool To Identify Chemicals with High Bioconcentration Potential: An Illustration by Two Fragrances in Sewage Treatment Plant Effluents and Surface Waters." *Environmental Science & Technology* **1999**, *33*(5):801-806; doi:10.1021/es980747d.

Verenitch S and Mazumder A. "Development of a methodology utilizing gas chromatography ion-trap tandem mass spectrometry for the determination of low levels of caffeine in surface marine and freshwater samples." *Analytical and Bioanalytical Chemistry* **2008**, *391*(7):2635-2646; doi:10.1007/s00216-008-2174-x.

Verenitch SS, Lowe CJ, and Mazumder A. "Determination of acidic drugs and caffeine in municipal wastewaters and receiving waters by gas chromatography-ion trap tandem mass spectrometry." *Journal of Chromatography A* **2006**, *1116*(1-2):193-203; doi:10.1016/j.chroma.2006.03.005.

Vergili I and Barlas H. "Removal of selected pharmaceutical compounds from water by an organic polymer resin." *Journal of Scientific & Industrial Research* **2009**, *68*:417-425.

Verliefde A, Cornelissen E, Amy G, Van der Bruggen B, and van Dijk H. "Priority organic micropollutants in water sources in Flanders and the Netherlands and assessment of removal possibilities with nanofiltration." *Environmental Pollution* **2007**, *146*(1):281-289; doi:10.1016/j.envpol.2006.01.051.

Verliefde ARD, Cornelissen ER, Heijman SGJ, Petrinic I, Luxbacher T, Amy GL*, et al.* "Influence of membrane fouling by (pretreated) surface water on rejection of pharmaceutically active compounds (PhACs) by nanofiltration membranes." *Journal of Membrane Science* **2009**, *330*(1-2):90-103; doi:10.1016/j.memsci.2008.12.039.

Verliefde ARD, Heijman SGJ, Cornelissen ER, Amy G, Van der Bruggen B, and van Dijk JC. "Influence of electrostatic interactions on the rejection with NF and assessment of the removal efficiency during NF/GAC treatment of pharmaceutically active compounds in surface water." *Water Research* **2007**, *41*(15):3227-3240; doi:10.1016/j.watres.2007.05.022.

Verma B, Headley JV, and Robarts RD. "Behaviour and fate of tetracycline in river and wetland waters on the Canadian Northern Great Plains." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances & Environmental Engineering* **2007**, *42*(2):109-117; doi:10.1080/10934520601011163.

Verma B, Robarts R, and Headley JV. "Impacts of Tetracycline on Planktonic Bacterial Production in Prairie Aquatic Systems." *Microbial Ecology* **2007**, *54*(1):52-55; doi:10.1007/s00248-006-9170-5.

Verma LK and Mani S. "Biomedical waste management in nursing homes and smaller hospitals in Delhi." *Waste Management* **2008**, *28*(12):2723-2734; doi:10.1016/j.wasman.2007.12.013.

Vermeire E, Hearnshaw H, Van Royen P, and Denekens J. "Patient adherence to treatment: three decades of research. A comprehensive review." *Journal of Clinical Pharmacy and Therapeutics* **2001**, *26*(5):331-342; doi:10.1046/j.1365-2710.2001.00363.x.

Vermeirssen E, Eggen R, Escher B, and Suter M. "Estrogens in Swiss rivers and effluents - Sampling matters." *Chimia* **2008**, *62*(5):389-394; doi:10.2533/chimia.2008.389.

Vermeirssen E, euml, M. nL, Burki R, Joris C, Peter A*, et al.* "Characterization of the estrogenicity of Swiss midland rivers using a recombinant yeast bioassay and plasma vitellogenin concentrations in feral male brown trout." *Environmental Toxicology and Chemistry* **2005**, *24*(9):2226-2233; doi:10.1897%2F04-305R.1.

Vermeirssen EL, Asmin J, Escher BI, Kwon JH, Steimen I, and Hollender J. "The role of hydrodynamics, matrix and sampling duration in passive sampling of polar compounds with Empore SDB-RPS disks." *Journal of Environmental Monitoring* **2008**, *10*(1):119-128; doi:10.1039/b710790k.

Vermeirssen ELM, Bramaz N, Hollender J, Singer H, and Escher BI. "Passive sampling combined with ecotoxicological and chemical analysis of pharmaceuticals and biocides - evaluation of three Chemcatcher(TM) configurations." *Water Research* **2009**, *43*(4):903-914; doi:10.1016/j.watres.2008.11.026.

Vermeirssen ELM, Körner O, Schönenberger R, Suter MJ-F, and Burkhardt-Holm P. "Characterization of environmental estrogens in river water using a three pronged approach: active and passive water sampling and the analysis of accumulated estrogens in the bile of caged fish." *Environmental Science & Technology* **2005**, *39*(21):8191-8198; doi:10.1021/es050818q.

Vermeirssen ELM, Suter MJF, and Burkhardt-Holm P. "Estrogenicity patterns in the Swiss midland river Lutzelmurg in relation to treated domestic sewage effluent discharges and hydrology." *Environmental Toxicology and Chemistry* **2006**, *25*(9):2413-2422; doi:10.1897/05-515R1.1.

Veronin MA and Youan B-BC. "Magic Bullet Gone Astray: Medications and the Internet." *Science* **2004**, *305*(5683):481; doi:10.1126/science.1097355.

Verplanck PL, Taylor HE, Nordstrom DK, and Barber LB. "Aqueous stability of gadolinium in surface waters receiving sewage treatment plant effluent, Boulder Creek, Colorado." *Environmental Science & Technology* **2005**, *39*(18):6923-6929; doi:10.1021/es048456u.

Verslycke T, Ghekiere A, Raimondo S, and Janssen C. "Mysid crustaceans as standard models for the screening and testing of endocrine-disrupting chemicals." *Ecotoxicology* **2007**, *16*(1):205-219.

Verslycke T, Peoelmans S, De Wasch K, De Brabander HF, and Janssen CR. "Testosterone and energy metabolism in the estuarine mysid Neomysis integer (Crustacea: Mysidacea) following exposure to endocrine disruptors." *Environmental Toxicology and*

Chemistry **2004**, *23*(5):1289-1296; doi:10.1897/03-338.

Verslycke T, Vandenbergh GF, Versonnen B, Arijs K, and Janssen CR. "Induction of vitellogenesis in 17α-ethinylestradiol-exposed rainbow trout (Oncorhynchus mykiss): a method comparison." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2002**, *132*(4):483-492; doi:10.1016/S1532-0456(02)00111-4.

Versonnen BJ and Janssen CR. "Xenoestrogenic effects of ethinylestradiol in zebrafish (Danio rerio)." *Environmental Toxicology* **2004**, *19*(3):198-206; doi:10.1002/tox.20012.

Versteeg DJ, Alder AC, Cunningham VL, Kolpin DW, Murray-Smith R, and Ternes T. "Environmental exposure modeling and monitoring of human pharmaceutical concentrations in the environment." in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Willams RT, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 3, pp 71-110; https://www.setac.net/setacssa/ecssashop.show_product_detail?p_mode=detail&p_product_serno=202&p_cust_id=&p_order_serno=&p_promo_cd=&p_price_cd=&p_category_id=BOOKS.

Versteegh JFM, Stolker AAM, Niesing W, and Muller JJA. "Geneesmiddelen in drinkwater en drinkwaterbronnen [Pharmaceuticals in drinking water and sources for drinking water]." RIVM rapport 703719004, 2003, 45 pp; http://www.rivm.nl/bibliotheek/rapporten/703719004.html.

Versteegh JFM, van der Aa NGFM, and Dijkman E. "Geneesmiddelen in drinkwater en drinkwaterbronnen: Resultaten van het meetprogramma 2005/2006 [Pharmaceuticals in drinking water and resources for drinking waterand resources for drinking water: Results of the measurement program 2005/2006]." Rijksinstituut voor Volksgezondheid en Milieu RIVM, RIVM rapport 703719016, Bilthoven, The Netherlands, 13 September, 2007, 53 pp; http://hdl.handle.net/10029/16416, http://www.narcis.info/dare/query/aquatic+pharmaceuticals/RecordID/oairivmopenrepositorycom1002916416/Language/en/repository_id/rivm, http://www.rivm.nl/bibliotheek/rapporten/703719016.html.

Verstraeten I, Heberer T, and Scheytt T. "Occurrence, Characteristics, Transport, and Fate of Pesticides, Pharmaceuticals, Industrial Products, and Personal Care Products at Riverbank Filtration Sites." in *Riverbank Filtration*, Springer Netherlands; 2003, 9, pp 175-227; doi:10.1007/0-306-48154-5; http://dx.doi.org/10.1007/0-306-48154-5_10, http://books.google.com/books?hl=en&lr=&id=fl0aYSGaUa8C&oi=fnd&pg=PA175&dq=daughton+sewage&ots=mrRGRKAJvi&sig=M-OiPh4E6tXGs7UaruVUidY1odo#v=onepage&q=daughton%20sewage&f=false.

Verstraeten IM, Fetterman GS, Meyer MT, Bullen T, and Sebree SK. "Use of tracers and isotopes to evaluate vulnerability of water in domestic wells to septic waste." *Ground Water Monitoring & Remediation* **2005**, *25*(2):107-117; doi:10.1111/j.1745-6592.2005.0015.x.

Verstraeten IM, Heberer T, Vogel JR, Speth T, Zuehlke S, and Duennbier U. "Occurrence of Endocrine-Disrupting and Other Wastewater Compounds during Water Treatment with Case Studies from Lincoln, Nebraska and Berlin, Germany." *Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management* **2003**, *7*(4):253-263; doi:10.1061/(ASCE)1090-025X(2003)7:4(253).

Vestara. "A vital step in managing pharmaceutical waste." Mankes RF and Lee L, Eds., 2005, 15 pp; http://www.vestara.com/focus/regulatory.asp.

Vestara "Vestara Launches EcoRexNS To Reduce Pharmaceutical Waste Pollution." 2008, http://www.solidwaste.com/article.mvc/Vestara-Launches-EcoRexNS-To-Reduce-Pharmaceu-0002?VNETCOOKIE=NO.

Vethaak AD, Lahr J, Schrap SM, Belfroid AC, Rijs GBJ, Gerritsen A*, et al.* "An integrated assessment of estrogenic contamination and biological effects in the aquatic environment of The Netherlands." *Chemosphere* **2005**, *59*(4):511-524; doi:10.1016/j.chemosphere.2004.12.053.

Vethaak AD, Rijs GBJ, Schrap SM, Ruiter H, Gerritsen A, and Lahr J. "Estrogens and xeno-estrogens in the aquatic environment of The Netherlands: Occurrence, potency and biological effects." Institute for Inland Water Management and Waste Water Treatment, Lelystad, The Netherlands, 2002, 292 pp; http://www.fao.org/agris/search/display.do?f=./2002/v2808/NL2002001439.xml;NL2002001439.

Vethaak AD, Rijs GBJ, Schrap SM, Ruiter H, Gerritsen A, and Lahr J. "Estrogens and xenoestrogens in the aquatic environment of The Netherlands. Occurrence, potency, and biological effects." Lelystad, The Netherlands, 2002.

Vethaak D, Schrap M, and de Voogt P. "Estrogens and Xenoestrogens in the Aquatic Environment: An Integrated Approach for Field Monitoring and Effect Assessment." 2007; http://monitoring.environmental-expert.com/resulteachpublication.aspx?cid=5591&codi=4659.

Vetillard A and Bailhache T. "Effects of 4-n-nonylphenol and tamoxifen on salmon gonadotropin-releasing hormone, estrogen receptor, and vitellogenin gene expression in juvenile rainbow trout." *Toxicological Sciences* **2006**, *92*(2):537-544; doi:10.1093/toxsci/kfl015.

Viant MR. "Metabolomics of aquatic organisms: the new 'omics' on the block." *Marine Ecology Progress Series* **2007**, *332*:301-306.

Viant MR, Rosenblum ES, and Tjeerdema RS. "NMR-Based Metabolomics: a powerful approach for characterizing the effects of environmental stressors on organism health." *Environmental Science & Technology* **2003**, *37*(21):4982-4989; doi:10.1021/es034281x.

Vichi P and Tritton TR. "Stimulation of Growth in Human and Murine Cells by Adriamycin." *Cancer Research* **1989**, *49*(10):2679-2682.

Vick AM and Hayton WL. "Methyltestosterone pharmacolinetics [sic] and oral bioavailability in rainbow trout (Oncorhynchus mykiss)." *Aquatic Toxicology* **2001**, *52*(3-4):177-188; doi:10.1016/S0166-445X(00)00146-6.

Vidal AD, Barrales PO, and Diaz AM. "Simultaneous determination of paracetamol, caffeine and propyphenazone in pharmaceuticals by means of a single flow-through UV multiparameter sensor." *Microchimica Acta* **2003**, *141*(3-4):157-163; doi:10.1007/s00604-002-0938-0.

Vidal JLM, Aguilera-Luiz MdM, Romero-González R, and Frenich AG. "Multiclass Analysis of Antibiotic Residues in Honey by Ultraperformance Liquid Chromatography -Tandem Mass Spectrometry." *Journal of Agricultural and Food Chemistry* **2009**, *57*(5):1760-1767; doi:10.1021/jf8034572.

Vidal L, Chisvert A, Canals A, Psillakis E, Lapkin A, Acosta F*, et al.* "Chemically Surface-Modified Carbon Nanoparticle Carrier for Phenolic Pollutants: Extraction and Electrochemical Determination of Benzophenone-3 and Triclosan." *Analytica Chimica Acta* **2008**, *616*(1):28-35; doi:10.1016/j.aca.2008.04.011.

Vieno N, Tuhkanen T, and Kronberg L. "Elimination of pharmaceuticals in sewage treatment plants in Finland." *Water Research* **2008**, *41*(5):1001-1012.

Vieno NM, Harkki H, Tuhkanen, and Kronberg L. "Occurrence of pharmaceuticals in river water and their elimination a pilot-scale drinking water treatment plant." *Environmental Science & Technology* **2007**, *41*(14):5077-5084.

Vieno NM, Tuhkanen T, and Kronberg L. "Seasonal variation in the occurrence of pharmaceuticals in effluents from a sewage treatment plant and in the recipient water." *Environmental Science & Technology* **2005**, *39*(21):8220-8226; doi:10.1021/es051124k.

Vieno NM, Tuhkanen T, and Kronberg L. "Analysis of neutral and basic pharmaceuticals in sewage treatment plants and in recipient rivers using solid phase extraction and liquid chromatography-tandem mass spectrometry detection." *Journal of Chromatography A* **2006**, *1134*(1-2):101-111; doi:10.1016/j.chroma.2006.08.077.

Vieno NM, Tuhkanen T, and Kronberg L. "Removal of pharmaceuticals in drinking water treatment: Effect of chemical coagulation." *Environmental Technology* **2006**, *27*(2):183-192; doi:10.1080/09593332708618632.

Viganò L, Benfenati E, Cauwenberge Av, Eidem JK, Erratico C, Goksøyr A*, et al.* "Estrogenicity profile and estrogenic compounds determined in river sediments by chemical analysis, ELISA and yeast assays." *Chemosphere* **2008**, *73*(7):1078-1089; doi:10.1016/j.chemosphere.2008.07.057.

Vigano L, Mandich A, Benfenati E, Bertolotti R, Bottero S, Porazzi E*, et al.* "Investigating the estrogenic risk along the River Po and its intermediate section." *Archives of Environmental Contamination and Toxicology* **2006**, *51*(4):641-651; doi:10.1007/s00244-005-0129-1.

Viglino L, Aboulfadl K, Mahvelat AD, Prévost M, and Sauvé S. "On-line solid phase extraction and liquid chromatography/tandem mass spectrometry to quantify pharmaceuticals, pesticides and some metabolites in wastewaters, drinking, and surface waters." *Journal of Environmental Monitoring* **2008**, *10*:482-489; doi:10.1039/b800861b.

Viglino L, Aboulfadl K, Prévost M, and Sauvé S. "Analysis of natural and synthetic estrogenic endocrine disruptors in environmental waters using online preconcentration coupled with LC-APPI-MS/MS." *Talanta* **2008**, *76*(5):1088-1096; doi:10.1016/j.talanta.2008.05.008.

Villeneuve D, Blake L, Brodin J, Cavallin J, Durhan E, Jensen K*, et al.* "Effects of a 3β-hydroxysteroid dehydrogenase inhibitor, trilostane, on the fathead minnow reproductive axis." *Toxicological Sciences* **2008**, *104*(1):113-123; doi:10.1093/toxsci/kfn073.

Villeneuve D, Knoebl I, Larkin P, Miracle A, Carter B, Denslow N*, et al.* "Altered gene expression in the brain and liver of female fathead minnows Pimephales promelas Rafinesque exposed to fadrozole." *Journal of Fish Biology* **2008**, *72*(9):2281-2340.

Villeneuve DL, Mueller ND, Martinovic D, Makynen EA, Kahl MD, Jensen KM*, et al.* "Direct Effects, Compensation, and Recovery in Female Fathead Minnows Exposed to a Model Aromatase Inhibitor." *Environmental Health Perspectives* **2009**, *117*(4):624-631; doi:10.1289/ehp.1189.

Vincent G. "The meth plague - anhydrous ammonia is targeted for meth production." *Dealer & Applicator* **2000**:12-16.

Vincent WR, "Multidrug-Resistant Organisms (MDROs) An Overview ("A Review of the Super Bugs")." *Quest Diagnostics Infectious Desease*, February, 2009, 16 2: 1-26 pp; http://www.questdiagnostics.com/hcp/files/id/2009/2009_02.pdf#page=1.

Vincent WR, Wiesner AM, and Steinke DT. ""Free" prescription drug samples are not free." *American Journal of Public Health* **2008**, *98*(8):1348-1349; doi:10.2105/ajph.2008.138800.

Vincenti M, Girolami F, Capra P, Pazzi M, Carletti M, Gardini G*, et al.* "Study of Dexamethasone Urinary Excretion Profile in Cattle by LC - MS/MS: Comparison between Therapeutic and Growth-Promoting Administration." *Journal of Agricultural and Food Chemistry* **2009**, *57*(4):1299-1306; doi:10.1021/jf803465d.

Vione D, Feitosa-Felizzola J, Minero C, and Chiron S. "Phototransformation of clarithromycin in surface waters: kinetics, model predictions and degradation pathways." *Water Research* **2009**, *43*(7):1959-1967; doi:10.1016/j.watres.2009.01.027.

Virlouvet G. "Drug residues in waters: Role of human and veterinary activities." *Environment, Risques & Sante* **2006**, *5*(4):239-241.

Virlouvet G. "Regulation of veterinary drugs in relation to environmental impact." *Environment, Risques & Sante* **2006**, *5*(4):315-319.

Viswanath G, Halder S, Divya G, Majumder CB, and Roy P. "Detection of potential (anti)progestagenic endocrine disruptors using a recombinant human progesterone receptor binding and transactivation assay." *Molecular and Cellular Endocrinology* **2008**, *295*(1-2):1-9; doi:10.1016/j.jhazmat.2008.08.075.

Vivian JC. "Disposal of Controlled Substances." *U.S. Pharmacist* **2009**, *34*(3):38-41.

Vlahos J. "Pill-Polling Pets." The New York Times, 2008, 13 July http://www.nytimes.com/2008/07/13/magazine/13pets-t.html?_r=3&th=&adxnnl=1&oref=slogin&emc=th&adxnnlx=1216044211-WobBtTWPQ1q8E3Ps/G1Zuw&oref=slogin.

Vogel G. "How the body's 'garbage disposal' may inactivate drugs." *Science* **2001**, *291*(5501):35-37; doi:10.1126/science.10.1126/SCIENCE.291.5501.35.

Vogel JR, Barber LB, Furlong ET, Coplen TB, Verstraeten IM, and Meyer MT. "Occurrence of Selected Pharmaceutical and Non-Pharmaceutical Compounds and Stable Hydrogen and Oxygen Isotope Ratios in a Riverbank Filtration Study, Platte River, Nebraska, 2002 to 2005, Volume 2." USGS, 2005, 92 pp; http://pubs.usgs.gov/ds/2005/141/pdf/ds141vol2.pdf.

Vogel JR, Verstraeten IM, Coplen TB, Furlong ET, Meyer MT, and Barber LB. "Occurrence of Selected Pharmaceutical and Non-Pharmaceutical Compounds and Stable Hydrogen and Oxygen Isotope Ratios in a Riverbank Filtration Study, Platte River, Nebraska, 2002 to 2003, Volume 1." USGS, 2003, 72 pp; http://pubs.usgs.gov/ds/2005/117/pdf/ds117_front.pdf.

Vögeli AC. "Endocrine disrupting chemicals – linking internal exposure to effects in wild fish." Doctoral Dissertation, ETH Zurich, Zurich, Switzerland, 2008. 150 pp; http://e-collection.ethbib.ethz.ch/eserv/eth:30864/eth-30864-02.pdf.

Vogna D, Marotta R, Andreozzi R, Napolitano A, and d'Ischia M. "Kinetic and chemical assessment of the UV/H_2O_2 treatment of antiepileptic drug carbamazepine." *Chemosphere* **2004**, *54*(4):497-505; doi:10.1016/S0045-6535(03)00757-4.

Vogna D, Marotta R, Napolitano A, Andreozzi R, and d'Ischia M. "Advanced oxidation of the pharmaceutical drug diclofenac with UV/H_20_2 and ozone." *Water Research* **2004**, *38*(2):414-422; doi:10.1016/j.watres.2003.09.028.

Voigt K and Bruggemann R. "Water contamination with pharmaceuticals: Data availability and evaluation approach with Hasse Diagram Technique and METEOR." *Communications in Mathematical and in Computer Chemistry/MATCH* **2005**, *54*(3):671-689.

Voigt K, Bruggemann R, and Pudenz S. "Information quality of environmental and chemical databases exemplified by high production volume chemicals and pharmaceuticals." *Online Info Review* **2006**, *30*(1):8-23; doi:10.1108/14684520610650273.

Volkmann H, Schwartz T, Bischoff P, Kirchen S, and Obst U. "Detection of clinically relevant antibiotic-resistance genes in municipal wastewater using real-time PCR (TaqMan)." *Journal of Microbiological Methods* **2004**, *56*(2):277-286; doi:10.1016/j.mimet.2003.10.014.

Volmer DA and Hui JPM. "Study of erythromycin A decomposition products in aqueous solution by solid-phase microextraction/liquid chromatography/tandem mass spectrometry." *Rapid Communications in Mass Spectrometry* **1998**, *12*(3):123-129; doi:10.1002/(SICI)1097-0231(19980214)12:3<123::AID-RCM126>3.0.CO;2-4.

vom Saal FS and Welshons WV. "Large effects from small exposures. II. The importance of positive controls in low-dose research on bisphenol A." *Environmental Research* **2006**, *100*(1):50-76; doi:10.1016/j.envres.2005.09.001.

von Gunten U, Janex-Habibi M-L, Ternes TA, and Weber L. "Removal of PPCP during drinking water treatment." in *Human pharmaceuticals, hormones and fragrances: The challenge of micropollutants in urban water management*, Ternes TA and Joss A, Eds., IWA Publishing; London, UK, 2007, Chapter 7, pp 293-322; http://books.google.com/books?id=X9Sb4mVGF-oC&dq=Human+pharmaceuticals,+hormones+and+fragrances:++The+challenge+of+micropollutants+in+urban+water+management&printsec=frontcover&source=bn&hl=en&ei=DzGcSuP5NqWEmQeYscjABA&sa=X&oi=book_result&ct=result&resnum=4#v=onepage&q=&f=false.

von Humanarzneimittelmengen E. "Humanarzneimittel in der Umwelt." Landesumweltamt Brandenburg, Brandenburg, Germany, 1999. 32 pp.

Vosges M, Braguer J-C, and Combarnous Y. "Long-term exposure of male rats to low-dose ethinylestradiol (EE2) in drinking water: Effects on ponderal growth and on litter size of their progeny." *Reproductive Toxicology* **2008**, *25*(2):161-168; doi:10.1016/j.reprotox.2007.12.002.

Voulvoulis N and Lester JN. "Fate of organotins in sewage sludge during anaerobic digestion." *Science of the Total Environment* **2006**, *371*(1-3):373-382; doi:10.1016/j.scitotenv.2006.08.024.

Voutsa D, Hartmann P, Schaffner C, and Giger W. "Benzotriazoles, alkylphenols and bisphenol a in municipal wastewaters and in the Glatt River, Switzerland." *Environmental Science and Pollution Research* **2006**, *13*(5):333-341; doi:10.1065/espr2006.01.295.

Voutsas E, Magoulas K, and Tassios D. "Prediction of the bioaccumulation of persistent organic pollutants in aquatic food webs." *Chemosphere* **2002**, *48*(7):645-651; doi:10.1016/S0045-6535(02)00144-3.

Vrakas D, Giaginis C, and Tsantili-Kakoulidou A. "Different retention behavior of structurally diverse basic and neutral drugs in immobilized artificial membrane and reversed-phase high performance liquid chromatography: Comparison with octanol-water partitioning." *Journal of Chromatography A* **2006**, *1116*(1-2):158-164; doi:10.1016/j.chroma.2006.03.058.

Vrana B, Mills GA, Allan IJ, Dominiak E, Svensson K, Knutsson J*, et al.* "Passive sampling techniques for monitoring pollutants in water." *Trends in Analytical Chemistry* **2005**, *24*(10):845-868; doi:10.1016/j.trac.2005.06.006.

Vu D-T, Nicholas PE, and Erikson CM. "SPME/GC-MS characterization of volatiles associated with cocaine and heroin." *American Laboratory* **2000**, (September):32-34.

Vuckovic D, Cudjoe E, Hein D, and Pawliszyn J. "Automation of Solid-Phase Microextraction in High-Throughput Format and Applications to Drug Analysis." *Analytical Chemistry* **2008**, *80*(18):6870-6880; doi:10.1021/ac800936r.

Vulliet E, Baugros JB, Flament-Waton MM, and Grenier-Loustalot MF. "Analytical methods for the determination of selected steroid sex hormones and corticosteriods in wastewater." *Analytical and Bioanalytical Chemistry* **2007**, *387*(6):2143-2151; doi:10.1007/s00216-006-1084-z.

Waggott A. "Trace organic substances in the River Lee." in *Chemistry in Water Reuse*, Cooper WJ, Ed., Ann Arbor Science; Ann Arbor, Michigan, 1981, Chapter 4, pp 55-99.

Wagner M and Oehlmann J. "Endocrine disruptors in bottled mineral water: total estrogenic burden and migration from plastic bottles." *Environmental Science and Pollution Research* **2009**, *16*(3):278-286; doi:10.1007/s11356-009-0107-7.

Wainwright M. "Methylene blue derivatives -- suitable photoantimicrobials for blood product disinfection?" *International Journal of Antimicrobial Agents* **2000**, *16*(4):381-394; doi:10.1016/S0924-8579(00)00207-7.

Wajsman D and Ruden C. "Identification and evaluation of computer models for predicting environmental concentrations of pharmaceuticals and veterinary products in the Nordic environment." *Journal of Exposure Science and Environmental Epidemiology*

2006, *16*(1):85-97.

Walker CC, Lott HM, and Barker SA. "Matrix solid-phase dispersion extraction and the analysis of drugs and environmental pollutants in aquatic species." *Journal of Chromatography* **1993**, *642*(1-2 (138 ref)):225-242.

Walker CH. "Biomarker strategies to evaluate the environmental effects of chemicals." *Environmental Health Perspectives* **1998**, *106 Suppl 2*:613-620.

Walker D, Brady J, Dalvie D, Davis J, Dowty M, Duncan JN*, et al.* "A Holistic Strategy for Characterizing the Safety of Metabolites through Drug Discovery and Development." *Chemical Research in Toxicology* **2009**, *22*(10):1653-1662; doi:10.1021/tx900213j.

Walker DB, Paretti NV, Cordy G, Gross TS, Zaugg SD, Furlong ET*, et al.* "Changes in Reproductive Biomarkers in an Endangered Fish Species (Bonytail Chub, Gila elegans) Exposed to Low Levels of Organic Wastewater Compounds in a Controlled Experiment." *Aquatic Toxicology* **2009**, *95*(2):133-143; doi:10.1016/j.aquatox.2009.08.008.

Walker JD, Dimitrova N, Dimitrov S, Mekenyan O, and Plewak D. "Use of QSARs to Promote More Cost-Effective Use of Chemical Monitoring Resources. 2. Screening Chemicals for Hydrolysis Half-Lives, Henry's Law Constants, Ultimate Biodegradation Potential, Modes of Toxic Action and Bioavailability." *Water Quality Research Journal of Canada* **2004**, *39*(1):40-49.

Walker JD, Knaebel D, Mayo K, Tunkel J, and Gray DA. "Use of QSARs to Promote More Cost-Effective Use of Chemical Monitoring Resources. 1. Screening Industrial Chemicals and Pesticides, Direct Food Additives, Indirect Food Additives and Pharmaceuticals for Biodegradation, Bioconcentration and Aquatic Toxicity potential." *Water Quality Research Journal of Canada* **2004**, *39*(1):35-39.

Wall R and Strong L. "Environmental consequences of treating cattle with the antiparasitic drug ivermectin." *Nature* **1987**, *327*(6121):418-421.

Wallace L. "DNA Addresses Pharmaceutical Waste in the Water Supply." *DNA Reporter* **2009**, *34*(3):16.

Waller NJ and Kookana R. "Effect of triclosan on microbial activity in Australian soils." *Environmental Toxicology and Chemistry* **2009**, *28*(1):65-70; doi:10.1897/08-224.1.

Walraven N and Laane RWPM. "Assessing the Discharge of Pharmaceuticals Along the Dutch Coast of the North Sea." in *Reviews of Environmental Contamination and Toxicology*, Springer US; 2009, Chapter 1, pp 1-18; doi:10.1007/978-0-387-09808-1_1; http://dx.doi.org/10.1007/978-0-387-09808-1_1.

Walsh C. "Molecular mechanisms that confer antibacterial drug resistance." *Nature* **2000**, *406*:775-781; doi:10.1038/35021219.

Walsh P. 2009, "Owner of Northfield drug disposal service admits selling pills on street." StarTribune.com, http://www.startribune.com/local/52077597.html?elr=KArksLckD8EQDUoaEyqyP4O:D.

Walters A, Santillo D, and Johnston P. "Environmental and human health concerns relating to synthetic musk compounds." Greenpeace Research Laboratories, GRL-TN-07-2005, Exeter, UK, June, 2005, 13 pp; http://dx.doi.org/10.1016/j.watres.2004.04.054.

Walters KA, Brain KR, Green DM, James VJ, Watkinson AC, and Sands RH. "Comparison of the transdermal delivery of estradiol from two gel formulations." *Maturitas* **1998**, *29*(2):189-195; doi:10.1016/S0378-5122(98)00009-7.

Waltman EL. "Concentrations of triclosan in the city of Denton wastewater treatment plant, Pecan Creek, and the influent and effluent of an experimental constructed wetland." Masters Dissertation, University of North Texas, Denton, TX, 2004. 62 pp.

Waltman EL, Venables BJ, and Waller WZ. "Triclosan in a North Texas wastewater treatment plant and the influent and effluent of an experimental constructed wetland." *Environmental Toxicology and Chemistry* **2006**, *25*(2):367-372; doi:10.1897/05-112R.1.

Wammer KH, Lapara TM, McNeill K, Arnold WA, and Swackhamer DL. "Changes in antibacterial activity of triclosan and sulfa drugs due to photochemical transformations." *Environmental Toxicology and Chemistry* **2006**, *25*(6):1480-1486; doi:10.1897/05-384R.1.

Wan G-H, Cui H, Pan Y-L, Zheng P, and Liu L-J. "Determination of quinolones residues in prawn using high-performance liquid chromatography with Ce(IV)-Ru(bpy)$_3^{2+}$-HNO_3 chemiluminescence detection." *Journal of Chromatography B* **2006**, *843*(1):1-9; doi:10.1016/j.jchromb.2006.05.017.

Wan Y, Wei Q, Hu J, Jin X, Zhang Z, Zhen H*, et al.* "Levels, Tissue Distribution, and Age-Related Accumulation of Synthetic Musk

Fragrances in Chinese Sturgeon (Acipenser sinensis): Comparison to Organochlorines." *Environmental Science & Technology* **2007**, *41*(2):424-430; doi:10.1021/es061771r.

Wang A, Hu C, Qu J, Yang M, Liu H, Ru J*, et al.* "Phototransformation of nitrobenzene in the Songhua River: Kinetics and photoproduct analysis." *Journal of Environmental Sciences (China)* **2008**, *20*(7):787-795; doi:10.1016/S1001-0742(08)62127-0.

Wang C, Ding Y, Teppen BJ, Boyd SA, Song C, and Li H. "Role of Interlayer Hydration in Lincomycin Sorption by Smectite Clays." *Environmental Science & Technology* **2009**, *43*(16):6171-6176; doi:10.1021/es900760m.

Wang F-Q, Zhang C-G, Li B, Wei D-Z, and Tong W-Y. "New microbiological transformations of steroids by streptomyces virginiae IBL-14." *Environmental Science & Technology* **2009**, *43*(15):5967-5974; doi:10.1021/es900585w.

Wang J. "Unopened, Unused Prescription Drugs Destroyed at Taxpayer Expense." University of Houston - Law Center, Houston, TX, November, 2000, 1 pp; http://www.law.uh.edu/healthlaw/perspectives/Food/001129Unopened.html.

Wang JK and Farrell J. "Electrochemical inactivation of triclosan with boron doped diamond film electrodes." *Environmental Science & Technology* **2004**, *38*(19):5232-5237; doi:10.1021/es035277o.

Wang J-Z, Guan Y-F, Ni H-G, Liu G-J, and Zeng EY. "Fecal steroids in riverine runoff of the Pearl River Delta, South China: Levels, potential sources and inputs to the coastal ocean." *Journal of Environmental Monitoring* **2009**, *In press*; doi:10.1039/b909049p.

Wang L, Albasi C, Faucet-Marquis V, Pfohl-Leszkowicz A, Dorandeu C, Marion B*, et al.* "Cyclophosphamide removal from water by nanofiltration and reverse osmosis membrane." *Water Research* **2009**, *43*(17):4115-4122; doi:10.1016/j.watres.2009.06.007.

Wang L, Cai Y-Q, He B, Yuan C-G, Shen D-Z, Shao J*, et al.* "Determination of estrogens in water by HPLC-UV using cloud point extraction." *Talanta* **2006**, *70*(1):47-51; doi:10.1016/j.talanta.2006.01.013.

Wang LZ, Zhang FF, Liu RH, Zhang TY, Xue XY, Xu Q*, et al.* "$FeCl_3/NaNO_2$: An efficient photocatalyst for the degradation of aquatic steroid estrogens under natural light irradiation." *Environmental Science & Technology* **2007**, *41*(10):3747-3751; doi:10.1021/es0625778.

Wang N, Noemie N, Hien N-N, Huynh T-T, Silvestre F, Phuong N-T*, et al.* "Adverse effects of enrofloxacin when associated with environmental stress in Tra catfish (Pangasianodon hypophthalmus)." *Chemosphere* **2009**, *In Press*; doi:10.1016/j.chemosphere.2009.09.038.

Wang P, Qi M, and Jin X. "Determination of roxithromycin in rat lung tissue by liquid chromatography-mass spectrometry." *Journal of Pharmaceutical and Biomedical Analysis* **2005**, *39*(3-4):618-623; doi:10.1016/j.jpba.2005.04.006.

Wang P-L. "Determination of pharmaceutical resides in waters by solid phase extraction with liquid chromatography-tandem mass spectrometry." Masters Dissertation, 2004. 106 pp; http://thesis.lib.ncu.edu.tw/ETD-db/ETD-search/view_etd?URN=92223038.

Wang Q and Yates SR. "Laboratory Study of Oxytetracycline Degradation Kinetics in Animal Manure and Soil." *Journal of Agricultural and Food Chemistry* **2008**, *56*(5):1683-1688; doi:10.1021/jf072927p.

Wang QH, Zhang L, Tian S, Sun PT-C, and Xie W. "A pilot-study on treatment of a waste gas containing butyl acetate, n-butyl alcohol and phenylacetic acid from pharmaceutical factory by bio-trickling filter." *Biochemical Engineering Journal* **2007**, *37*(1):42-48; doi:10.1016/j.bej.2007.03.005.

Wang QQ, Bradford SA, Zheng W, and Yates SR. "Sulfadimethoxine degradation kinetics in manure as affected by initial concentration, moisture, and temperature." *Journal of Environmental Quality* **2005**, *35*(6):2162-2169; doi:10.2134/jeq2006.0178.

Wang QQ, Guo MX, and Yates SR. "Degradation kinetics of manure-derived sulfadimethoxine in amended soil." *Journal of Agricultural and Food Chemistry* **2006**, *54*(1):157-163.

Wang QQ, Scherer EM, and Lemley AT. "Metribuzin degradation by membrane anodic Fenton treatment and its interaction with ferric ion." *Environmental Science & Technology* **2004**, *38*(4):1221-1227; doi:10.1021/es0345827.

Wang R, Moody RP, Koniecki D, and Zhu J. "Low molecular weight cyclic volatile methylsiloxanes in cosmetic products sold in Canada: Implication for dermal exposure." *Environment International* **2009**, *35*(6):900-904; doi:10.1016/j.envint.2009.03.009.

Wang R-L, Bencic D, Biales A, Lattier D, Kostich M, Villeneuve D*, et al.* "DNA microarray-based ecotoxicological biomarker discovery in a small fish model species." *Environmental Toxicology and Chemistry* **2008**, *27*(3):664-675; doi:10.1897/07-192.

Wang R-L, Biales A, Bencic D, Lattier D, Kostich M, Villeneuve D*, et al.* "DNA Microarray application in aquatic ecotoxicology: experimental design, microarray scanning, and factors impacting transcriptional profiles in a small fish species." *Environmental Toxicology and Chemistry* **2008**, *27*(3):652-663; doi:10.1897/07-191.1.

Wang RY and Girard DD. "Over-the-Counter Medications: Toxic Effects and Adverse Reactions: Part I." Year Unknown, http://www.headlice.org/news/2001/otc-toxic.htm.

Wang S. "Microbial Impacts of Selected Pharmaceutically Active Compounds Found in Domestic Wastewater Treatment Plants." Doctoral Dissertation, Department of Civil and Environmental Engineering, Durham, NC, 2009. 173 pp; http://dukespace.lib.duke.edu/dspace/bitstream/10161/1235/1/D_Wang_Shuyi_a_200904.pdf.

Wang S, Holzem R, and Gunsch CK. "Supporting Information for: Effects of pharmaceutically active compounds on activated sludge microorganisms." Duke University, Durham, NC, 2008, 5 pp.

Wang S, Holzem RM, and Gunsch CK. "Effects of Pharmaceutically Active Compounds on a Mixed Microbial Community Originating from a Municipal Wastewater Treatment Plant." *Environmental Science & Technology* **2008**, *42*(4):1091-1095.

Wang S, Huang W, Fang GZ, Zhang Y, and Qiao H. "Analysis of steroidal estrogen residues in food and environmental samples." *International Journal of Environmental Analytical Chemistry* **2008**, *88*(1):1-25.

Wang S, Wang Y, Huang W, Fang GZ, Duan ZJ, Qiao H*, et al.* "Development of a solid-phase extraction-enzyme-linked immunosorbent assay method with a new sorbent of multiwall carbon nanotube for the determination of estrone in water." *Analytical Letters* **2007**, *40*(12):2338-2350; doi:10.1080/00032710701577559.

Wang S, Xu Z, Fang G, Zhang Y, Liu B, and Zhu H. "Development of a Biomimetic Enzyme-Linked Immunosorbent Assay Method for the Determination of Estrone in Environmental Water using Novel Molecularly Imprinted Films of Controlled Thickness as Artificial Antibodies." *Journal of Agricultural and Food Chemistry* **2009**, *57*(11):4528-4534; doi:10.1021/jf900505k.

Wang SH, Lin SL, Du LY, and Zhuang HS. "Flow injection chemiluminescence immunoassay for 17β-estradiol using an immunoaffinity column." *Analytical and Bioanalytical Chemistry* **2006**, *384*(5):1186-1190; doi:10.1007/s00216-005-0268-2.

Wang SH, Zhuang HS, Du LY, Lin SL, and Wang CT. "Determination of estradiol by biotin-avidin-amplified electrochemical enzyme immunoassay." *Analytical Letters* **2007**, *40*(5):887-896; doi:10.1080/00032710701242089.

Wang W, Lin H, Xue C, and Khalid J. "Elimination of chloramphenicol, sulphamethoxazole and oxytetracycline in shrimp, Penaeus chinensis following medicated-feed treatment." *Environment International* **2004**, *30*(3):367-373; doi:10.1016/j.envint.2003.08.006.

Wang W-X and Fisher NS. "Effects of calcium and metabolic inhibitors on trace element uptake in two marine bivalves." *Journal of Experimental Marine Biology and Ecology* **1999**, *236*(1):149-164; doi:10.1016/S0022-0981(98)00195-6.

Wang Y, Li X, Li A, Wang T, Zhang Q, Wang P*, et al.* "Effect of Municipal Sewage Treatment Plant Effluent on Bioaccumulation of Polychlorinated Biphenyls and Polybrominated Diphenyl Ethers in the Recipient Water." *Environmental Science & Technology* **2007**, *41*(17):6026-6032.

Wang Y-C and Ding W-H. "Determination of synthetic polycyclic musks in water by microwave-assisted headspace solid-phase microextraction and gas chromatography-mass spectrometry." *Journal of Chromatography A* **2009**, *1216*(40):6858-6863; doi:10.1016/j.chroma.2009.08.028.

Wang Y-J, Jia D-A, Sun R-J, Zhu H-W, and Zhou D-M. "Adsorption and Cosorption of Tetracycline and Copper(II) on Montmorillonite as Affected by Solution pH." *Environmental Science & Technology* **2008**, *42*(9):3254-3259; doi:10.1021/es702641.

Wang YQ, Hu W, Cao ZH, Fu XQ, and Zhu T. "Occurrence of endocrine-disrupting compounds in reclaimed water from Tianjin, China." *Analytical and Bioanalytical Chemistry* **2005**, *383*(5):857-863; doi:10.1007/s00216-005-0082-x.

Wang Z-h, Zhang S-x, Shen J-z, and Sergei AE. "[Development of fluorescence polarization immunoassay for determination of pesticides and veterinary drugs]." *Spectroscopy Spectral Analysis* **2007**, *27*(11):2299-2306.

Ward AJW, Duff AJ, and Currie S. "The effects of the endocrine disrupter 4-nonylphenol on the behaviour of juvenile rainbow trout (Oncorhynchus mykiss)." *Canadian Journal of Fisheries and Aquatic Sciences* **2006**, *63*:377-382; doi:10.1139/F05-223.

Ward AJW, Duff AJ, Horsfall JS, and Currie S. "Scents and scents-ability: pollution disrupts chemical social recognition and shoaling

in fish." *Proceedings of the Royal Society of London Series B: Biological Sciences* **2008**, *275*(1630):101-105; doi:10.1098/rspb.2007.1283.

Waring CP and Moore AP. "Sublethal effects of a carbamate pesticide on pheromonal mediated endocrine function in mature male Atlantic salmon (Salmo salar L.) parr." *Fish Physiology and Biochemistry* **1997**, *17*(1-6):203-211; doi:10.1023/A:1007747316943.

Waring RH and Harris RM. "Endocrine disrupters: A human risk?" *Molecular and Cellular Endocrinology* **2005**, *244*(1-2):2-9; doi:10.1016/j.mce.2005.02.007.

Warner KE and Jenkins JJ. "Effects of 17α-ethinylestradiol and bisphenol A on vertebral development in the fathead minnow (pimephales promelas)." *Environmental Toxicology and Chemistry* **2007**, *26*(4):732-737; doi:10.1897/06-482R.1.

Warner S. "Diagnostics + Therapy = Theranostics." *The Scientist* **2004**, *18*(16):38.

Washam C. "Baby ills from beauty aids?" *Environmental Health Perspectives* **2001**, *109*(5):A202.

Washington Citizens for Resource Conservation (WCRC). "Sound stats report." Northwest Research Group, Inc., January, 2006, 21 pp.

Washington State Department of Ecology "Clark County solid waste pharmaceutical take back program." 2003, http://www.ecy.wa.gov/programs/swfa/mrw/pdf/Presentations/Jim%20Mansfield%20Pharmaceutical%20take%20back%20program.ppt.pdf.

Wasserfallen J-B, Bourgeois R, Bula C, Yersin B, and Buclin T. "Composition and Cost of Drugs Stored at Home by Elderly Patients." *Annals of Pharmacotherapy* **2003**, *37*(5):731-737; doi:10.1345/aph.1C310.

Watanabe H and Iguchi T. "Using ecotoxicogenomics to evaluate the impact of chemicals on aquatic organisms." *Marine Biology* **2006**, *149*(1):107-115; doi:10.1007/s00227-005-0211-2.

Watanabe KH, Li Z, Kroll KJ, Villeneuve DL, Garcia-Reyero N, Orlando EF*, et al.* "A Computational Model of the Hypothalamic-Pituitary-Gonadal Axis in Male Fathead Minnows Exposed to 17α-Ethinylestradiol and 17β-estradiol." *Toxicological Sciences* **2009**, *109*(2):180-192; doi:10.1093/toxsci/kfp069.

Water Encyclopedia "Chemicals from pharmaceuticals and personal care products." Web Page maintained by Advameg Inc. 2009, http://www.waterencyclopedia.com/Ce-Cr/Chemicals-from-Pharmaceuticals-and-Personal-Care-Products.html.

Water Environment Research Foundation (WERF). "Trace Organic Compounds: Mapping a Collaborative Research Roadmap." in San Francisco, CA, 17-18 May, 2007, 20 pp; http://www.werf.org/AM/Template.cfm?Section=Home&TEMPLATE=/CM/ContentDisplay.cfm&CONTENTID=4369.

Water Environment Research Foundation (WERF) and Anderson P. "Technical Brief on Trace Organic Compounds and Implications for Wastewater Treatment." WatReuse Foundation, WERF CEC3R07, 2008.

Water ST. "Monitoring pharmaceuticals and personal health care products in sewage treatment works." 2002.

WateReuse Foundation "National Database of Water Reuse Facilities (NDWRF)." 2007; http://nwrdb.watereuse.org/Security/SignIn.aspx?message=Invalid+login+information.+Please+enter+a+valid+user+name+and+password.&mode=yes.

WateReuse Foundation (WRF). "Tools to Assess and Understand the Relative Risks of Indirect Potable Reuse and Aquifer Storage and Recovery Projects – Task 2." WRF-06-018, September, 2008 Completion, http://www.watereuse.org/Foundation/Currentprojecstlist9-5-2007.swf.

WateReuse Foundation (WRF) and Drewes J. "Development of Indicators and Surrogates for Chemical Contaminant Removal during Wastewater Treatment and Reclamation." WRF-03-014, 2008, http://www.watereuse.org/Foundation/Currentprojecstlist9-5-2007.swf.

WateReuse Foundation (WRF) and Drewes J. "Contributions of Household Chemicals to Sewage and their Relevance to Municipal Wastewater Systems and the Environment." WRF-04-18
WERF Project 03-CTS-21UR, 2008, http://www.watereuse.org/Foundation/Currentprojecstlist9-5-2007.swf.

WateReuse Foundation (WRF) and Drewes J. "Development of Indicators and Surrogates for Chemical Contaminant Removal during Wastewater Treatment and Reclamation Phase II." WRF-05-004, 2009 Completion,

http://www.watereuse.org/Foundation/Currentprojecstlist9-5-2007.swf.

Waters R. "Prescription Strength Water." *Alternative Medicine* **2003**, *July/August*:89-91.

Waterston K, Wang JWJ, Bejan D, and Bunce NJ. "Electrochemical waste water treatment: Electrooxidation of acetaminophen." *Journal of Applied Electrochemistry* **2006**, *36*(2):227-232.

Watkins KJ. "Handle with care - Contract pharmaceutical manufacturers find a niche in handling high-potency active ingredients." *Chemical & Engineering News* **2001**, *79*(14):31-34.

Watkinson AJ, Micalizzi GB, Graham GM, Bates JB, and Costanzo SD. "Antibiotic-resistant Escherichia coli in wastewaters, surface waters, and oysters from an urban riverine system." *Applied and Environmental Microbiology* **2007**, *73*(17):5667-5670; doi:10.1128/AEM.00763-07.

Watkinson AJ, Murby EJ, and Costanzo SD. "Removal of antibiotics in conventional and advanced wastewater treatment: Implications for environmental discharge and wastewater recycling." *Water Research* **2007**, *41*(18):4164-4176; doi:10.1016/j.watres.2007.04.005.

Watkinson AJ, Murby EJ, Kolpin DW, and Costanzo SD. "The occurrence of antibiotics in an urban watershed: From wastewater to drinking water." *Science of the Total Environment* **2009**, *407*(8):2711-2723; doi:10.1016/j.scitotenv.2008.11.059.

Watson CS, Bulayeva NN, Wozniak AL, and Alyea RA. "Xenoestrogens are potent activators of nongenomic estrogenic responses." *Steroids* **2007**, *72*(2):124-134; doi:10.1016/j.steroids.2006.11.002.

Watson DH, Ed., "Pesticide, Veterinary and Other Residues in Food." CRC Press, 2004; http://www.amazon.com/gp/reader/0849325587/ref=sib_dp_pop_toc?ie=UTF8&p=S009#reader-link.

Wattoo MHS, Kazi TG, Jakhrani MA, and Anwar F. "Evaluation of mineral bottled water samples for different physical and chemical parameters." *Journal of the Chemical Society of Pakistan* **2002**, *24*:39-42.

Watts C, Maycock D, Crane M, Fawell J, and Goslan E. "Desk Based Review of Current Knowledge on Pharmaceuticals in Drinking Water and Estimation of Potential Levels, Final Report to Drinking Water Inspectorate." Watts and Crane Associates, United Kingdom, 5 November, 2007, 107 pp; http://www.dwi.gov.uk/research/reports/DWI70-2-213.pdf.

Watts CD, Craythrone M, Fielding M, and Steel CP. "Identification of non volatile organics in water using field desorption mass spectrometry and high performance liquid chromatography." in *Analysis of organic micropollutants in water*, Angeletti G, Ed., Dordrecht: Reidel; 1983, pp 120-131.

Watts MM, Pascoe D, and Carroll K. "Survival and precopulatory behaviour of Gammarus pulex (L.) exposed to two xenoestrogens." *Water Research* **2001**, *35*(10):2347-2352; doi:10.1016/S0043-1354(00)00537-6.

Waumans D, Pauwels S, Bruneel N, and Tytgat J. "Quantification of cocaine and benzoylecgonine in wastewater by gas chromatography-mass spectrometry: mapping cocaine abuse in the Belgian university city of Leuven." 2009, 2 pp; http://www.tiaft2006.org/proceedings/pdf/DA-p-17.pdf.

Wayne L. 2009, "Fight Grows Over Labels on Household Cleaners." The New York Times, http://www.nytimes.com/2009/09/17/business/energy-environment/17green.html?hpw.

WCRC "Medicine waste reduction - Waste prevention strategies." Web Page maintained by Washington Citizens for Resource Conservation 2009, http://www.medicinereturn.com/waste-reduction.

Webb M, Riley LW, and Roberts RB. "Cost of hospitalization for and risk factors associated with vancomycin-resistant Enterococcus faecium infection and colonization." *Clinical Infectious Diseases* **2001**, *33*(4):445-452.

Webb S, Ternes T, Gibert M, and Olejniczak K. "Indirect human exposure to pharmaceuticals via drinking water." *Toxicology Letters* **2003**, *142*(3):157-167; doi:10.1016/S0378-4274(03)00071-7.

Webb S, Ternes T, Gibert M, and Olejniczak K. "Indirect Human Exposure to Pharmaceuticals via Drinking Water." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp 79-96; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Webb SF. "A data based perspective on the environmental risk assessment of human pharmaceuticals II - Aquatic risk characterisation." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 1st ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2001, Chapter 16, pp 203-219.

Webb SF. "A data-based perspective on the environmental risk assessment of human pharmaceuticals I—Collation of available ecotoxicity data." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 1st ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2001, Chapter 17, pp 175–201.

Webb SF. "A data-based perspective on the environmental risk assessment of human pharmaceuticals I - Collation of available ecotoxicity data." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 24, pp 317-344.

Webb SF. "A data based perspective on the environmental risk assessment of human pharmaceuticals II - Aquatic risk characterisation." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 25, pp 345-364.

Webb SF. "A data based perspective on the environmental risk assessment of human pharmaceuticals III - Indirect human exposure." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 26, pp 363-372.

Webber K and Spindler P. "Environmental assessment of human pharmaceuticals in the United States of America." *Drug Information Journal* **2007**, *41*(2):155-157.

Webber MA, Randall LP, Cooles S, Woodward M, and Piddock LJV. "Triclosan resistance in Salmonella enterica serovar Typhimurium." *Journal of Antimicrobial Chemotherapy* **2008**, *62*(1):83-91.

Weber DJ and Rutala WA. "Use of germicides in the home and the healthcare setting: is there a relationship between germicide use and antibiotic resistance?" *Infection Control and Hospital Epidemiology* **2006**, *27*(10):1107-1119; doi:10.1086/507964.

Weber LP, Balch GC, Metcalf CD, and Janz DM. "Increased kidney, liver, and testicular cell death after chronic exposure to 17α-ethinylestradiol in medaka (Oryzias latipes)." *Environmental Toxicology and Chemistry* **2004**, *23*(3):792-797; doi:10.1897/02-570.

Weber LP, Balch GC, Metcalfe CD, and Janz DM. "Increased kidney, liver, and testicular cell death after chronic exposure to 17α-ethinylestradiol in medaka (oryzias latipes)." *Environmental Toxicology and Chemistry* **2004**, *23*(3):792-797; doi:10.1897/02-570.

Weber LP, Hill RL, and Janz DM. "Developmental estrogenic exposure in zebrafish (Danio rerio): II. Histological evaluation of gametogenesis and organ toxicity." *Aquatic Toxicology* **2003**, *63*(4):431-446; doi:10.1016/S0166-445X(02)00208-4.

Weber S, Gallenkemper M, Melin T, Dott W, and Hollender J. "Efficiency of nanofiltration for the elimination of steroids from water." *Water Science and Technology* **2004**, *50*(5):9-14.

Weber S, Khan S, and Hollender J. "Human risk assessment of organic contaminants in reclaimed wastewater used for irrigation." *Desalination* **2006**, *187*(1-3):53-64; doi:10.1016/j.desal.2005.04.067.

Weber S, Leuschner P, Kampfer P, Dott W, and Hollender J. "Degradation of estradiol and ethinyl estradiol by activated sludge and by a defined mixed culture." *Applied Microbiology and Biotechnology* **2005**, *67*(1):106-112; doi:10.1007/s00253-004-1693-4.

Webster J. "Culture's influence: towards understanding stakeholder interactions in rural water, sanitation and hygiene promotion projects." Doctoral Dissertation, Cranfield University, Institute of Water and Environment, Silsoe, England, 2007. 340 pp; https://dspace.lib.cranfield.ac.uk/handle/1826/1369.

Webster P. "Playing Chicken With Antibiotic Resistance: The FDA bans injecting chicken eggs with antibiotics as a human health threat but backs down when industry groups — known collectively as 'Big Chicken' — squawk." *Miller-McCune* **2009**, *2*(5).

WEF. "Microconstituents Glossary." Water Environment Federation, Microconstituents Community of Practice of the Technical Practice, Ed., June, 2007, 10 pp; http://www.wef.org/NR/rdonlyres/C158248D-DB5A-4ECA-9522-6E2188FAA1B9/0/TPUMicroconstituentsGlossary.pdf.

WEF. "Resource Paper for Public and Press Microconstituents in the Water Environment." Water Environment Federation, 28 June, 2007, 6 pp; http://www.wef.org/NR/rdonlyres/FBA028F2-B48D-44DD-8215-BE3462E4C842/0/TPUResourcePaperPublicPressMicroconstituentsRev13Mar.pdf.

WEF. "Effects of Wastewater Treatment on Microconstituents." Water Environment Federation, Order No: P07014E, 2007, 17 pp; http://www.wef.org/ScienceTechnologyResources/AccessWaterKnowledge/Microconstituents/MicroconstituentsTPUs.htm, http://www.mi-wea.org/docs/EffectsOfWWTrmtOnMicroconsituents.pdf.

WEF. "Source Control of Microconstituents." Water Environment Federation, Order No: P07020E, September, 2007, 26 pp; http://www.wef.org/ScienceTechnologyResources/AccessWaterKnowledge/Microconstituents/MicroconstituentsTPUs.htm, http://www.mi-wea.org/docs/SourceControlofMicroconstituents.pdf.

WEF. "Current Regulatory Framework for Microconstituents in Water." Water Environment Federation, Order No: P07019E, 2007, 42 pp; http://www.wef.org/ScienceTechnologyResources/AccessWaterKnowledge/Microconstituents/MicroconstituentsTPUs.htm, http://ijc.org:8080/glro/glro-web/priorities/2007-09/5th-one/ec/wef.

WEF. "Microconstituents in Biosolids." Water Environment Federation, 2007, 52 pp; http://www.wef.org/ScienceTechnologyResources/AccessWaterKnowledge/Microconstituents/MicroconstituentsTPUs.htm.

WEF. "Questions and Answers on Land Application of Biosolids." Federation WE, Ed., 2008, http://www.biosolids.org/docs/WEF%20QA%20Factsheet%20on%20Biosolids%20Land%20Application_final.pdf.

WEF. "Q & A on Pharmaceuticals in Water." Water Environment Federation, 11 April, 2008, 1-4 pp; http://www.wef.org/ScienceTechnologyResources/AccessWaterKnowledge/Microconstituents/MicroconstituentsTPUs.htm, http://www.werf.org/AM/Template.cfm?Section=Home&TEMPLATE=/CM/ContentDisplay.cfm&CONTENTID=7239.

WEF. "Drug-Free Drains (Brochure): You Can Help Protect Our Waters from Pharmaceuticals and Personal Care Products." Water Environment Federation, Order No: HP1904, 2008, http://www.wef.org/ScienceTechnologyResources/AccessWaterKnowledge/Microconstituents/MicroconstituentsTPUs.htm, http://www.e-wef.org/timssnet/products/tnt_products.cfm?primary_id=HP1904&Action=LONG&subsystem=ORD.

WEF "Microconstituents Community of Practice." Web Page maintained by Water Environment Federation 2009, http://www.wef.org/MembershipCareers/MembershipInformation/CommitteeList/MicroconstituentsCOP.htm.

Wehrhan A, Kasteel R, Simunek J, Groeneweg J, and Vereecken H. "Transport of sulfadiazine in soil columns - Experiments and modelling approaches." *Journal of Contaminant Hydrology* **2007**, *89*(1-2):107-135.

Wei D, Lin Z, Kameya T, Urano K, and Du Y. "Application of biological safety index in two Japanese watersheds using a bioassay battery." *Chemosphere* **2008**, *72*(9):1303-1308; doi:10.1016/j.chemosphere.2008.04.062.

Wei H-B, Lin J-M, Wu D-N, Zhao L-X, Li Z-J, and Ying X-T. "Detection of 17β-estradiol in River Water and Human Urine by Highly Sensitive Chemiluminescence Enzyme Immunoassay." *Chinese Journal of Analytical Chemistry* **2007**, *35*(3):319-324; doi:10.1016/S1872-2040(07)60037-1.

Wei X, Wang Z, Fan F, Wang J, and Wang S. "Advanced treatment of a complex pharmaceutical wastewater by nanofiltration: Membrane foulant identification and cleaning." *Desalination* **2009**, *In press*.

Weichgrebe D, Danilova E, Rosenwinkel KH, Vedenjapin AA, and Baturova M. "Electrochemical oxidation of drug residues in water by the example of tetracycline, gentamicine and aspirin (R)." *Water Science and Technology* **2004**, *49*(4):201-206.

Weigel S. "Occurrence, distribution and fate of pharmaceuticals and further polar contaminants in the marine environment." Doctoral Dissertation, University of Hamburg, Institute of Organic Chemistry, Hamburg, Germany, 2003. 145 pp; http://www.chemie.uni-hamburg.de/oc/hfuss/.

Weigel S, Berger U, Jensen E, Kallenborn R, Thoresen H, and Huhnerfuss H. "Determination of selected pharmaceuticals and caffeine in sewage and seawater from Tromso/Norway with emphasis on ibuprofen and its metabolites." *Chemosphere* **2004**, *56*(6):583-592; doi:10.1016/j.chemosphere.2004.04.015.

Weigel S, Bester K, and Hühnerfuss H. "New method for rapid solid-phase extraction of large-volume water samples and its application to non-target screening of North Sea water for organic contaminants by gas chromatography-mass spectrometry." *Journal of Chromatography A* **2001**, *912*(1):151-161; doi:10.1016/S0021-9673(01)00529-5.

Weigel S, Kallenborn R, and Huhnerfuss H. "Simultaneous solid-phase extraction of acidic, neutral and basic pharmaceuticals from aqueous samples at ambient (neutral) pH and their determination by gas chromatography-mass spectrometry." *Journal of Chromatography A* **2004**, *1023*(2):183-195; doi:10.1016/j.chroma.2003.10.036.

Weigel S, Kuhlmann J, and Huhnerfuss H. "Drugs and personal care products as ubiquitous pollutants: occurrence and distribution of clofibric acid, caffeine and DEET in the North Sea." *Science of the Total Environment* **2002**, *295*(1-3):131-141; doi:10.1016/S0048-9697(02)00064-5.

Weil H and Knepper TP. "Pharmaceuticals in the River Rhine." *The Handbook of Environmental Chemistry* **2006**, *5, Part I*:177-184; doi:10.1007/b11739.

Weil J. "'A review of pharmaceuticals and personal care products in the environment,' from a Washington State University student project 'Life down the Drain: The WSU Student Perspective'." 2003, 4 pp; http://www.campusecology.wsu.edu/page_055.htm.

Weinberg HS, Meyer MT, Singer PC, and Sobsey MD. "Impact of Residual Pharmaceutical Agents and their Metabolites in Wastewater Effluents on Downstream Drinking Water Treatment Facilities." USEPA, EPA Grant Number: R829014, University of North Carolina at Chapel Hill , U.S. Geological Survey, 2001-2006. http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/1066/report/0.

Weinberg HS, Pereira VJ, and Ye Z. "Drugs in Drinking Water: Treatment Options." in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press; Boca Raton, FL, 2007, Chapter 10, pp 217-228; http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Treatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#PPR8,M1.

Weinger MB. "Drug wastage contributes significantly to the cost of routine anesthesia care." *Journal of Clinical Anesthesia* **2001**, *13*(7):491-497; doi:10.1016/S0952-8180(01)00317-8.

Weinhold B. "Preventing Pill Pollution: Keeping Drugs and Toiletries out of the Environment." *Environmental Health Perspectives* **2003**, *111*(5):A293.

Weinmann W, Renz M, Vogt S, and Pollak S. "Automated solid-phase extraction and two-step derivatisation for simultaneous analysis of basic illicit drugs in serum by GC/MS." *International Journal of Legal Medicine* **2000**, *113*(4):229-235; doi:10.1007/s004149900098.

Weintraub A, "Teaching Doctors—or Selling to Them?" *Business Week*, 31 July, 2008, 2 pp; http://businessweek.com/magazine/content/08_32/b4095026335160.htm?chan=top+news_top+news+index_technology.

Weintraub A, "Just say no to drug reps." *Business Week*, The McGraw-Hill Companies, 24 January, 2008.

Weintraub A, "Building up docs' marketing resistance." *BuisnessWeek*, The McGraw-Hill Companies, 18 January, 2008.

Weir K. "Testing the waters." *Weekly Reader Current Science* **2003**, *88*(12):10-11.

Weis P and Ashley JTF. "Contaminants in fish of the Hackensack meadowlands, New Jersey: Size, sex, and seasonal relationships as related to health risks." *Archives of Environmental Contamination and Toxicology* **2007**, *52*(1):80-89; doi:10.1007/s00244-006-0093-4.

Weisbrod AV, Burkhard LP, Arnot J, Mekenyan O, Howard PH, Russom C*, et al.* "Workgroup report: review of fish bioaccumulation databases used to identify persistent, bioaccumulative, toxic substances." *Environmental Health Perspectives* **2007**, *115*(2):255-261; doi:10.1289/ehp.9424.

Weisbrod AV, Sahi J, Segner H, James MO, Nichols J, Schultz I*, et al.* "The state of in vitro science for use in bioaccumulation assessments for fish." *Environmental Toxicology and Chemistry* **2009**, *28*(1):86-96; doi:10.1897/08-015.1.

Weisbrod CJ, Kunz PY, Zenker AK, and Fent K. "Effects of the UV filter benzophenone-2 on reproduction in fish." *Toxicology and Applied Pharmacology* **2007**, *225*(3):255-266; doi:10.1016/j.taap.2007.08.004.

Weiss B. "Vulnerability of children and the developing brain to neurotoxic hazards." *Environmental Health Perspectives* **2000**, *108 Suppl 3*:375-381.

Weiss B and Landrigan PJ. "The developing brain and the environment: an introduction." *Environmental Health Perspectives* **2000**, *108 Suppl 3*:373-374.

Weiss J, Dormann S-MG, Martin-Facklam M, Kerpen CJ, Ketabi-Kiyanvash N, and Haefeli WE. "Inhibition of P-glycoprotein by newer antidepressants." *Journal of Pharmacology and Experimental Therapeutics* **2003**, *305*(1):197-204;

doi:10.1124/jpet.102.046532.

Weiss JM, Hamers T, Thomas KV, van der Linden S, Leonards PEG, and Lamoree MH. "Masking effect of anti-androgens on androgenic activity in European river sediment unveiled by effect-directed analysis." *Analytical and Bioanalytical Chemistry* **2009**, *394*(5):1385-1397; doi:10.1007/s00216-009-2807-8.

Weiss K, Schüssler W, and Porzelt M. "Sulfamethazine and flubendazole in seepage water after the sprinkling of manured areas." *Chemosphere* **2008**, *72*(9):1292-1297; doi:10.1016/j.chemosphere.2008.04.053.

Weiss S, Jakobs J, and Reemtsma T. "Discharge of three benzotriazole corrosion inhibitors with municipal wastewater and improvements by membrane bioreactor treatment and ozonation." *Environmental Science & Technology* **2006**, *40*(23):7193-7199; doi:10.1021/es061434i.

Weiss S and Reemtsma T. "Determination of benzotriazole corrosion inhibitors from aqueous environmental samples by liquid chromatography-electrospray ionization-tandem mass spectrometry." *Analytical Chemistry* **2005**, *77*(22):7415-7420; doi:10.1021/ac051203e.

Weiss S and Reemtsma T. "Membrane bioreactors for municipal wastewater treatment - a viable option to reduce the amount of polar pollutants discharged into surface waters?" *Water Research* **2008**, *42*(14):3938-3847; doi:10.1016/j.watres.2008.05.019.

Weissbrodt D, Kovalova L, Ort C, Pazhepurackel V, Moser R, Hollender J*, et al.* "Mass Flows of X-ray Contrast Media and Cytostatics in Hospital Wastewater." *Environmental Science & Technology* **2009**, *43*(13):4810-4817; doi:10.1021/es8036725.

Welch CJ, Biba M, Drahus A, Conlon DA, Tung HH, and Collins P. "Selective removal of a pharmaceutical process impurity using a reactive resin." *Journal of Liquid Chromatography & Related Technologies* **2003**, *26*:1959-1968.

Welch SL. "Methamphetamine and amphetamine testing." *Forensic Urine Drug Test* **1997**, (March):2-7.

Wellborn Jr. TL. "The Toxicity of Nine Therapeutic and Herbicidal Compounds to Striped Bass." *The Progressive Fish-Culturist* **1969**, *31*(1):27-32; doi:10.1577/1548-8640(1969)31[27:TTONTA]2.0.CO;2.

Wells MJM. "Log D-OW: Key to understanding and regulating wastewater-derived contaminants." *Environmental Chemistry* **2006**, *3*(6):439-449.

Wells MJM, Fono LJ, Pellegrin M-L, and Morse A. "Emerging Pollutants." *Water Environment Research* **2007**, *79*:2192-2209; doi:10.2175/106143007X218719.

Wells MJM, Morse A, Bell KY, Pellegrin M-L, and Fono LJ. "Emerging Pollutants." *Water Environment Research* **2009**, *81*:2211-2254; doi:10.2175/106143009X12445568400854.

Welshons WV, Thayer KA, Judy BM, Taylor JA, Curran EM, and vom Saal FS. "Large effects from small exposures. I. Mechanisms for endocrine-disrupting chemicals with estrogenic activity." *Environmental Health Perspectives* **2003**, *111*(8):994-1006.

Wen H, Bergendahl JA, and Thompson RW. "Removal of Estrone from Water by Adsorption on Zeolites with Regeneration by Direct UV Photolysis." *Environmental Engineering Science* **2009**, *26*(2):319-326; doi:10.1089/ees.2007.0319.

Wen X, Jia Y, and Li J. "Degradation of tetracycline and oxytetracycline by crude lignin peroxidase prepared from Phanerochaete chrysosporium - A white rot fungus." *Chemosphere* **2009**, *75*(8):1003-1007; doi:10.1016/j.chemosphere.2009.01.052.

Wen XJ, Tu CH, and Lee HK. "Two-step liquid-liquid-liquid microextraction of nonsteroidal antiinflammatory drugs in wastewater." *Analytical Chemistry* **2004**, *76*(1):228-232; doi:10.1021/ac0302354.

Wen Y, Wang Y, and Feng Y-Q. "Simultaneous residue monitoring of four tetracycline antibiotics in fish muscle by in-tube solid-phase microextraction coupled with high-performance liquid chromatography." *Talanta* **2006**, *70*(1):153-159; doi:10.1016/j.talanta.2005.11.049.

Wen Y, Zhou B-S, Xu Y, Jin S-W, and Feng Y-Q. "Analysis of estrogens in environmental waters using polymer monolith in-polyether ether ketone tube solid-phase microextraction combined with high-performance liquid chromatography." *Journal of Chromatography A* **2006**, *1133*(1-2):21-28; doi:10.1016/j.chroma.2006.08.049.

Wennmalm A. "Sustainable Use of Pharmaceuticals." in *A Healthy Future- Pharmaceuticals in a Sustainable Society*, collaborative publication of Apoteket AB, MistraPharma, and Stockholm County Council; Sweden, 2009, Chapter 6, pp 106-123;

http://www.epa.gov/nerlesd1/bios/daughton/Pharmaceuticals-Sustainability-2009.pdf.

Wennmalm A and Gunnarsson B. "Public health care management of water pollution with pharmaceuticals: Environmental classification and analysis of pharmaceutical residues in sewage water." *Drug Information Journal* **2005**, *39*(3):291-297.

Wennmalm Å and Gunnarsson B. "Pharmaceutical management through environmental product labeling in Sweden." *Environment International* **2009**, *35*(5):775-777; doi:10.1016/j.envint.2008.12.008.

Wenzel A, Müller J, and Ternes T. "Study of endocrine disrupters in drinking water." Fraunhofer Institute for Molecular Biology and Applied Ecology, Final Report ENV.D.1/ETU/2000/0083, Schmallenberg, Germany, 26 February, 2003, http://ec.europa.eu/research/endocrine/pdf/drinking_water_en.pdf.

Wenzel A, Nendza M, Hartmann P, and Kanne R. "Test battery for the assessment of aquatic toxicity." *Chemosphere* **1997**, *35*(1-2):307-322; doi:10.1016/S0045-6535(97)00157-4.

Wenzel AC, Schafers C, Vollmer G, Michna H, and Diel P. "Research efforts towards the development and validation of a test method for the identification of endocrine disrupting chemicals." Fraunhofer-Institut fur Umweltchemie und Okotoxikologie Auf dem Aberg 1, Schmallenberg, Germany, September, 2001, 82 pp.

Wenzel H, Larsen HF, Clauson-Kaas J, Hoibye L, and Jacobsen BN. "Weighing environmental advantages and disadvantages of advanced wastewater treatment of micro-pollutants using environmental life cycle assessment." *Water Science and Technology* **2008**, *57*(1):27-32; doi:10.2166/wst.2008.819.

WER. "Literature Review." *Water Environment Research* **2008**, *80*(10):868-2092.

WERF "TOrCs Trace Organics." Web Page maintained by Water Environment Research Foundation 2009, http://www.werf.org/AM/Template.cfm?Section=Trace_Organics.

Werner I and Hinton DE. "Spatial profiles of hsp 70 proteins in Asian clam (Potamocorbula amurensis) in northern San Francisco Bay may be linked to natural rather than anthropogenic stressors." *Marine Environmental Research* **2000**, *50*(1-5):379-384; doi:10.1016/S0141-1136(00)00058-1.

Werner J, Palace VP, Wautier KG, Mills KH, Chalanchuk SM, and Kidd KA. "Reproductive fitness of lake trout (Salvelinus namaycush) exposed to environmentally relevant concentrations of the potent estrogen ethynylestradiol (EE2) in a whole lake exposure experiment." *Scientia Marina* **2006**, *70*(2):59-66.

Werner J, Wautier K, Evans RE, Baron CL, Kidd K, and Palace V. "Waterborne ethynylestradiol induces vitellogenin and alters metallothionein expression in lake trout (Salvelinus namaycush)." *Aquatic Toxicology* **2003**, *62*(4):321-328; doi:10.1016/S0166-445X(02)00104-2.

Werner JJ, Arnold WA, and McNeill K. "Water Hardness as a Photochemical Parameter: Tetracycline Photolysis as a Function of Calcium Concentration, Magnesium Concentration, and pH." *Environmental Science & Technology* **2006**, *40*(23):7236-7241.

Werner JJ, Chintapalli M, Lundeen RA, Wammer KH, Arnold WA, and McNeill K. "Environmental Photochemistry of Tylosin: Efficient, Reversible Photoisomerization to a Less-Active Isomer, Followed by Photolysis." *Journal of Agricultural and Food Chemistry* **2007**, *55*(17):7062-7068; doi:10.1021/jf070101h.

Werner JJ, McNeill K, and Arnold WA. "Environmental photodegradation of mefenamic acid." *Chemosphere* **2005**, *58*(10):1339-1346; doi:10.1016/j.chemosphere.2004.10.004.

Wert EC, Rosario-Ortiz FL, and Snyder SA. "Effect of ozone exposure on the oxidation of trace organic contaminants in wastewater." *Water Research* **2009**, *43*(4):1005-1014; doi:10.1016/j.watres.2008.11.050.

Wert EC, Rosario-Ortiz FL, and Snyder SA. "Using Ultraviolet Absorbance and Color To Assess Pharmaceutical Oxidation during Ozonation of Wastewater." *Environmental Science & Technology* **2009**, *43*(13):4858-4863; doi:10.1021/es803524a.

Wessel N, Rousseau S, Caisey X, Quiniou F, and Akcha F. "Investigating the relationship between embryotoxic and genotoxic effects of benzo[a]pyrene, 17α-ethinylestradiol and endosulfan on Crassostrea gigas embryos." *Aquatic Toxicology* **2007**, *85*(2):133-142; doi:10.1016/j.aquatox.2007.08.007.

West HM and Tracy SR. "The veterinary drug ivermectin influences immune response in the yellow dung fly (Scathophaga stercoraria)." *Environmental Pollution* **2009**, *157*(3):955-958; doi:10.1016/j.envpol.2008.10.017.

Wester PW, van den Brandhof EJ, Vos JH, and van der Ven LTM. "Identification of Endocrine Disruptive Effects in the Aquatic Environment - a Partial Life Cycle Study in Zebrafish [Identificatie van effecten door hormoonverstoring in het aquatische milieu: een partial life cycle studie met zebravissen]." Rijksinstituut voor Volksgezondheid en Milieu RIVM, RIVM report 640920001/2003, 12 December, 2003, 112 pp; http://hdl.handle.net/10029/9047.

Wester RC, Hui X, and Maibach HI. "In Vivo Human Transfer of Topical Bioactive Drug between Individuals: Estradiol." *Journal of Investigative Dermatology* **2006**, *126*(10):2190-2193; doi:10.1038/sj.jid.5700383.

Westerhoff P, Yoon Y, Snyder S, and Wert E. "Fate of Endocrine-Disruptor, Pharmaceutical, and Personal Care Product Chemicals during Simulated Drinking Water Treatment Processes." *Environmental Science & Technology* **2005**, *39*(17):6649-6663.

Westfall JM, McCabe J, and Nicholas RA. "Personal use of drug samples by physicians and office staff." *The Journal of the American Medical Association* **1997**, *278*(2):141-143.

Westgate A. "Evaluation of novel polyethersulfone membranes incorporating charged surface modifying macromolecules for the removal of pharmaceutical and endocrine disrupting compounds from drinking water." Masters Dissertation, University of Ottawa, Ottawa, Ontario, Canada, 2008. 158 pp.

Weston A, Caminada D, Galicia H, and Fent K. "Effects of lipid-lowering pharmaceuticals bezafibrate and clofibric acid on lipid metabolism in fathead minnow (Pimephales promelas)." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2648-2655; doi:10.1897/09-087.1.

Weston Benshoof Rochefort Rubalcava MacCuish LLP. "New United States Geological Survey study examines the unintentional medication of water supplies." *Western Water Law & Policy Reporter* **2002**:190-191.

Westphal Kea. "Induction of P-glycoprotein by rifampin increases intestinal secretion of talinolol in human beings: A new type of drug/drug interaction." *Clinical Pharmacology and Therapeutics* **2000**, *68*(4):345-355; doi:10.1067/mcp.2000.109797.

Wetzstein HG, Schneider J, and Karl W. "Patterns of metabolites produced from the fluoroquinolone enrofloxacin by basidiomycetes indigenous to agricultural sites." *Applied Microbiology and Biotechnology* **2000**, *71*(1):90-100; doi:10.1007/s00253-005-0178-4.

Weyer P and Riley D. "Endocrine disruptors and pharmaceuticals in drinking water." Denver, CO, AWWA Research Foundation, American Water Works Association, 2001, 116 pp; http://www.awwarf.org/research/topicsandprojects/execSum/2598.aspx, http://books.google.com/books?hl=en&lr=&id=llpjSAzsbiMC&oi=fnd&pg=PR7&dq=daughton+sewage&ots=afa3XrinmW&sig=M-Xp-CzogS4E-o1iooViPcWXA0k#v=onepage&q=daughton%20sewage&f=false.

Whelan MJ, Van Egmond R, Guymer I, Lacoursiere JO, Vought LMB, Finnegan C*, et al.* "The behaviour of linear alkyl benzene sulphonate under direct discharge conditions in Vientiane, Lao PDR." *Water Research* **2007**, *41*(20):4730-4740; doi:10.1016/j.watres.2007.06.059.

White EV and Latif DA. "Office-Based Pharmacy Practice: Past, Present, and Future." *Annals of Pharmacotherapy* **2006**, *40*(7):1409-1414; doi:10.1345/aph.1H257.

White JR, Belmont MA, and Metcalfe CD. "Pharmaceutical compounds in wastewater: Wetland treatment as a potential solution." *The Scientific World Journal* **2006**, *6*:1731-1736; doi:10.1100/tsw.2006.287.

White KL, Haggard BE, Matlock MD, and Kim JW. "Periphytic chlorophyll - A response to Triclosan exposure: Application of a passive diffusion." *Applied Engineering in Agriculture* **2005**, *21*(2):307-311.

White LK, Wright WE, and Shay JW. "Telomerase inhibitors." *Trends in Biotechnology* **2001**, *19*(3):114-120; doi:10.1016/S0167-7799(00)01541-9.

White PA and Rasmussen JB. "The genotoxic hazards of domestic wastes in surface waters." *Mutation Research/Reviews in Mutation Research* **1998**, *410*(3):223-236; doi:10.1016/S1383-5742(98)00002-7.

White RH, Cote I, Zeise L, Fox M, Dominici F, Burke TA*, et al.* "State-of-the-Science Workshop Report: Issues and Approaches in Low Dose–Response Extrapolation for Environmental Health Risk Assessment." *Environmental Health Perspectives* **2009**, *117*(2):283-287; doi:10.1289/ehp.11502.

Whitlock K, "Casting prozac upon the waters." *University of Georgia Research Magazine*, 2005, Summer http://researchmagazine.uga.edu/summer2005/prozac01.htm.

WHO. "Guidelines for safe disposal of unwanted pharmaceuticals in and after emergencies." World Health Organization, 1999, 31 pp; http://www.who.int/water_sanitation_health/medicalwaste/pharmaceuticals/en/index.html.

WHO. "Infectious Diseases 2000: Overcoming Antimicrobial Resistance." World Health Organization, 2000, 67 pp; http://www.who.int/infectious-disease-report-2000/.

WHO. "Global assessment of the state-of-the-science of endocrine disruptors: International programme on chemical safety." World Health Organization, Damstra T, Barlow S, Bergman A, Kavlock R and Van Der Kraak G, Eds., 2002, http://www.who.int/ipcs/en/.

WHO. "Good distribution practices (GDP) for pharmaceutical products." World Health Organization, 2005, 28 pp; http://www.who.int/medicines/services/expertcommittees/pharmprep/QAS_068Rev2_GDPdraft.pdf.

WHO "Defined Daily Doses." Web Page maintained by World Health Organization, WHO Collaborating Centre for Drug Statistics Methodology 2006, http://www.whocc.no/atcddd/.

WHO. "WHO core principles for achieving safe and sustainable management of health-care waste." World Health Organization, Department for Public Health and Environment, Assessing and Managing Environmental Risks to Health, WHO/SDE/WSH/07.10, 2007, 2 pp; http://www.who.int/water_sanitation_health/medicalwaste/hcwprinciples.pdf; http://www.who.int/water_sanitation_health/medicalwaste/hcwprinciples/en/index.html.

WHO "World directory of poisons centres (Yellow Tox)." Web Page maintained by International Programme on Chemical Safety (IPCS), World Health Organization 2008, www.who.int/ipcs/poisons/centre/directory/en/.

WHO "About the ATC/DDD system." Web Page maintained by The WHO Collaborating Centre for Drug Statistics Methodology 2008, http://www.whocc.no/atcddd/atcsystem.html.

WHO Collaborating Centre for Drug Statistics Methodology "New ATC codes and DDDs." 2009; http://www.whocc.no/atcddd/new_atc_ddd.html.

WHO Collaborating Centre for Drug Statistics Methodology "Pharmaceutical consumption according to the Anatomic Therapeutic Chemical Classification (ATC)/Defined Daily Dose (DDD) system." 2009; http://www.ecosante.org/OCDEENG/720020.html.

WHO Collaborating Centre for Drug Statistics Methodology "ATC/DDD Index 2009." 2009; http://www.whocc.no/atcddd/.

Wiaderkiewicz R, Czekaj P, Bogus K, Wiaderkiewicz A, Komarska H, Walczuk B*, et al.* "Differentiation potential of liver mesenchymal stem cells (MSC) from rats exposed to EMF and/or triclosan." *Toxicology Letters* **2007**, *172*(Supplement 1):S125-S126; doi:10.1016/j.toxlet.2007.05.331.

Wick A, Fink G, Joss A, Siegrist H, and Ternes T. "Fate of beta blockers and psycho-active drugs in conventional wastewater treatment." *Water Research* **2009**, *43*(4):1060-1074; doi:10.1016/j.watres.2008.11.031.

Wickelgren I. "As the worm ages: epilepsy drugs lengthen nematode life span." *Science* **2005**, *307*(5707):193; doi:10.1126/science.307.5707.193a.

Wicks C, Kelley C, and Peterson E. "Estrogen in a karstic aquifer." *Ground Water* **2004**, *42*(3):384-389; doi:10.1111/j.1745-6584.2004.tb02686.x.

Widdows J, Nasci C, and Fossato VU. "Effects of pollution on the scope for growth of mussels (Mytilus galloprovincialis) from the Venice Lagoon, Italy." *Marine Environmental Research* **1997**, *43*(1-2):69-79; doi:10.1016/0141-1136(96)00003-7.

Wiegant FAC, Souren JEM, and van Wijk R. "Stimulation of survival capacity in heat shocked cells by subsequent exposure to minute amounts of chemical stressors; role of similarity in hsp-inducing effects." *Human & Experimental Toxicology* **1999**, *18*:460-470.

Wiegel S, Aulinger A, Brockmeyer R, Harms H, Loffler J, Reincke H*, et al.* "Pharmaceuticals in the river Elbe and its tributaries." *Chemosphere* **2004**, *57*(2):107-126; doi:10.1016/j.chemosphere.2004.05.017.

Wiergowski M, Szpiech B, Reguła K, and Tyburska A. "Municipal sewage as a source of current information on psychoactive substances used in urban communities." *Problems of Forensic Sciences* **2009**, *79*(79):327-337.

Wiessing L, Vicente J, and Hickman M. "Integrating wastewater analysis with conventional approaches to measuring drug use." in *Assessing illicit drugs in wastewater: Potential and limitations of a new monitoring approach*, European Monitoring Centre for Drugs

and Drug Addiction (EMCDDA); Lisbon, Portugal, 2008, Chapter 6, pp 79-92; http://www.emcdda.europa.eu/attachements.cfm/att_65636_EN_EMCDDA-insights9-wastewater.pdf.

Wiethan J, Al-Ahmad A, Henninger A, and Kümmerer K. "Simulation des Selektionsdrucks der Antibiotika Ciprofloxacin und Ceftazidim in Oberflächengewässern mittels klassischer Methoden [Simulation of the selection pressure of the antibiotics ciprofloxacin and ceftazidim in surface waters by means of classic methods]." *Vom Wasser* **2000**, *95*:107-118.

Wijnhoven SWP, Peijnenburg WJGM, Herberts CA, Hagens WI, Oomen AG, Heugens EHW*, et al.* 2009, "Nano-silver - a review of available data and knowledge gaps in human and environmental risk assessment." Nanotoxicology, 1 - 30 pp; http://www.informaworld.com/10.1080/17435390902725914, www.informaworld.com/index/909930998.pdf.

Wikipedia "Pharmaceuticals and personal care products in the environment." Web Page maintained by Wikipedia, the Free Encyclopedia 2009, http://en.wikipedia.org/wiki/Pharmaceuticals_and_personal_care_products_in_the_environment.

WikiPharma "WikiPharma – A freely available, easily accessible, interactive and comprehensive database for environmental effect data for pharmaceuticals." 2009.

Wilcox JD. "Transport and fate of organic wastewater contaminants beneath unsewered residential subdivisions." Doctoral Dissertation, University of Wisconsin - Madison, 2007. 183 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2232515,FM=9,SEARCH=MD.Generic Search.

Wilcox JD, Bahr JM, Hedman CJ, Hemming JDC, Barman MAE, and Bradbury KR. "Removal of Organic Wastewater Contaminants in Septic Systems Using Advanced Treatment Technologies." *Journal of Environmental Quality* **2009**, *38*(1):149-156; doi:10.2134/jeq2007.0365.

Wilczewski W, "New way to smuggle drugs in Nogales." *Green Valley News and Sun*, 9 April, 2009, 1 pp; http://www.gvnews.com/articles/2009/04/09/breaking_news/00drugs409.txt.

Wiley-Blackwell "Mass Spectra of Androgens, Estrogens, and other Steroids 2008." 2008; http://www.wiley.com/WileyCDA/WileyTitle/productCd-3527321934,miniSiteCd-STMDB2.html.

Wiley-Blackwell "Mass Spectra of Designer Drugs 2008." 2008; http://www.wiley.com/WileyCDA/WileyTitle/productCd-3527323252,miniSiteCd-STMDB2.html.

Wiley-Blackwell "NIST/EPA/NIH Mass Spectral Library 2008." 2008; http://www.wiley.com/WileyCDA/WileyTitle/productCd-0470425172,miniSiteCd-STMDB2.html.

Wilga J, Kot-Wasik A, and Namieśnik J. "Studies of Human and Veterinary Drugs' Fate in Environmental Solid Samples-Analytical Problems." *Journal of Chromatographic Science* **2008**, *46*(7):601-608.

Wilhelmson B. "Ekologiska risker stoppar registrering? (Ecological risks prevent registration?)." *Lakartidningen* **1997**, *94*:1514.

Wilken RD, Ternes TA, and Heberer T. "Pharmaceuticals in Sewage, Surface and Drinking Water in Germany." in *Security of Public Water Supplies*, Deininger RA, Literathy P and Bartram J, Eds., Kluver Academic Publishers; Dodrecht, 2000, NATO Science Series, pp 227-240.

Wilkinson KD. "Unchaining the condemned." *Nature* **2002**, *419*:351-353; doi:10.1038/419351a.

Wilkison DH, Armstrong DJ, and Blevins DW. "Effects of wastewater and combined sewer overflows on water quality in the Blue River basin, Kansas City, Missouri and Kansas, July 1998 -October 2000." Rolla, MO, US Geological Survey, July-October 2002. 55 pp; http://toxics.usgs.gov/regional/emc/missouri_kansas.html.

Wilkison DH, Armstrong DJ, Norman RD, Polton BC, Furlong ET, and Zaugg SD. "Water Quality in the Blue River Basin, Kansas City Metropolitan Area, Missouri and Kansas, July 1998 to October 2004." USGS, July, 2006, http://pubs.usgs.gov/fs/2006/3103/pdf/FS2006-3103.pdf.

Wilkosz MF and Bogner RH. "Transdermal Drug Delivery-Part 1: Current Status." *US Pharmacist* **2003**, *26*(4):40-55.

Wilkosz MF and Bogner RH. "Transdermal Drug Delivery-Part 2: Upcoming Developments." *US Pharmacist* **2003**, *28*(5):65-72.

Williams BL and Florez Y. "Do Mexican Americans perceive environmental issues differently than Caucasians: a study of cross-

ethnic variation in perceptions related to water in Tucson." *Environmental Health Perspectives* **2002**, *110*(S2):303-310.

Williams CF. "Distribution and Fate of the Human Drug Carbamazepine in Treatment Wetlands." *Organic Contaminants in Water, Soil and Sediments: Sources, Interactions and Ecological Impacts* **2008**, *Session No. 66*.

Williams CF, Williams CE, and Adamsen FJ. "Sorption-desorption of carbamazepine from irrigated soils." *Journal of Environmental Quality* **2006**, *35*(5):1779-1783; doi:10.2134/jeq2005.0345.

Williams JP, Patel VJ, Holland R, and Scrivens JH. "The use of recently described ionisation techniques for the rapid analysis of some common drugs and samples of biological origin." *Rapid Communications in Mass Spectrometry* **2006**, *20*(9):1447-1456; doi:10.1002/rcm.2470.

Williams M, Ong PL, Williams DB, and Kookana RS. "Estimating the sorption of pharmaceuticals based on their pharmacological distribution." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2572-2579; doi:10.1897/08-587.1.

Williams M, Saison CLA, Williams DB, and Kookana RS. "Can aquatic distribution of human pharmaceuticals be related to pharmacological data?" *Chemosphere* **2006**, *65*(11):2253-2259; doi:10.1016/j.chemosphere.2006.05.036.

Williams RJ and Heymann DL. "Containment of antibiotic resistance." *Science* **1998**, *279*(5354):1153-1154; doi:10.1126/science.279.5354.1153.

Williams RJ, Johnson AC, Smith JJL, and Kanda R. "Steroid estrogens profiles along river stretches arising from sewage treatment works discharges." *Environmental Science & Technology* **2003**, *37*(9):1744-1750; doi:10.1021/es0202107.

Williams RJ, Jürgens MD, and Johnson AC. "Initial predictions of the concentrations and distribution of 17β-oestradiol, oestrone and ethinyl oestradiol in 3 English rivers." *Water Research* **1999**, *33*(7):1663-1671; doi:10.1016/S0043-1354(98)00386-8.

Williams RJ, Keller VDJ, Johnson AC, Young AR, Holmes MGR, Wells C*, et al.* "A national risk assessment for intersex in fish arising from steroid estrogens." *Environmental Toxicology and Chemistry* **2009**, *28*(1):220-230; doi:10.1897/08-047.1.

Williams RT, Ed., "Human pharmaceuticals: assessing the impacts on aquatic ecosystems." SETAC Press, Pensacola, FL, 2005, 368 pp;
http://books.google.com/books?id=yLBAP3c0nLsC&pg=PA172&lpg=PA172&dq=springer+brooks+huggett+and+pharmaceuticals&source=bl&ots=E9Ts11xEeU&sig=BiQWean7hpTgFmxxQ_1ZDun0R38&hl=en&ei=r9WiSb24MZW6twe-182CDQ&sa=X&oi=book_result&resnum=1&ct=result#PPA1,M1.

Williams RT. "Human health pharmaceuticals in the environment - an introduction." in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Williams RT, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 1, pp 1-46;
http://books.google.com/books?hl=en&lr=&id=yLBAP3c0nLsC&oi=fnd&pg=PA1&dq=daughton+sewage&ots=E9Vr63sFhR&sig=YeKQ15Yui7-uKzkX8YDKcXv-Rug#v=onepage&q=daughton%20sewage&f=false.

Williams RT and Cook JC. "Exposure to pharmaceuticals present in the environment." *Drug Information Journal* **2007**, *41*(2):133-141.

Williams RT, Huggett DB, and Sager NB. "Human drug development and registration, including an example of how environmental safety is evaluated." in *Human pharmaceuticals: assessing the impacts on aquatic ecosystems*, Williams R, Ed., SETAC Press; Pensacola, FL, 2005, Chapter 2, pp 47-70.

Williams TD, Caunter JE, Lillicrap AD, Hutchinson TH, Gillings EG, and Duffell S. "Evaluation of the reproductive effects of tamoxifen citrate in partial and full life-cycle studies using fathead minnows (Pimephales promelas)." *Environmental Toxicology and Chemistry* **2007**, *26*(4):695-707; doi:10.1897/05-646R1.1.

Williams W. "States Look at 'Recycling' Medicine for the Poor." The State Journal, 2008, 8 August http://www.allbusiness.com/health-care/health-care-facilities-nursing/11577091-1.html.

Willis C. "Antibiotics in the food chain: their impact on the consumer." *Reviews in Medical Microbiology* **2000**, *11*(3):153-160.

Willis RC. "Corralling steroid-laced cattle." *Analytical Chemistry* **2009**, *81*(3):860-860; doi:10.1021/ac802633c.

Wilson B, Chen RF, Cantwell M, Gontz A, Zhu J, and Olsen CR. "The partitioning of Triclosan between aqueous and particulate bound phases in the Hudson River Estuary." *Marine Pollution Bulletin* **2009**, *59*(4-7):207-212; doi:10.1016/j.marpolbul.2009.03.026.

Wilson B, Zhu J, Cantwell M, and Olsen CR. "Short-term dynamics and retention of Triclosan in the lower Hudson River Estuary." *Marine Pollution Bulletin* **2008**, *56*(6):1230-1233; doi:10.1016/j.marpolbul.2008.03.017.

Wilson BA. "The fate and effects of triclosan in the lower Hudson River estuary." Doctoral Dissertation, The University of Massachusetts Boston, Boston, MA, 2009. 278 pp.

Wilson BA, Smith VH, deNoyelles F, and Larive CK. "Effects of Three Pharmaceutical and Personal Care Products on Natural Freshwater Algal Assemblages." *Environmental Science & Technology* **2003**, *37*(9):1713-1719.

Wilson CJ, Brain RA, Sanderson H, Johnson DJ, Bestari KT, Sibley PK, *et al.* "Structural and functional responses of plankton to a mixture of four tetracyclines in aquatic microcosms." *Environmental Science & Technology* **2004**, *38*(23):6430-6439; doi:10.1021/es049766f.

Wilson E. "Pharmaceutical drugs in European drinking water." *Science News* **1998**.

Wilson EK. "Dental anesthetics." *Chemical & Engineering News* **2009**, *87*(26):33.

Wilson L, O'Keefe P, Palmer P, Sheridan R, Briggs R, and King T. "Survey of the New York City Watershed for the Presence of Pharmaceuticals." 2004, https://info.ngwa.org/GWOL/pdf/042379958.pdf.

Wilson SC, Duarte-Davidson R, and Jones KC. "Screening the environmental fate of organic contaminants in sewage sludges applied to agricultural soils: 1. The potential for downward movement to groundwaters." *Science of the Total Environment* **1996**, *185*(1-3):45-57; doi:10.1016/0048-9697(95)05041-8.

Wilson VS, Lambright C, Ostby J, and Gray LE. "In vitro and in vivo effects of 17β-trenbolone: A feedlot effluent contaminant." *Toxicological Sciences* **2002**, *70*(2):202-211.

Winberg S, Nilsson GE, and Olsen KH. "The Effect of Stress and Starvation on Brain Serotonin Utilization in Arctic Charr (Salvelinus Alpinus)." *Journal of Experimental Biology* **1992**, *165*(1):229-239.

Wind T. "Prognosis of environmental concentrations by geo-referenced and generic models: a comparison of GREAT-ER and EUSES exposure simulations for some consumer-product ingredients in the Itter." *Chemosphere* **2004**, *54*(8):1135-1143; doi:10.1016/j.chemosphere.2003.09.037.

Wind T, Werner U, Jacob M, and Hauk A. "Environmental concentrations of boron, LAS, EDTA, NTA and Triclosan simulated with GREAT-ER in the river Itter." *Chemosphere* **2004**, *54*(8):1145-1154; doi:10.1016/j.chemosphere.2003.09.036.

Winder C. "Mechanisms of multiple chemical sensitivity." *Toxicology Letters* **2002**, *128*(1-3):85-97; doi:10.1016/S0378-4274(01)00536-7.

Winder VL. "Fluoxetine in the marine environment: Effects on sheepshead minnow (Cyprinodon variegatus) serotonin activity and locomotor behavior." Masters Dissertation, The College of Charleston, Charleston, SC, 2008. 135 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2305668,FM=9,SEARCH=MD.GenericSearch, http://lowcountrydigital.library.cofc.edu/cdm4/document.php?CISOROOT=/CCT&CISOPTR=2291&REC=20.

Winder VL, Sapozhnikova Y, Pennington PL, and Wirth EF. "Effects of Fluoxetine Exposure on Serotonin-related Activity in the Sheepshead Minnow (Cyprinodon variegatus) using LC/MS/MS Detection and Quantitation." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2009**, *149*(4):559-565; doi:10.1016/j.cbpc.2008.12.008.

Winker M, Faika D, Gulyas H, and Otterpohl R. "A comparison of human pharmaceutical concentrations in raw municipal wastewater and yellowwater." *Science of the Total Environment* **2008**, *399*(1-3):96-104; doi:10.1016/j.scitotenv.2008.03.027.

Winker M, Tettenborn F, Faika D, Gulyas H, and Otterpohl R. "Comparison of analytical and theoretical pharmaceutical concentrations in human urine in Germany." *Water Research* **2008**, *42*(14):3633-3640; doi:10.1016/j.watres.2008.06.002.

Winkler G, Fischer R, Krebs P, Thompson A, and Cartmell E. "Mass flow balances of triclosan in small rural wastewater treatment plants and the impact of biomass parameters on the removal." *Engineering in Life Sciences* **2007**, *7*(1):42-51; doi:10.1002/elsc.200620158.

Winkler M, Headley JV, and Peru KM. "Optimization of solid-phase microextraction for the gas chromatographic-mass spectrometric determination of synthetic musk fragrances in water samples." *Journal of Chromatography A* **2000**, *903*(1-2):203-210; doi:10.1016/S0021-9673(00)00890-6.

Winkler M, Kopf G, Hauptvogel C, and Neu T. "Fate of artificial musk fragrances associated with suspended particulate matter (SPM) from the River Elbe (Germany) in comparison to other organic contaminants." *Chemosphere* **1998**, *37*(6):1139-1156; doi:10.1016/S0045-6535(98)00110-6.

Winkler M, Lawrence JR, and Neu TR. "Selective degradation of ibuprofen and clofibric acid in two model river biofilm systems." *Water Research* **2001**, *35*(13):3197-3205; doi:10.1016/S0043-1354(01)00026-4.

Winter MJ, Lillicrap AD, Caunter JE, Schaffner C, Alder AC, Ramil M*, et al.* "Defining the chronic impacts of atenolol on embryo-larval development and reproduction in the fathead minnow (Pimephales promelas)." *Aquatic Toxicology* **2008**, *86*(3):361-369; doi:10.1016/j.aquatox.2007.11.017.

Winter MJ, Owen SF, Murray-Smith RM, Panter GH, Hetheridge MJ, and Kinter LB. "Using data from drug discovery and development to aid the aquatic Environmental Risk Assessment of human pharmaceuticals: concepts, considerations and challenges." *Integrated Environmental Assessment and Management* **2009**, *In press*; doi:10.1897/IEAM_2009-044.1.

Wintgens T, Gallenkemper M, and Melin T. "Endocrine disrupter removal from wastewater using membrane bioreactor and nanofiltration technology." *Desalination* **2002**, *146*(1-3):387-391; doi:10.1016/S0011-9164(02)00519-2.

Wintgens T, Gallenkemper M, and Melin T. "Occurrence and removal of endocrine disrupters in landfill leachate treatment plants." *Water Science and Technology* **2003**, *48*(3):127-134.

Wintgens T and Melin T. "Removing endocrine-disrupting compounds from wastewater." *Membrane Technology* **2001**, *2001*(138):11-12; doi:10.1016/S0958-2118(01)80333-5.

Wintgens T, Melin T, Schafer A, Khan S, Muston M, Bixio D*, et al.* "The role of membrane processes in municipal wastewater reclamation and reuse." *Desalination* **2005**, *178*(1-3):1-11; doi:10.1016/j.desal.2004.12.014.

Wirzinger G. "Stressorinduzierte ökotoxikologische Effekte und Genexpressionsveränderungen bei Chironomus riparius." Doctoral Dissertation, Johann Wolfgang Goethe-Universität Frankfurt am Main, Frankfurt am Main, Biowissenschaften, 2008. 192 pp; http://deposit.d-nb.de/cgi-bin/dokserv?idn=990890597&dok_var=d1&dok_ext=pdf&filename=990890597.pdf.

Wise AE. "Presence and Fate of the Endocrine Disrupter Octylphenol." Doctoral Dissertation, Cornell University, Ithaca, New York, 2008. 128 pp; http://ecommons.library.cornell.edu/handle/1813/9479 and http://hdl.handle.net/1813/9479.

Wishart DS and Knox C "DrugBank: a knowledgebase for drugs, drug actions and drug targets." 2008; http://www.drugbank.ca/.

Wishart DS, Knox C, Guo AC, Cheng D, Shrivastava S, Tzur D*, et al.* "DrugBank: a knowledgebase for drugs, drug actions and drug targets." *Nucleic Acids Research* **2008**, *36*(Suppl 1):D901-D906; doi:10.1093/nar/gkm958.

Wiskocki PG, Grosso LS, and Dybas RA. "Environmental aspects of abamectin use in crop protection." in *Ivermectin and Abamectin*, Campbell WC, Ed., Springer; New York, N.Y., 1989, pp 182-200; http://www.amazon.com/Ivermectin-Abamectin-William-C-Campbell/dp/0387969446.

Wisneski HH. "Determination of musk ambrette, musk xylol, and musk ketone in fragrance products by capillary gas chromatography with electron capture detection." *Journal of AOAC International* **2001**, *84*(2):376-381.

Wisneski HS and Harvey DC. "Nitro musks in fragrance products: an update of FDA findings. (includes related article on self-regulation by the fragrance industry)." *Cosmetics and Toiletries* **1996**.

Witte BD, Langenhove HV, Hemelsoet K, Demeestere K, Wispelaere PD, Van Speybroeck V*, et al.* "Levofloxacin ozonation in water: Rate determining process parameters and reaction pathway elucidation." *Chemosphere* **2009**, *76*(5):683-689; doi:10.1016/j.chemosphere.2009.03.048.

Witte W. "Medical consequences of antibiotic use in agriculture." *Science* **1998**, *279*(5353):996-997; doi:10.1126/science.279.5353.996.

Witte W. "Ecological impact of antibiotic use in animals on different complex microflora: environment." *International Journal of Antimicrobial Agents* **2000**, *14*(4):321-325; doi:10.1016/S0924-8579(00)00144-8.

Witter JD. "A Two Part Thesis: Diurnal Soil Temperature Effects Within the GLOBE(R) Program Dataset and Pharmaceutical Compounds in the Wastewater Process Stream in Northwest Ohio." Masters Dissertation, University of Toledo, Toledo, Ohio, 2008.

68 pp; http://www.ohiolink.edu/etd/view.cgi?acc_num=toledo1208865262.

Wo KT, Lam PKS, and Wu RSS. "A Comparison of Growth Biomarkers for Assessing Sublethal Effects of Cadmium on a Marine Gastropod, Nassarius festivus." *Marine Pollution Bulletin* **1999**, *39*(1-12):165-173; doi:10.1016/S0025-326X(98)00209-4.

Wohlschlag DE and Parker FR. "Fish: Response to Ocean-Dumped Pharmaceutical Wastes." in *Wastes in the Ocean*, John Wiley and Sons; New York, N.Y., 1983, pp 251-270; http://md1.csa.com/partners/viewrecord.php?requester=gs&collection=ENV&recid=8707409&q=+pharmaceutical+disposal&uid=790088066&setcookie=yes.

Wold G HS. "A campaign to promote return of old medicines stored at home." *Tidsskrift for Den Norske Laegeforening* **1992**, *112*:1605-1607.

Woldegiorgis A, Green J, Remberger M, Kaj L, Brorström-Lundén E, Dye C*, et al.* "Results from the Swedish screening 2006 Subreport 4: Pharmaceuticals." IVL Swedish Environmental Research Institute Ltd., B1751, October, 2007, 75 pp; http://www3.ivl.se/rapporter/pdf/B1751.pdf.

Wolf BL and Marks A. "Largess, excess, and tithing." *Journal of Allergy and Clinical Immunology* **2005**, *115*(6):1320-1321; doi:10.1016/j.jaci.2005.02.025.

Wolf L, Eiswirth M, and Hotzl H. "Assessing sewer-groundwater interaction at the city scale based on individual sewer defects and marker species distributions." *Environmental Geology* **2006**, *49*(6):849-857; doi:10.1007/s00254-006-0180-x.

Wolf L, Held I, Eiswirth M, and Hotzl H. "Impact of leaky sewers on groundwater quality." *Acta Hydrochimica et Hydrobiologica* **2004**, *32*(4-5):361-373; doi:10.1002/aheh.200400538.

Wolke A. "Drugs in the drinking water: States weigh whether to act." *State Health Notes* **2008**, *29*(513).

Wollenberger L, Breitholtz M, Ole Kusk K, and Bengtsson B-E. "Inhibition of larval development of the marine copepod Acartia tonsa by four synthetic musk substances." *Science of the Total Environment* **2003**, *305*(1-3):53-64; doi:10.1016/S0048-9697(02)00471-0.

Wollenberger L, Halling-Sorensen B, and Kusk KO. "Acute and chronic toxicity of veterinary antibiotics to Daphnia magna." *Chemosphere* **2000**, *40*(7):723-730; doi:10.1016/S0045-6535(99)00443-9.

Wolska L, Sagajdakow A, Kuczynska A, and Namiesnik J. "Application of ecotoxicological studies in integrated environmental monitoring: Possibilities and problems." *Trends in Analytical Chemistry* **2007**, *26*(4):332-344; doi:10.1016/j.trac.2006.11.012.

Wolters A and Steffens M. "Photodegradation of antibiotics on soil surfaces: Laboratory studies on sulfadiazine in an ozone-controlled environment." *Environmental Science & Technology* **2005**, *39*(16):6071-6078; doi:10.1021/es048264z.

Wolters Kluwer Health. "Top 200 drugs used in hospitals in 2007." *Drug Topics* **2008**, *152*(7D):5.

Wolthers T, Hamberg O, Grofte T, and Vilstrup H. "Effects of budesonide and prednisolone on hepatic kinetics for urea synthesis." *Journal of Hepatology* **2000**, *33*(4):549-554; doi:10.1016/S0168-8278(00)80006-9.

Wolthuis A and de Vreeze J. "Unexpected Testosterone Result for External Quality Assessment Scheme Sample." *Clinical Chemistry* **2005**, *51*(2):475-476; doi:10.1373/clinchem.2004.044842.

Wong CS. "Environmental fate processes and biochemical transformations of chiral emerging organic pollutants." *Analytical and Bioanalytical Chemistry* **2006**, *386*(3):544-558; doi:10.1007/s00216-006-0424-3.

Wong CS and MacLeod SL. "JEM Spotlight: Recent advances in analysis of pharmaceuticals in the aquatic environment." *Journal of Environmental Monitoring* **2009**, *11*(5):923-936; doi:10.1039/b819464e.

Wong DT, Bymaster FP, Reid LR, Mayle DA, Krushinski JH, and Robertson DW. "Norfluoxetine enantiomers as inhibitors of serotonin uptake in rat brain." *Neuropsychopharmacology* **1993**, *8*(4):337-344.

Wong HL, Giesy JP, Siu WHL, and Lam PKS. "Estrogenic and dioxin-like activities and cytotoxicity of sediments and biota from Hong Kong mudflats." *Archives of Environmental Contamination and Toxicology* **2005**, *48*(4):575-586; doi:10.1007/s00244-004-0166-1.

Wong-Wah-Chung P, Rafqah S, Voyard G, and Sarakha M. "Photochemical behaviour of triclosan in aqueous solutions: Kinetic and analytical studies." *Journal of Photochemistry and Photobiology A: Chemistry* **2007**, *191*(2-3):201-208; doi:10.1016/j.jphotochem.2007.04.024.

Wood M, Laloup M, Pien K, Samyn N, Morris M, Maes RAA*, et al.* "Development of a Rapid and Sensitive Method for the Quantitation of Benzodiazepines in Calliphora vicina Larvae and Puparia by LC-MS-MS." *Journal of Analytical Toxicology* **2003**, *27*:505-512.

Woodall KL, Martin TL, and McLellan BA. "Oral Abuse of Fentanyl Patches (Duragesic): Seven Case Reports." *Journal of Forensic Sciences* **2008**, *53*(1):222-225; doi:10.1111/j.1556-4029.2007.00597.x.

Woodbeck M. "Evaluating the potential genotoxicity of disinfected source waters." Masters Dissertation, University of Toronto, Toronto, Ontario, Canada, 2007. 157 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2224209,FM=9,SEARCH=MD.GenericSearch.

Woodend K. "Medication management: The future of pharmaceutical care?" *Canadian Pharmaceutical Journal* **2003**, *136*(1):29-31,46.

Woodhouse AJ. "The hypolipidemic drug gemfibrozil (GEM), alters testosterone levels in male goldfish (Carassius auratus)." Masters Dissertation, University of Ottawa, Ottawa, Ontario, Canada, 2005. 135 pp.

Woodley JM. "New opportunities for biocatalysis: making pharmaceutical processes greener." *Trends in Biotechnology* **2008**, *26*(6):321-327; doi:10.1016/j.tibtech.2008.03.004.

Woodling JD, Lopez EM, Maldonado TA, Norris DO, and Vajda AM. "Intersex and other reproductive disruption of fish in wastewater effluent dominated Colorado streams." *Comparative Biochemistry and Physiology, Part C: Toxicology & Pharmacology* **2006**, *144*(1):10-15; doi:10.1016/j.cbpc.2006.04.019.

Woodruff TJ, Carlson A, Schwartz JM, and Giudice LC. "Proceedings of the Summit on Environmental Challenges to Reproductive Health and Fertility: executive summary." *Fertility and Sterility* **2008**, *89*(2, Supplement 1):e1-e20; doi:10.1016/j.fertnstert.2008.01.065.

Woodruff TJ, Carlson A, Schwartz JM, and Giudice LC. "Proceedings of the Summit on Environmental Challenges to Reproductive Health and Fertility: executive summary special contribution." *Fertility and Sterility* **2008**, *89*(2):281-300; doi:10.1016/j.fertnstert.2007.10.002.

Woodward K, Ed., "Veterinary Pharmacovigilance: Adverse Reactions to Veterinary Medicinal Products." 2009, 776 pp; http://www.wiley.com/WileyCDA/WileyTitle/productCd-1405169680.html.

Woodward KN. "The evolution of safety assessments for veterinary medicinal products in the European Union." *Veterinary and Human Toxicology* **2004**, *46*(4):199-205.

Woodward KN. "Veterinary pharmacovigilance. Part 2. Veterinary pharmacovigilance in practice - the operation of a spontaneous reporting scheme in a European Union country - the UK, and schemes in other countries." *Journal of Veterinary Pharmacology and Therapeutics* **2005**, *28*(2):149-170; doi:10.1111/j.1365-2885.2005.00646.x.

Woodward KN. "Veterinary pharmacovigilance. Part 3. Adverse effects of veterinary medicinal products in animals and on the environment." *Journal of Veterinary Pharmacology and Therapeutics* **2005**, *28*(2):171-184; doi:10.1111/j.1365-2885.2005.00647.x.

Woodward KN. "Assessment of user safety, exposure and risk to veterinary medicinal products in the European Union." *Regulatory Toxicology and Pharmacology* **2008**, *50*(1):114-128; doi:10.1016/j.yrtph.2007.10.007.

Woodward KN. "Environmental Aspects of Veterinary Medicines." in *An Introduction to Environmental Pharmacology*, 1st ed.; Rahman SZ, Shahid M and Gupta V, Eds., Ibn Sina Academy; Aligarh, India, 2008, 3, pp 43-96.

Woodward KN. "Veterinary pharmacovigilance. Part 4. Adverse reactions in humans to veterinary medicinal products." *Journal of Veterinary Pharmacology and Therapeutics* **2009**, *28*(2):185-201.

Woolf A, Burkhart K, Caraccio T, and Litovitz T. "Childhood Poisoning Involving Transdermal Nicotine Patches." *Pediatrics* **1997**, *99*(5):e4; doi:10.1542/peds.99.5.e4.

Woolford CC. "Unused drugs for developing countries." *The Lancet* **1988**, *1*(8588):768.

Wordsworth A, Rang S, Mitchell K, de Leon F, Schifano J, Tickner J*, et al.* "The Challenge of Emerging Substances of Concern in the Great Lakes Basin: A review of chemicals policies and programs in Canada and the United States." Canadian Environmental Law Association, Lowell Center for Sustainable Production, 26 January, 2009, 173 pp.

Wordsworth A, Rang S, Mitchell K, de Leon F, Schifano J, Tickner J*, et al.* "The Challenge of Substances of Emerging Concern in the Great Lakes Basin: A review of chemicals policies and programs in Canada and the United States." Canadian Environmental Law Association and Lowell Center for Sustainable Production, 2 June, 2009, 174 pp; http://www.sustainableproduction.org/downloads/GreatLakesFullReport.pdf, http://www.epa.gov/bns/reports/march2009/IJCCon033109.pdf.

Wormuth M, Demou E, Scheringer M, and Hungerbühler K. "Assessments of Direct Human Exposure - The Approach of EU Risk Assessments Compared to Scenario-Based Risk Assessment." *Risk Analysis* **2007**, *27*(4):979-990; doi:10.1111/j.1539-6924.2007.00936.x.

Wormuth M, Scheringer M, and Hungerbuhler K. "Linking the use of scented consumer products to consumer exposure to polycyclic musk fragrances." *Journal of Industrial Ecology* **2005**, *9*(1-2):237-258.

Wozei E and Hermanowicz SW. "Application of a yeast-based assay protocol developed to monitor total oestrogenic activity induced by 17β-oestradiol in activated sludge supernatants from batch experiments." *Water SA* **2006**, *32*(3):355-364.

Wozei E and Hermanowicz SW. "Developing a yeast-based assay protocol to monitor total oestrogenic activity induced by 17β-oestradiol in activated sludge supernatants from batch experiments." *Water SA* **2006**, *32*(3):345-354.

Wozniak AL, Bulayeva NN, and Watson CS. "Xenoestrogens at picomolar to nanomolar concentrations trigger membrane estrogen receptor-α-medicated Ca^{2+} fluxes and prolactin release in GH3/B6 pituitary tumor cells." *Environmental Health Perspectives* **2005**, *113*(4):431-439; doi:10.1289/ehp.7505.

Wright MS, Peltier GL, Stepanauskas R, and McArthur JV. "Bacterial tolerances to metals and antibiotics in metal-contaminated and reference streams." *FEMS Microbiology Ecology* **2006**, *58*:293-302.

Wright-Walters M and Volz C. "Municipal Wastewater Concentrations of Pharmaceutical and Xeno-Estrogens: Wildlife and Human Health Implications." in *Proceedings of the 2007 National Conference on Environmental Science and Technology*, Springer; New York, NY, 2009, pp 103-113; doi:10.1007/978-0-387-88483-7_15; http://dx.doi.org/10.1007/978-0-387-88483-7_15.

Wrisberg S, Eilersen AM, Barslev Nielsen S, Clemmesen K, Henze M, and Magid J. "Investigation on potentials and limitations for the recycling of nutrients from town to countryside [Vurdering af muligheder og begrænsninger for recirkulering af næringsstoffer fra by til land]." Copenhagen, Denmark, Miljøstyrelsen, Miljø-og Energiministeriet, Økologisk byfornyelse og spildevandsrensning, 2001, 236 pp; http://old.agsci.kvl.dk/nutrap/Publ/vurderingAfMuligheder.pdf.

Wu C, Spongberg AL, and Witter JD. "Sorption and biodegradation of selected antibiotics in biosolids." *Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances and Environmental Engineering* **2009**, *44*(1):454-461; doi:10.1080/10934520902719779.

Wu C, Spongberg AL, and Witter JD. "Adsorption and Degradation of Triclosan and Triclocarban in Soils and Biosolids-Amended Soils." *Journal of Agricultural and Food Chemistry* **2009**, *57*(11):4900-4905; doi:10.1021/jf900376c.

Wu C, Witter JD, Spongberg AL, and Czajkowski KP. "Occurrence of selected pharmaceuticals in an agricultural landscape, western Lake Erie basin." *Water Research* **2009**, *43*(14):3407-3416; doi:10.1016/j.watres.2009.05.014.

Wu C-Y and Benet LZ. "Predicting Drug Disposition via Application of BCS: Transport/Absorption/ Elimination Interplay and Development of a Biopharmaceutics Drug Disposition Classification System." *Pharmaceutical Research* **2005**, *22*(1):11-23; doi:10.1007/s11095-004-9004-4.

Wu J and Lee HK. "Orthogonal array designs for the optimization of liquid-liquid-liquid microextraction of nonsteroidal anti-inflammatory drugs combined with high-performance liquid chromatography-ultraviolet detection." *Journal of Chromatography A* **2005**, *1092*(2):182-190; doi:10.1016/j.chroma.2005.07.032.

Wu J-E, Chang C, Ding W-P, and He D-P. "Determination of Florfenicol Amine Residues in Animal Edible Tissues by an Indirect Competitive ELISA." *Journal of Agricultural and Food Chemistry* **2008**, *56*(18):8261-8267; doi:10.1021/jf8010454.

Wu J-L, Lam NP, Martens D, Kettrup A, and Cai Z. "Triclosan determination in water related to wastewater treatment." *Talanta* **2007**, *72*(5):1650-1654; doi:10.1016/j.talanta.2007.03.024.

Wu Q, Wang M, and Simon JE. "Analytical methods to determine phytoestrogenic compounds." *Journal of Chromatography B: Biomedical Sciences and Applications* **2004**, *812*(1-2):325-355; doi:10.1016/j.jchromb.2004.08.008.

Wu Q-Y, Hu H-Y, Zhao X, and Sun Y-X. "Effect of Chlorination on the Estrogenic/Antiestrogenic Activities of Biologically Treated Wastewater." *Environmental Science & Technology* **2009**, *43*(13):4940-4945; doi:10.1021/es8034329.

Wysowski DK. "Surveillance of Prescription Drug-Related Mortality Using Death Certificate Data." *Drug Safety* **2007**, *30*(6):533-540.

Xagoraraki I, Kuo D, and Kris H. "Water Pollution: Emerging Contaminants Associated with Drinking Water." in *International Encyclopedia of Public Health*, Heggenhougen K and Quah S, Eds., Academic Press; Oxford, 2008, pp 539-550; doi:10.1016/B978-012373960-5.00292-6; http://www.sciencedirect.com/science/article/B98GG-4T7XCGF-7V/2/ec20c7210a3932a396a1b1fa0c65e783.

Xi YL and Feng LK. "Effects of thiophanate-methyl and glyphosate on asexual and sexual reproduction in the rotifer Brachionus calyciflorus Pallas." *Bulletin of Environmental Contamination and Toxicology* **2004**, *73*(4):644-651; doi:10.1007/s00128-004-0475-0.

Xia K. "Analytical Methods for Environmental Samples." in *Contaminats of Emerging Environmental Concern*, Bhandari A, Surampalli RY, Adams CD, Champagne P, Ong SK, Tyagi RD and Zhang TC, Eds., American Society of Civil Engineers; Reston, Virginia, 2008, Chapter 2, pp 7-55; http://books.google.com/books?id=1G7D2d99orkC&source=gbs_navlinks_s.

Xia K, Bhandari A, Das K, and Pillar G. "Occurrence and fate of pharmaceuticals and personal care products (PPCPs) in biosolids." *Journal of Environmental Quality* **2005**, *34*(1):91-104.

Xia K and Jeong CY. "Photodegradation of the endocrine-disrupting chemical 4-nonylphenol in biosolids applied to soil." *Journal of Environmental Quality* **2004**, *33*(4):1568-1574.

Xiao XY, McCalley DV, and McEvoy J. "Analysis of estrogens in river water and effluents using solid-phase extraction and gas chromatography-negative chemical ionisation mass spectrometry of the pentafluorobenzoyl derivatives." *Journal of Chromatography A* **2001**, *923*(1-2):195-204; doi:10.1016/S0021-9673(01)00955-4.

Xiao Y, Chang H, Jia A, and Hu J. "Trace analysis of quinolone, fluoroquinolone antibiotics from wastewaters by liquid chromatography-electrospray tandem mass spectrometry." *Journal of Chromatography A* **2008**, *1214*(1-2):100-108; doi:10.1016/j.chroma.2008.10.090.

Xiaowei Y and Dayi Q. "Full - scale Experimental Research on 6 - APA Wastewater Treatment." *Environmental Science and Management* **2009**, *34*(5):97-99.

Xie L, Sapozhnikova Y, Bawardi O, and Schlenk D. "Evaluation of wetland and tertiary wastewater treatments for estrogenicity using in vivo and in vitro assays." *Archives of Environmental Contamination and Toxicology* **2005**, *48*(1):81-86; doi:10.1007/s00244-004-0062-8.

Xie S, Deng H, Xiang B, and Xiang S. "Detection of Trace Triclocarban in Water Sample Using Solid-Phase Extraction - Liquid Chromatography with Stochastic Resonance Algorithm." *Environmental Science & Technology* **2008**, *42*(8):2988-2991.

Xie Z and Ebinghaus R. "Analytical methods for the determination of emerging organic contaminants in the atmosphere." *Analytica Chimica Acta* **2008**, *610*(2):156-178; doi:10.1016/j.aca.2008.01.055.

Xie Z, Ebinghaus R, Flöser G, Caba A, and Ruck W. "Occurrence and distribution of triclosan in the German Bight (North Sea)." *Environmental Pollution* **2008**, *156*(3):1190-1195; doi:10.1016/j.envpol.2008.04.008.

Xie Z, Ebinghaus R, Temme C, Heemken O, and Ruck W. "Air-sea exchange fluxes of synthetic polycyclic musks in the North Sea and the Arctic." *Environmental Science & Technology* **2007**, *41*(16):5654-5659; doi:10.1021/es0704434.

Xie ZY, Huang HH, and Zhong DF. "Biotransformation of pantoprazole by the fungus Cunninghamella blakesleeana." *Xenobiotica* **2005**, *35*(5):467-477; doi:10.1080/00498250500111414.

Xing MY, Deng C, Godefroid B, and Yang J. "Treatment of pharmaceutical wastewater containing recalcitrant compounds in a Fenton-coagulation process." *Journal of Environmental Sciences (China)* **2006**, *18*(3):459-463.

Xing Z-P and Sun D-Z. "Treatment of antibiotic fermentation wastewater by combined polyferric sulfate coagulation, fenton and sedimentation process." *Journal of Hazardous Materials* **2009**, *168*(2-3):1264-1268; doi:10.1016/j.jhazmat.2009.03.008.

Xu H, Yang J, Wang Y, Jiang Q, Chen H, and Song H. "Exposure to 17α-ethynylestradiol impairs reproductive functions of both male and female zebrafish (Danio rerio)." *Aquatic Toxicology* **2008**, *88*(1):1-8; doi:10.1016/j.aquatox.2008.01.020.

Xu J, Chen W, Wu L, Green R, and Chang AC. "Leachability of some emerging contaminants in reclaimed municipal wastewater-irrigated turf grass fields." *Environmental Toxicology and Chemistry* **2009**, *28*(9):1842-1850; doi:10.1897/08-471.1.

Xu J, Wu L, and Chang AC. "Degradation and adsorption of selected pharmaceuticals and personal care products (PPCPs) in agricultural soils." *Chemosphere* **2009**, *77*(10):1299-1305; doi:10.1016/j.chemosphere.2009.09.063.

Xu J, Wu L, Chen W, and Chang AC. "Simultaneous Determination of Pharmaceuticals, Endocrine Disrupting Compounds and Hormone in Soils by Gas Chromatography-Mass Spectrometry." *Journal of Chromatography A* **2008**, *1202*(2):189-195; doi:10.1016/j.chroma.2008.07.001.

Xu J, Wu L, Chen W, and Chang AC. "Adsorption and Degradation of Ketoprofen in Soils." *Journal of Environmental Quality* **2009**, *38*(3):1177-1182; doi:10.2134/jeq2008.0347.

Xu J, Wu L, Chen W, Jiang P, and Chang AC-S. "Pharmaceuticals and Personal Care Products (PPCPs), and Endocrine Disrupting Compounds (EDCs) in Runoff from a Potato Field Irrigated with Treated Wastewater in Southern California." *Journal of Health Science* **2009**, *55*(2):306-310.

Xu JY, Gallert C, and Winter J. "Multiple antibiotic resistances of Enterococcus isolates from raw or sand-filtered sewage." *Applied Microbiology and Biotechnology* **2007**, *74*(2):493-500; doi:10.1007/s00253-006-0668-z.

Xu K. "Theromdynamics of steroid estrogen sorption To activated sludge." Masters Dissertation, Auburn University, Auburn, Alabama, 2008. 71 pp; http://etd.auburn.edu/etd/bitstream/handle/10415/982/Xu_Kai_29.pdf?sequence=1.

Xu K, Harper Jr WF, and Zhao D. "17α-ethinylestradiol sorption to activated sludge biomass: Thermodynamic properties and reaction mechanisms." *Water Research* **2008**, *42*(12):3146-3152; doi:10.1016/j.watres.2008.03.005.

Xu L, Xu C, Zhao M, Qiu Y, and Daniel Sheng G. "Oxidative Removal of Aqueous Steroid Estrogens by Manganese Oxides." *Water Research* **2008**, *42*(20):5038-5044; doi:10.1016/j.watres.2008.09.016.

Xu N, Johnson AC, Jürgens MD, Llewellyn NR, Hankins NP, and Darton RC. "Estrogen concentration affects its biodegradation rate in activated sludge." *Environmental Toxicology and Chemistry* **2009**, *28*(11):2263-2270; doi:10.1897/08-577.1.

Xu RN, Boyd B, Rieser MJ, and EI-Shourbagy TA. "Simultaneous LC-MS/MS quantitation of a highly hydrophobic pharmaceutical compound and its metabolite in urine using online monolithic phase-based extraction." *Journal of Separation Science* **2007**, *30*(17):2943-2949; doi:10.1002/jssc.200700357.

Xu SH and Chandra G. "Fate of cyclic methylsiloxanes in soils. 2. Rates of degradation and volatilization." *Environmental Science & Technology* **1999**, *33*(22):4034-4039; doi:10.1021/es990099d.

Xu W, Zhang G, Wai O, Zou S, and Li X. "Transport and adsorption of antibiotics by marine sediments in a dynamic environment." *Journal of Soils and Sediments* **2009**, *9*(4):364-373; doi:10.1007/s11368-009-0091-z.

Xu WH, Zhang G, Li XD, Zou SC, Li P, Hu ZH*, et al.* "Occurrence and elimination of antibiotics at four sewage treatment plants in the Pearl River Delta (PRD), South China." *Water Research* **2007**, *41*(19):4526-4534; doi:10.1016/j.watres.2007.06.023.

Xu W-h, Zhang G, Zou S-c, Li X-d, and Liu Y-c. "Determination of selected antibiotics in the Victoria Harbour and the Pearl River, South China using high-performance liquid chromatography-electrospray ionization tandem mass spectrometry." *Environmental Pollution* **2007**, *145*(3):672-679; doi:10.1016/j.envpol.2006.05.038.

Xu X-R and Li X-Y. "Sorption and desorption of antibiotic tetracycline on marine sediments." *Chemosphere* **2009**, *In Press*; doi:10.1016/j.chemosphere.2009.10.045.

Xu X-R, Li X-Y, Li X-Z, and Li H-B. "Degradation of melatonin by UV, UV/H_2O_2, Fe^{2+}/H_2O_2 and UV/Fe^{2+}/H_2O_2 processes." *Separation and Purification Technology* **2009**, *68*(2):261-266; doi:10.1016/j.seppur.2009.05.013.

Xu Y, Guo H, Xiao Q, Su F, and Yin L. "In vitro acute cytotoxicity of abamectin to the Gill Cell Line of Flounder Paralichthy

olivaceus." *Journal of Ocean University of China* **2007**, *6*(4):369-372; doi:10.1007/s11802-007-0369-y.

Xu Z, Fan J, Zheng S, Ma F, and Yin D. "On the Adsorption of Tetracycline by Calcined Magnesium-Aluminum Hydrotalcites." *Journal of Environmental Quality* **2009**, *38*(3):1302-1310; doi:10.2134/jeq2008.0246.

Xu Z, Li L, and Shen Z. "Treatment of praziquantel wastewater using the integrated process of coagulation and gas membrane absorption." *Water Research* **2005**, *39*(10):2189-2195; doi:10.1016/j.watres.2005.04.001.

Yamagishi T, Miyazaki T, Horii S, and Akiyama K. "Synthetic musk residues in biota and water from Tama River and Tokyo Bay (Japan)." *Archives of Environmental Contamination and Toxicology* **1983**, *12*(1):83-89; doi:10.1007/BF01055006.

Yamagishi T, Miyazaki T, Horii S, and Kaneko S. "Identification of musk xylene and musk ketone in freshwater fish collected from the Tama River, Tokyo." *Bulletin of Environmental Contamination and Toxicology* **1981**, *26*(1):656-662; doi:10.1007/BF01622152.

Yamagiwa K, Yoshida M, Ohkawa A, and Takesono S. "Biological treatment of highly foaming pharmaceutical wastewater by modified bubble-column under mechanical foam control." *Water Science and Technology* **2000**, *42*(3-4):331-337.

Yamamoto A, Kakutani N, Yamamoto K, Kamiura T, and Miyakoda H. "Steroid hormone profiles of urban and tidal rivers using LC/MS/MS equipped with electrospray ionization and atmospheric pressure photoionization sources." *Environmental Science & Technology* **2006**, *40*(13):4132-4127; doi:10.1021/es052593p.

Yamamoto H, Hayashi A, Nakamura Y, and Sekizawa J. "Fate and partitioning of selected pharmaceuticals in aquatic environment." *Environmental Sciences* **2005**, *12*(6):347-358.

Yamamoto H and Liljestrand HM. "Partitioning of selected estrogenic compounds between synthetic membrane vesicles and water: Effects of lipid components." *Environmental Science & Technology* **2004**, *38*(4):1139-1147; doi:10.1021/es034311w.

Yamamoto H, Liljestrand HM, and Shimizu Y. "Effects of dissolved organic matter surrogates on the partitioning of 17β-estradiol and p-nonylphenol between synthetic membrane vesicles and water." *Environmental Science & Technology* **2004**, *38*(8):2351-2358; doi:10.1021/es0347311.

Yamamoto H, Liljestrand HM, Shimizu Y, and Morita M. "Effects of physical-chemical characteristics on the sorption of selected endocrine disruptors by dissolved organic matter surrogates." *Environmental Science & Technology* **2003**, *37*(12):2646-2657; doi:10.1021/es026405w.

Yamamoto H, Nakamura Y, Kitani C, Imari T, Sekizawa J, Takao Y*, et al.* "Initial ecological risk assessment of eight selected human pharmaceuticals in Japan." *Environmental Sciences* **2007**, *14*(4):177-193.

Yamamoto H, Nakamura Y, Moriguchi S, Nakamura Y, Honda Y, Tamura I*, et al.* "Persistence and partitioning of eight selected pharmaceuticals in the aquatic environment: Laboratory photolysis, biodegradation, and sorption experiments." *Water Research* **2009**, *43*(2):351-362; doi:10.1016/j.watres.2008.10.039.

Yamamoto H, Watanabe M, Hirata Y, Nakamura Y, Kitani C, Sekizawa J*, et al.* "Preliminary ecological risk assessment of butylparaben and benzylparaben -1. Removal efficiency in wastewater treatment, acute/chronic toxicity for aquatic organisms, and effects on medaka gene expression." *Environmental Sciences* **2007**, *14 Suppl*:73-87.

Yamamoto H, Watanabe M, Katsuki S, Nakamura Y, Moriguchi S, and Sekizawa J. "Preliminary ecological risk assessment of butylparaben and benzylparaben -2. Fate and partitioning in aquatic environments." *Environmental Sciences* **2007**, *14 Suppl*:97-105.

Yamani S. "Zebrafish (Danio rerio) and Japanese medaka (Oryzias latipes) as model species for evaluation of endocrine disrupting chemicals." Masters Dissertation, University of Agricultural Science, Uppsala, Sweden, 2004. 60 pp; http://diss-epsilon.slu.se/archive/00001260/.

Yamashita N, Tanaka H, Miyajima K, and Suzuki Y. "Evaluation of effect of sewage effluent on river water quality using agp and algal growth inhibition tests." *Doboku Gakkai Ronbunshuu G* **2006**, *62*(1):191-200; doi:10.2208/jscejg.62.191.

Yamashita N, Tanaka H, Miyajima K, Tamamoto H, Miyamoto N, Yasojima M*, et al.* "Fate estimation of Estrogenic substances in an urban river by flux calculation." *Water Environment Research* **2006**, *78*(12):2330-2334; doi:10.2175/106143006X95438.

Yamashita N, Yasojima M, Nakada N, Miyajima K, Komori K, Suzuki Y*, et al.* "Effects of antibacterial agents, levofloxacin and clarithromycin, on aquatic organisms." *Water Science and Technology* **2006**, *53*(11):65-72.

Yamauchi R, Ishibashi H, Hirano M, Taiki M, Kim J-W, and Arizono K. "Effects of synthetic polycyclic musks on estrogen receptor, vitellogenin, pregnane X receptor, cytochrome P450 3A gene expression in the livers of male medaka (Oryzias latipes)." *Aquatic Toxicology* **2008**, *90*(4):261-268; doi:10.1016/j.aquatox.2008.09.007.

Yamini Y, Reimann CT, Vatanara A, and Jonsson JA. "Extraction and preconcentration of salbutamol and terbutaline from aqueous samples using hollow fiber supported liquid membrane containing anionic carrier." *Journal of Chromatography A* **2006**, *1124*(1-2):57-67; doi:10.1016/j.chroma.2006.05.001.

Yanagawa C. "[Measures for the disposal of non-regulated alternative medical wastes--safe handling of cytotoxic drugs]." *Rinsho Byori. Japanese Journal of Clinical Pathology* **2000**, *Suppl 112*:120-128.

Yanes O, Woo H-K, Northen TR, Oppenheimer SR, Shriver L, Apon J*, et al.* "Nanostructure Initiator Mass Spectrometry: Tissue Imaging and Direct Biofluid Analysis." *Analytical Chemistry* **2009**, *81*(8):2969-2975; doi:10.1021/ac802576q.

Yang HK. "Essays on direct-to-consumer advertising." Doctoral Dissertation, Cornell University, 2007. 112 pp; http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=35,AN=2229342,FM=9,SEARCH=MD.GenericSearch.

Yang J. "Distribution and removal of synthetic musks in a sewage treatment plant." Masters Dissertation, Trent University, Peterborough - Oshawa, Ontario, Canada, 2004. 103 pp.

Yang J, Wang P, Zhang X, and Wu K. "Electrochemical Sensor for Rapid Detection of Triclosan Using a Multiwall Carbon Nanotube Film." *Journal of Agricultural and Food Chemistry* **2009**, *57*(20):9403-9407; doi:10.1021/jf902721r.

Yang J-F, Ying G-G, Zhou L-J, Liu S, and Zhao J-L. "Dissipation of oxytetracycline in soils under different redox conditions." *Environmental Pollution* **2009**, *157*(10):2704-2709; doi:10.1016/j.envpol.2009.04.031.

Yang J-H, Kostecki PT, Calabrese EJ, and Baldwin LA. "Induction of peroxisome proliferation in rainbow trout exposed to ciprofibrate." *Toxicology and Applied Pharmacology* **1990**, *104*(3):476-482; doi:10.1016/0041-008X(90)90169-U.

Yang J-J and Metcalfe CD. "Fate of synthetic musks in a domestic wastewater treatment plant and in an agricultural field amended with biosolids." *Science of the Total Environment* **2006**, *363*(1-3):149-165; doi:10.1016/j.scitotenv.2005.06.022.

Yang L, Hu C, Nie Y, and Qu J. "Catalytic Ozonation of Selected Pharmaceuticals over Mesoporous Alumina-Supported Manganese Oxide." *Environmental Science & Technology* **2009**, *43*(7):2525-2529; doi:10.1021/es803253c.

Yang L, Luan T, and Lan C. "Solid-phase microextraction with on-fiber silylation for simultaneous determinations of endocrine disrupting chemicals and steroid hormones by gas chromatography-mass spectrometry." *Journal of Chromatography A* **2006**, *1104*(1-2):23-32; doi:10.1016/j.chroma.2005.11.108.

Yang L, Yu LE, and Ray MB. "Photocatalytic Oxidation of Paracetamol in Water." in (578) Water Resources Management, Honolulu, Hawaii, 20-22 August, 2007, http://www.actapress.com/PaperInfo.aspx?PaperID=31164&reason=500, http://www.actapress.com/Content_Of_Proceeding.aspx?ProceedingID=449.

Yang L, Yu LE, and Ray MB. "Degradation of paracetamol in aqueous solutions by TiO2 photocatalysis." *Water Research* **2008**, *42*(13):3480-3488; doi:10.1016/j.watres.2008.04.023.

Yang LH, Lan CY, Liu HT, Dong J, and Luan TG. "Full automation of solid-phase microextraction/on-fiber derivatization for simultaneous determination of endocrine-disrupting chemicals and steroid hormones by gas chromatography-mass spectrometry." *Analytical and Bioanalytical Chemistry* **2006**, *386*(2):391-397; doi:10.1007/s00216-006-0631-y.

Yang L-H, Ying G-G, Su H-C, Stauber J, Adams M, and Binet M. "Growth-inhibiting effects of twelve antibacterial agents and their mixtures on the freshwater microalga pseudokirchneriella subcapitata." *Environmental Toxicology and Chemistry* **2008**, *27*(5):1201-1208.

Yang Q, Zhang J, Zhu K, and Zhang H. "Influence of oxytetracycline on the structure and activity of microbial community in wheat rhizosphere soil." *Journal of Environmental Sciences* **2009**, *21*(7):954-959; doi:10.1016/S1001-0742(08)62367-0.

Yang S and Carlson K. "Evolution of antibiotic occurrence in a river through pristine, urban and agricultural landscapes." *Water Research* **2003**, *37*(19):4645-4656; doi:10.1016/S0043-1354(03)00399-3.

Yang S and Carlson K. "Routine monitoring of antibiotics in water and wastewater with a radioimmunoassay technique." *Water*

Research **2004**, *38*(14-15):3155-3166; doi:10.1016/j.watres.2004.04.028.

Yang S and Carlson KH. "Solid-phase extraction-high-performance liquid chromatography-ion trap mass spectrometry for analysis of trace concentrations of macrolide antibiotics in natural and waste water matrices." *Journal of Chromatography A* **2004**, *1038*(1-2):141-155; doi:10.1016/j.chroma.2004.02.084.

Yang S, Cha J, and Carlson K. "Simultaneous extraction and analysis of 11 tetracycline and sulfonamide antibiotics in influent and effluent domestic wastewater by solid-phase extraction and liquid chromatography-electrospray ionization tandem mass spectrometry." *Journal of Chromatography A* **2005**, *1097*(1-2):40-53; doi:10.1016/j.chroma.2005.08.027.

Yang SW, Cha JM, and Carlson KH. "Trace analysis and occurrence of anhydroerythromycin and tylosin in influent and effluent wastewater by liquid chromatography combined with electrospray tandem mass spectrometry." *Analytical and Bioanalytical Chemistry* **2006**, *385*(3):623-636; doi:10.1007/s00216-006-0416-3.

Yang SW, Chan TM, Terracciano J, Patel R, Loebenberg D, Chen GD*, et al.* "A new anthracycline antibiotic micromonomycin from Micromonospora sp." *Journal of Antibiotics* **2004**, *57*(9):601-604; doi:10.1002/chin.200511233.

Yang TS. "Environmental sustainability and social desirability issues in pig feeding." *Asian-Australasian J Animal Sci* **2007**, *20*(4):605-614.

Yang Y, Wang P, Shi S, and Liu Y. "Microwave enhanced Fenton-like process for the treatment of high concentration pharmaceutical wastewater." *Journal of Hazardous Materials* **2009**, *168*(1):238-245; doi:10.1016/j.jhazmat.2009.02.038.

Yangali-Quintanilla V, Kim T-U, Kennedy M, and Amy G. "Modeling of RO/NF membrane rejections of PhACs and organic compounds: a statistical analysis." *Drinking Water Engineering and Science* **2008**, *1*:7-15.

Yangali-Quintanilla V, Klm T-U, Kennedy M, and Amy G. "Prediction of RO/NF membrane rejections of PhACs and organic compounds: a statistical analysis." *Drinking Water Engineering Science and Discussions* **2008**, *1*:21-44.

Yangali-Quintanilla V, Sadmani A, McConville M, Kennedy M, and Amy G. "Rejection of Pharmaceutically Active Compounds and Endocrine Disrupting Compounds by Clean and Fouled Nanofiltration Membranes." *Water Research* **2009**, *43*(9):2349-2362; doi:10.1016/j.watres.2009.02.027.

Yangali-Quintanilla V, Sadmani A, McConville M, Kennedy M, and Amy G. "A QSAR Model for Predicting Rejection of Emerging Contaminants (pharmaceuticals, endocrine disruptors) by Nanofiltration Membranes." *Water Research* **2009**, *In Press*; doi:10.1016/j.watres.2009.06.054.

Yangali-Quintanilla V, Verliefde A, Kim TU, Sadmani A, Kennedy M, and Amy G. "Artificial neural network models based on QSAR for predicting rejection of neutral organic compounds by polyamide nanofiltration and reverse osmosis membranes." *Journal of Membrane Science* **2009**, *342*(1-2):251-262; doi:10.1016/j.memsci.2009.06.048.

Yanong RPE, Curtis EW, Simmons R, Bhattaram VA, Gopalakrishnan M, Ketabi N*, et al.* "Pharmacokinetic Studies of Florfenicol in Koi Carp and Threespot Gourami Trichogaster trichopterus after Oral and Intramuscular Treatment." *Journal of Aquatic Animal Health* **2005**, *17*(2):129-137; doi:10.1577/H03-065.1.

Yargeau V. "Impact of Operating Conditions on Decomposition of Antibiotics During Ozonation: A Review." *Ozone: Science & Engineering* **2008**, *30*(3):175-188; doi:10.1080/01919510701878387.

Yargeau V, Huot JC, Rodayan A, Rouleau L, Roy R, and Leask RL. "Impact of degradation products of sulfamethoxazole on mammalian cultured cells." *Environmental Toxicology* **2008**, *23*(4):492-498; doi:10.1002/tox.20368.

Yarnell A. "Doing DNA damage assessment." *Chemical & Engineering News* **2003**, *81*(10):33-35.

Yarnell A. "Kicking out drug resistance." *Chemical & Engineering News* **2004**, *82*(46):6.

Yarnell AT. "Heavy-Hydrogen Drugs Turn Heads, Again." *Chemical & Engineering News* **2009**, *87*(25):36-39.

Yasojima M, Nakada N, Komori K, Suzuki Y, and Tanaka H. "Occurrence of levofloxacin, clarithromycin and azithromycin in wastewater treatment plant in Japan." *Water Science and Technology* **2006**, *53*(11):227-233; doi:10.2166/wst.2006.357.

Yasojima M, Yamashita N, Nakada N, Komori K, Suzuki Y, and Tanaka H. "Development of Analytical Method for Levofloxacin and Clarithromycin in Secondary Effluent and Their Adverse Effects on Algal Growth." *Journal of Japan Society on Water*

Environment **2004**, *27*(11):707-714.

Yazdankhah SP, Scheie AA, Hoiby EA, Lunestad BT, Heir E, Fotland TO*, et al.* "Triclosan and antimicrobial resistance in bacteria: an overview." *Microbial Drug Resistance* **2006**, *12*(2):83-90; doi:10.1089/mdr.2006.12.83.

Ye S, Yao ZW, Na GS, Wang JY, and Ma DY. "Rapid simultaneous determination of 14 sulfonamides in wastewater by liquid chromatography tandem mass spectrometry." *Journal of Separation Science* **2007**, *30*(15):2360-2369; doi:10.1002/jssc.200600539.

Ye X, Bishop AM, Needham LL, and Calafat AM. "Automated on-line column-switching HPLC-MS/MS method with peak focusing for measuring parabens, triclosan, and other environmental phenols in human milk." *Analytica Chimica Acta* **2008**, *622*(1-2):150-156; doi:10.1016/j.aca.2008.05.068.

Ye X, Bishop AM, Reidy JA, Needham LL, and Calafat AM. "Parabens as urinary biomarkers of exposure in humans." *Environmental Health Perspectives* **2006**, *114*(12):1843-1846; doi:10.1289/ehp.9413.

Ye X, Bishop AM, Reidy JA, Needham LL, and Calafat AM. "Temporal stability of the conjugated species of bisphenol A, parabens, and other environmental phenols in human urine." *Journal of Exposure Science and Environmental Epidemiology* **2007**, *17*:567-572; doi:10.1038/sj.jes.7500566.

Ye X, Kuklenyik Z, Bishop AM, Needham LL, and Calafat AM. "Quantification of the urinary concentrations of parabens in humans by on-line solid phase extraction-high performance liquid chromatography-isotope dilution tandem mass spectrometry." *Journal of Chromatography B: Biomedical Sciences and Applications* **2006**, *844*(1):53-59; doi:10.1016/j.jchromb.2006.06.037.

Ye Z, Weinberg HS, and Meyer MT. "Trace Analysis of Trimethoprim and Sulfonamide, Macrolide, Quinolone, and Tetracycline Antibiotics in Chlorinated Drinking Water Using Liquid Chromatography Electrospray Tandem Mass Spectrometry." *Analytical Chemistry* **2007**, *79*(3):1135-1144; doi:10.1021/ac060972a.

Yeager R and Halley B. "Sorption/desorption of [14C] efrotomycin with soils." *Journal of Agricultural and Food Chemistry* **1990**, *38*(3):883-886.

Yebra MC and Cespon RM. "Automatic determination of quinine by atomic absorption spectrometry." *Microchemical Journal* **2000**, *65*(1):81-86; doi:10.1016/S0026-265X(00)00034-5.

Yebra MC, Cespon RM, and Moreno-Cid A. "Automatic determination of ascorbic acid by flame atomic absorption spectrometry." *Analytica Chimica Acta* **2001**, *448*(1-2):157-164; doi:10.1016/S0003-2670(01)01327-7.

Yeom D-H, Lee S-A, Kang GS, Seo J, and Lee S-K. "Stressor identification and health assessment of fish exposed to wastewater effluents in Miho Stream, South Korea." *Chemosphere* **2007**, *67*(11):2282-2292; doi:10.1016/j.chemosphere.2006.09.071.

Yerasi AB and Butts JD. "Disposal of used fentanyl patches." *American Journal of Health-System Pharmacy* **1997**, *54*(1):85-86.

Yeston J. "CHEMISTRY: Peering down the Drain." *Science* **2008**, *321*(5887):318a-; doi:10.1126/science.321.5887.318a.

Yi T. "Sorption and biodegradation of pharmaceutical compounds in biological wastewater treatment process." Doctoral Dissertation, Auburn University, Auburn, Alabama, 2007. 215 pp.

Yi T and Harper Jr WF. "Corrigendum to "The effect of biomass characteristics on the partitioning and sorption hysteresis of 17α-ethinyl estradiol" [Water Res. 41 (2007) 07]." *Water Research* **2007**, *41*(15):3513; doi:10.1016/j.watres.2007.05.023.

Yi T and Harper JWF. "The effect of biomass characteristics on the partitioning and sorption hysteresis of 17α-ethinylestradiol." *Water Research* **2007**, *41*(7):1543-1553; doi:10.1016/j.watres.2006.12.023.

Yi T and Harper WF. "The link between nitrification and biotransformation of 17α-ethinylestradiol." *Environmental Science & Technology* **2007**, *41*(12):4311-4316; doi:10.1021/es070102q.

Yildirim MA, Goh K-I, Cusick ME, Barabási A-L, and Vidal M. "Drug-target network." *Nature Biotechnology* **2007**, *25*(10):1119-1126; doi:10.1038/nbt1338.

Yin J, Shao B, Zhang J, and Li K. "A Preliminary Study on the Occurrence of Cytostatic Drugs in Hospital Effluents in Beijing, China." *Bulletin of Environmental Contamination and Toxicology* **2008**, *In press*; doi:10.1007/s00128-009-9884-4.

Yin Y, He X, Szewczyk P, Nguyen T, and Chang G. "Structure of the multidrug transporter EmrD from escherichia coli." *Science*

2006, *312*(5774):741-744; doi:10.1126/science.1125629.

Ying G-G. "Analysis of endocrine disrupting chemicals and pharmaceuticals and personal care products in water." in *Handbook of water analysis*, Second ed.; Nollet LML, Ed., CRC Press Taylor & Francis Group; 2005, 25, pp 693-728; http://books.google.com/books?hl=en&lr=&id=YZpW4Y4Q_PIC&oi=fnd&pg=PA693&dq=sewage+Sulfacetamide&ots=EHavYnXlF4&sig=6hPa7Bz5SfvGacaAQdHylOqIGnU

Ying GG and Kookana RS. "Degradation of five selected endocrine-disrupting chemicals in seawater and marine sediment." *Environmental Science & Technology* **2003**, *37*(7):1256-1260; doi:10.1021/es0262232.

Ying GG and Kookana RS. "Sorption and degradation of estrogen-like-endocrine disrupting chemicals in soil." *Environmental Toxicology and Chemistry* **2005**, *24*(10):2640-2645; doi:10.1897/05-074R.1.

Ying GG, Kookana RS, and Chen ZL. "On-line solid-phase extraction and fluorescence detection of selected endocrine disrupting chemicals in water by high-performance liquid chromatography." *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants and Agricultural Wastes* **2002**, *B37*(3):225-234.

Ying GG, Kookana RS, and Dillon P. "Attenuation of two estrogen compounds in aquifer materials supplemented with sewage effluent." *Ground Water Monitoring & Remediation* **2004**, *24*(2):102-107; doi:10.1111/j.1745-6592.2004.tb00718.x.

Ying GG, Kookana RS, and Kumar A. "Fate of estrogens and xenoestrogens in four sewage treatment plants with different technologies." *Environmental Toxicology and Chemistry* **2008**, *27*(1):87-94; doi:10.1897/07-046.1.

Ying G-G, Kookana R, and Waite TD. "Endocrine Disrupting Chemicals (EDCs) and Pharmaceuticals and Personal Care Products (PPCPs) in Reclaimed Water in Australia." Australian Water Conservation and Reuse Research Program, a joint initiative of CSIRO and AWA, January, 2004, 35 pp.

Ying G-G and Kookana RS. "Triclosan in wastewaters and biosolids from Australian wastewater treatment plants." *Environment International* **2007**, *33*(2):199-205; doi:10.1016/j.envint.2006.09.008.

Ying G-G, Kookana RS, and Dillon P. "Sorption and degradation of selected five endocrine disrupting chemicals in aquifer material." *Water Research* **2003**, *37*(15):3785-3791; doi:10.1016/S0043-1354(03)00261-6.

Ying G-G, Kookana RS, and Kolpin DW. "Occurrence and removal of pharmaceutically active compounds in sewage treatment plants with different technologies." *Journal of Environmental Monitoring* **2009**, *11*:1498-1505; doi:10.1039/b904548a.

Ying G-G, Kookana RS, Kumar A, and Mortimer M. "Occurrence and implications of estrogens and xenoestrogens in sewage effluents and receiving waters from South East Queensland." *Science of the Total Environment* **2009**, *407*(18):5147-5155; doi:10.1016/j.scitotenv.2009.06.002.

Ying G-G, Kookana RS, and Ru Y-J. "Occurrence and fate of hormone steroids in the environment." *Environment International* **2002**, *28*(6):545-551; doi:10.1016/S0160-4120(02)00075-2.

Ying G-G, Toze S, Hanna J, Yu X-Y, Dillon PJ, and Kookana RS. "Decay of endocrine-disrupting chemicals in aerobic and anoxic groundwater." *Water Research* **2008**, *72*(4-5):1133-1141; doi:10.1016/j.watres.2007.08.029.

Ying G-G, Yu X-Y, and Kookana RS. "Biological degradation of triclocarban and triclosan in a soil under aerobic and anaerobic conditions and comparison with environmental fate modelling." *Environmental Pollution* **2007**, *150*(3):300-305; doi:10.1016/j.envpol.2007.02.013.

Ylitalo GM, Buzitis J, and Krahn MM. "Analyses of tissues of eight marine species from Atlantic and Pacific coasts for dioxin-like chlorobiphenyls (CBs) and total CBs." *Archives of Environmental Contamination and Toxicology* **1999**, *37*(2):205-219; doi:10.1007/s002449900507.

Yokota S-i, Kitahara M, and Nagata K. "Benzylidene Lactam Compound, KNK437, a Novel Inhibitor of Acquisition of Thermotolerance and Heat Shock Protein Induction in Human Colon Carcinoma Cells." *Cancer Research* **2000**, *60*(11):2942-2948.

Yonezawa T, Hasegawa S-i, Ahn J-Y, Cha B-Y, Teruya T, Hagiwara H*, et al.* "Tributyltin and triphenyltin inhibit osteoclast differentiation through a retinoic acid receptor-dependent signaling pathway." *Biochemical and Biophysical Research Communications* **2007**, *355*(1):10-15; doi:10.1016/j.bbrc.2006.12.237.

Yong Z, Gang X, Guanxing W, Tao Z, and Dawei J. "Medical waste management in China: A case study of Nanjing." *Waste*

Management **2009**, *29*(4):1376-1382; doi:10.1016/j.wasman.2008.10.023.

Yoon Y, Ryu J, Oh J, Choi B-G, and Snyder SA. "Occurrence of endocrine disrupting compounds, pharmaceuticals, and personal care products in the Han River (Seoul, South Korea)." *Science of the Total Environment* **2010**, *408*(3):636-643; doi:10.1016/j.scitotenv.2009.10.049.

Yoon Y, Westerhoff P, and Snyder SA. "Adsorption of ^{3}H-Labeled 17-β Estradiol on Powdered Activated Carbon." *Water, Air, & Soil Pollution* **2005**, *166*(1-4):343-351; doi:10.1007/s11270-005-7274-z.

Yoon Y, Westerhoff P, Snyder SA, and Wert EC. "Nanofiltration and ultrafiltration of endocrine disrupting compounds, pharmaceuticals and personal care products." *Journal of Membrane Science* **2006**, *270*(1-2):88-100; doi:10.1016/j.memsci.2005.06.045.

Yoon Y, Westerhoff P, Snyder SA, Wert EC, and Yoon J. "Removal of endocrine disrupting compounds and pharmaceuticals by nanofiltration and ultrafiltration membranes." *Desalination* **2007**, *202*(1-3):16-23; doi:10.1016/j.desal.2005.12.033.

Yoon Y, Westerhoff P, Yoon J, and Snyder SA. "Removal of 17β estradiol and fluoranthene by nanofiltration and ultrafiltration." *Journal of Environmental Engineering* **2004**, *130*(12):1460-1467; doi:10.1061/(ASCE)0733-9372.

Yoon YM, Westerhoff P, Snyder SA, and Esparza M. "HPLC-fluorescence detection and adsorption of bisphenol A, 17β-estradiol, and 17α-ethynyl estradiol on powdered activated carbon." *Water Research* **2003**, *37*(4):3530-3537; doi:10.1016/S0043-1354(03)00239-2.

Yoshida N, Castro M, du Mortier C, and Cirelli AF. "Environmental behavior of antibiotic monensin: preliminary studies in Argentina." *Environmental Chemistry Letters* **2007**, *5*(3):157-160; doi:10.1007/s10311-007-0098-x.

Yoshimoto T, Nagai F, Fujimoto J, Watanabe K, Mizukoshi H, Makino T*, et al.* "Degradation of Estrogens by Rhodococcus zopfii and Rhodococcus equi Isolates from Activated Sludge in Wastewater Treatment Plants." *Applied and Environmental Microbiology* **2004**, *70*(9):5283-5289; doi:10.1128/aem.70.9.5283-5289.2004.

Yoshimura H and Endoh YS. "Acute toxicity to freshwater organisms of antiparasitic drugs for veterinary use." *Environmental Toxicology* **2005**, *20*(1):60-66; doi:10.1002/tox.20078.

Yoshimura H, Endoh YS, and Harada K. "Gryllus bimaculatus: A possible bioindicator organism for detection of chemical pollutants in terrestrial systems." *Ecological Indicators* **2005**, *5*(3):181-188; doi:10.1016/j.ecolind.2005.03.001.

Yoshioka Y. "The state and the future development/perspective of Environmental Risk Assessment of Medicinal Products for Human Use: Aspects of Its Regulations in Japan." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 3rd ed.; Kümmerer K, Ed., Springer; Berlin Heidelberg, Germany, 2008, Chapter 21, pp 335-341; doi:10.1007/978-3-540-74664-5_21; http://www.springerlink.com/content/h1w16216812n4327/?p=4bab46964f1c458495d92188d8364735&pi=20.

Young D. "Improper discard of toxic drugs hurts environment, leads to fines." *American Journal of Health-System Pharmacy* **2001**, *58*(17):1576-1578.

Young TA, Heidler J, Matos-PÃ©rez CR, Sapkota A, Toler T, Gibson KE*, et al.* "Ab Initio and in Situ Comparison of Caffeine, Triclosan, and Triclocarban as Indicators of Sewage-Derived Microbes in Surface Waters." *Environmental Science & Technology* **2008**, *42*(9):3335-3340; doi:10.1021/es702591r.

Young WF, Whitehouse P, Johnson I, and Sorokin N. "Proposed predicted-no-effect-concentrations (PNECs) for natural and synthetic steroid oestrogens in surface waters." WRc-NSF, R&D Technical Report P2-T04/1, Swindon, Wilts, 2004, 172 pp; http://publications.environment-agency.gov.uk/pdf/SP2-T04-TR1-e-p.pdf?lang=_e.

Yu A, Huang P, Gui D, Wang H, Feng Q, Chu L*, et al.* "Application of combined physicochemical and biological processes for enhanced treatment of avermectin fermentation wastewater." *Water Science and Technology* **2009**, *59*(4):771-777.

Yu CP and Chu KH. "Occurrence of pharmaceuticals and personal care products in East Tennessee rivers." *Abstracts of Papers - American Chemical Society* **2004**, *228*(1 Aug 22):U637-U637.

Yu CP, Roh H, and Chu KH. "17β-estradiol-degrading bacteria isolated from activated sludge." *Environmental Science & Technology* **2007**, *41*(2):486-492; doi:10.1021/es060923f.

Yu C-P and Chu K-H. "Occurrence of pharmaceuticals and personal care products along the West Prong Little Pigeon River in east

Tennessee, USA." *Chemosphere* **2009**, *75*(10):1281-1286; doi:10.1016/j.chemosphere.2009.03.043.

Yu DB, Li Y, Sleigh AC, Yu XL, Li YS, Wei WY*, et al.* "Efficacy of praziquantel against Schistosoma japonicum: field evaluation in an area with repeated chemotherapy compared with a newly identified endemic focus in Hunan." *China Transactions of the Royal Society of Tropical Medicine and Hygiene* **2001**, *95*:537-541.

Yu DB, Ross AGP, Williams GM, Li YS, and McManus DP. "Determinants of hepato- and spleno-megaly in Hunan, China: cross-sectional survey data from areas endemic for schistosomiasis." *Annals Tropical Med Parasitol* **2001**, *95*(7):707-713; doi:10.1080/00034980120103261.

Yu J, Bisceglia KJ, Coelhan M, Roberts AL, and Bouwer EJ. "Predicting the influence of operating characteristics on pharmaceutical and personal care products removal in wastewater treatment plants." *Abstracts of Papers - American Chemical Society* **2006**, *231*(Mar 26).

Yu JC, Kwong TY, Luo Q, and Cai Z. "Photocatalytic oxidation of triclosan." *Chemosphere* **2006**, *65*(3):390-399; doi:10.1016/j.chemosphere.2006.02.011.

Yu JT. "Occurrence and biodegradability of selected pharmaceuticals and personal care products." Doctoral Dissertation, The Johns Hopkins University, Baltimore, MD, 2007. 248 pp.

Yu JT, Bouwer EJ, and Coelhan M. "Occurrence and biodegradability studies of selected pharmaceuticals and personal care products in sewage effluent." *Agricultural Water Management* **2006**, *86*(1-2):72-80; doi:10.1016/j.agwat.2006.06.015.

Yu KL, Rosenblum PM, and Peter RE. "In vitro release of gonadotropin-releasing hormone from the brain preopticanterior hypothalamic region and pituitary of female goldfish." *General and Comparative Endocrinology* **1991**, *81*(2):256-267; doi:10.1016/0016-6480(91)90010-4.

Yu L, Fink G, Wintgens T, Melin T, and Ternes TA. "Sorption behavior of potential organic wastewater indicators with soils." *Water Research* **2009**, *43*(4):951-960; doi:10.1016/j.watres.2008.11.032.

Yu S, Lee B, Lee M, Cho I-H, and Chang S-W. "Decomposition and mineralization of cefaclor by ionizing radiation: Kinetics and effects of the radical scavengers." *Chemosphere* **2008**, *71*(11):2106-2112; doi:10.1016/j.chemosphere.2008.01.020.

Yu SJ, Gomez DG, and Campiglia AD. "Solid-liquid extraction fluorescence line narrowing spectroscopy of fluoroquinolones in aqueous samples." *Applied Spectroscopy* **2006**, *60*(10):246A-272A and 1174-1180; doi:10.1366/000370206778664617.

Yu T-H, Lin AY-C, Lateef SK, Lin C-F, and Yang P-Y. "Removal of antibiotics and non-steroidal anti-inflammatory drugs by extended sludge age biological process." *Chemosphere* **2009**, *77*(2):175-181; doi:10.1016/j.chemosphere.2009.07.049.

Yu X, Trapp S, Zhou P, Peng X, and Cao X. "Response of weeping willows to linear alkylbenzene sulfonate." *Chemosphere* **2006**, *64*(1):43-48; doi:10.1016/j.chemosphere.2005.11.025.

Yu YM, Punyasavatsu N, Elder D, and D'Ercole AJ. "Sexual Development in a Two-Year-Old Boy Induced by Topical Exposure to Testosterone." *Pediatrics* **1999**, *104*(2):e23; doi:10.1542/peds.104.2.e23.

Yu Z. "Analysis of Selected Pharmaceuticals and Endocrine Disrupting Compounds and their Removal by Granular Activated Carbon in Drinking Water Treatment." Doctoral Dissertation, University of Waterloo, Waterloo, Ontario, Canada, 2007. 367 pp; http://uwspace.uwaterloo.ca/handle/10012/3309.

Yu Z, Peldszus S, and Huck PM. "Optimizing gas chromatographic-mass spectrometric analysis of selected pharmaceuticals and endocrine-disrupting substances in water using factorial experimental design." *Journal of Chromatography A* **2007**, *1148*(1):65-77; doi:10.1016/j.chroma.2007.02.047.

Yu Z, Peldszus S, and Huck PM. "Adsorption characteristics of selected pharmaceuticals and an endocrine disrupting compound--Naproxen, carbamazepine and nonylphenol--on activated carbon." *Water Research* **2008**, *42*(12):2873-2882; doi:10.1016/j.watres.2008.02.020.

Yu Z, Peldszus S, and Huck PM. "Adsorption of Selected Pharmaceuticals and an Endocrine Disrupting Compound by Granular Activated Carbon. 1. Adsorption Capacity and Kinetics." *Environmental Science & Technology* **2009**, *43*(5):1467-1473; doi:10.1021/es801961y.

Yu Z, Peldszus S, and Huck PM. "Adsorption of Selected Pharmaceuticals and an Endocrine Disrupting Compound by Granular

Activated Carbon. 2. Model Prediction." *Environmental Science & Technology* **2009**, *53*(5):1474-1479; doi:10.1021/es7032185.

Yu ZQ and Huang WL. "Competitive sorption between 17α-ethinyl estradiol and naphthalene/phenanthrene by sediments." *Environmental Science & Technology* **2005**, *39*(13):4878-4885; doi:10.1021/es048558k.

Yu ZQ, Xiao BH, Huang WL, and Peng P. "Sorption of steroid estrogens to soils and sediments." *Environmental Toxicology and Chemistry* **2004**, *23*(3):531-539; doi:10.1897/03-192.

Yuan F, Hu C, Hu X, Qu J, and Yang M. "Degradation of selected pharmaceuticals in aqueous solution with UV and UV/H_2O_2." *Water Research* **2009**, *43*(6):1766-1774; doi:10.1016/j.watres.2009.01.008.

Yuan T. "Comment on "Estrogen receptor agonist fate during wastewater and biosolids treatment processes: A mass balance analysis"." *Environmental Science & Technology* **2003**, *37*(20):4819-4820; doi:10.1021/es030436p.

Yuan T, Hu JY, Ong SL, and Ng WJ. "Simultaneous analysis of five selected phenolic xenoestrogens in water sample using solid phase extraction gas chromatography mass spectrometry." *Journal of Chromatography A* **2003**, *58*(9-10):643-648; doi:10.1365/s10337-003-0067-x.

Yuasa H, Soga N, Kimura Y, and Watanabe J. "Effect of aging on the intestinal transport of hydrophilic drugs in the rat small intestine." *Biological & Pharmaceutical Bulletin* **1997**, *20*(11):1188-1192.

Yue C. "Effect of drinking water ozone treatment on select pharmaceuticals and personal care products (PPCPs) and endocrine disrupting compounds (EDCs)." Masters Dissertation, University of Windsor, Windsor, Ontario, Canada, 2008. 141 pp.

Yue J, Qian X, George ZY, Leong Y, and Zhang L. "Analysis of Selected Pharmaceutical Compounds in Water by Solid Phase Extraction and Ultra Performance Liquid Chromatography Coupled with Tandem Mass Spectrometry." *Proceedings of the Water Environment Federation* **2008**, *Session 81 through Session 90*:6642-6647.

Yurdakal S, Loddo V, Augugliaro V, Berber H, Palmisano G, and Palmisano L. "Photodegradation of pharmaceutical drugs in aqueous TiO2 suspensions: Mechanism and kinetics." *Catalysis Today* **2007**, *129*(1-2):9-15; doi:10.1016/j.cattod.2007.06.044.

Zabczynski S, Buntner D, and Miksch K. "Report of new strategies for minimise PPs discharge." KNAPPE: Knowledge and Need Assessment on Pharmaceutical Products in Environmental Waters, 2008, 52 pp; http://www.knappe-eu.org/fichiers/45-D2%202_Report%20of%20new%20strategies%20for%20minimise%20PPs%20discharge.pdf.

Zabranska J, Jenicek P, and Dohanyos M. "The determination of anaerobic biodegradability of pharmaceutical wastes by methanogenic activity tests." *Water Science and Technology* **1994**, *30*(3):103-107.

Zachariah TT. "Evaluating the Effect of Two Commercial Antimicrobial Products on Salmonella spp. in the Aquatic Habitat of the Red-Eared Slider Turtle (Trachemys scripta elegans)." Masters Dissertation, Louisiana State University and Agricultural and Mechnical College, Veterinary Clinical Sciences, 2007. 89 pp; http://etd.lsu.edu/docs/available/etd-04092007-222043/.

Zaja R, Caminada D, Loncar J, Fent K, and Smital T. "Development and characterization of P-glycoprotein 1 (Pgp1, ABCB1)-mediated doxorubicin-resistant PLHC-1 hepatoma fish cell line." *Toxicology and Applied Pharmacology* **2008**, *227*(2):207-218; doi:10.1016/j.taap.2007.11.001.

Zala SM and Penn DJ. "Abnormal behaviours induced by chemical pollution: a review of the evidence and new challenges." *Animal Behaviour* **2004**, *68*(4):649-664; doi:10.1016/j.anbehav.2004.01.005.

Zan R, Kowalski C, and Burivianczuk A. "Elimination rates of 8-a-hydroxymutilin, a residue marker of tiamulin in pigs." *Medycyna Weterynaryjna* **2006**, *62*(4):448-451.

Zarfl C, Klasmeier J, and Matthies M. "A conceptual model describing the fate of sulfadiazine and its metabolites observed in manure-amended soils." *Chemosphere* **2009**, *77*(6):720-726; doi:10.1016/j.chemosphere.2009.08.035.

Zargarzadeh AH, Tavakoli N, and Hassanzadeh A. "A survey on the extent of medication storage and wastage in urban Iranian households." *Clinical Therapeutics* **2005**, *27*(6):970-978; doi:10.1016/S0149-2918(05)00122-0.

Zaromb S, Alcaraz J, Lawson D, and Woo CS. "Detection of airborne cocaine and heroin by high-throughput liquid-absorption preconcentration and liquid chromatography-electrochemical detection." *Journal of Chromatography* **1993**, *643*(1-2):107-115.

Zarzycki PK, Wlodarczyk E, and Baran MJ. "Determination of endocrine disrupting compounds using temperature-dependent

inclusion chromatography II. Fast screening of free steroids and related low-molecular-mass compounds fraction in the environmental samples derived from surface waters, treated and untreated sewage waters as well as activated sludge material." *Journal of Chromatography A* **2009**, *1216*(44):7612-7622; doi:10.1016/j.chroma.2009.03.066.

Zarzycki PK, Wlodarczyk E, and Baran MJ. "Determination of endocrine disrupting compounds using temperature-dependent inclusion chromatography: I. Optimization of separation protocol." *Journal of Chromatography A* **2009**, *1216*(44):7602-7611; doi:10.1016/j.chroma.2009.03.067.

Zavitsanos P. "Using the LC-Atmospheric pressure ionization-ion trap for the analysis of steroids in water." in *ACS Symposium #850: Liquid Chromatography/Mass Spectrometry, MS/MS and Time of Flight MS: Analysis of Emerging Contaminants*, Almagor UM, Ed., American Chemical Society; 2003, Chapter 13, pp 207-236; http://www.powells.com/biblio?isbn=9780841238251.

Zazo JA, Casas JA, Molina CB, Quintanilla A, and Rodriguez JJ. "Evolution of ecotoxicity upon Fenton's oxidation of phenol in water." *Environmental Science & Technology* **2007**, *41*(20):7164-7170; doi:10.1021/es0710631.

Zazouli MA, Susanto H, Nasseri S, and Ulbricht M. "Influences of solution chemistry and polymeric natural organic matter on the removal of aquatic pharmaceutical residuals by nanofiltration." *Water Research* **2009**, *43*(13):3270-3280; doi:10.1016/j.watres.2009.04.038.

Zed PJ, PharmD, Abu-Laban RB, MD MHSc, Balen RM, PharmD, Loewen PS, PharmD, Hohl CM, MD, Brubacher JR, MD MSc*, et al.* "Incidence, severity and preventability of medication-related visits to the emergency department: a prospective study." *Canadian Medical Association Journal* **2008**, *178*(12):1563-1569; doi:10.1503/cmaj.071594.

Žegura B, Heath E, Černoša A, and Filipič M. "Combination of in vitro bioassays for the determination of cytotoxic and genotoxic potential of wastewater, surface water and drinking water samples." *Chemosphere* **2009**, *75*(11):1453-1460; doi:10.1016/j.chemosphere.2009.02.041.

Zeilinger J, Steger-Hartmann T, Maser E, Goller S, Vonk R, and Länge R. "Effects of synthetic gestagens on fish reproduction." *Environmental Toxicology and Chemistry* **2009**, *28*(12):2663-2670; doi:10.1897/08-485.1.

Zeisel SH. "Regulation of 'Nutraceuticals'." *Science* **1999**, *285*(5435):1853-1855; doi:10.1126/science.285.5435.1853.

Zeleny R, Ulberth F, Gowik P, Polzer J, van Ginkel LA, and Emons H. "Developing new reference materials for effective veterinary drug-residue testing in food-producing animals." *Trends in Analytical Chemistry* **2006**, *25*(9):927-936; doi:10.1016/j.trac.2006.04.011.

Zeng DM, Li Y, and Lin QQ. "Pollution monitoring of three rivers passing through Fuzhou City, People's Republic of China." *Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis* **1999**, *426*(2):159-161; doi:10.1016/S0027-5107(99)00061-5.

Zeng F, Cui K, Xie Z, Liu M, Li Y, Lin Y*, et al.* "Occurrence of phthalate esters in water and sediment of urban lakes in a subtropical city, Guangzhou, South China." *Environment International* **2008**, *34*(3):372-380; doi:10.1016/j.envint.2007.09.002.

Zeng Q, Li Y, Gu G, Zhao J, Zhang C, and Luan J. "Sorption and Biodegradation of 17β-Estradiol by Acclimated Aerobic Activated Sludge and Isolation of the Bacterial Strain." *Environmental Engineering Science* **2009**, *26*(4):783-790; doi:10.1089/ees.2008.0116.

Zeng X, Mai B, Sheng G, Luo X, Shao W, An T*, et al.* "Distribution of polycyclic musks in surface sediments from the Pearl River Delta and Macao coastal region, South China." *Environmental Toxicology and Chemistry* **2008**, *27*(1):18-23; doi:10.1897/07-106.1.

Zeng X, Sheng G, Gui H, Chen D, Shao W, and Fu J. "Preliminary study on the occurrence and distribution of polycyclic musks in a wastewater treatment plant in Guandong, China." *Chemosphere* **2007**, *69*(8):1305-1311; doi:10.1016/j.chemosphere.2007.05.029.

Zeng X, Sheng G, Xiong Y, and Fu J. "Determination of polycyclic musks in sewage sludge from Guangdong, China using GC-EI-MS." *Chemosphere* **2005**, *60*(6):817-823; doi:10.1016/j.chemosphere.2005.04.026.

Zeng XM, Martin GP, Tee S-K, and Marriott C. "The role of fine particle lactose on the dispersion and deaggregation of salbutamol sulphate in an air stream in vitro." *International Journal of Pharmaceutics* **1998**, *176*(1):99-110; doi:10.1016/S0378-5173(98)00300-7.

Zenker A, Schmutz H, and Fent K. "Simultaneous trace determination of nine organic UV-absorbing compounds (UV filters) in environmental samples." *Journal of Chromatography A* **2008**, *1202*(1):64-74; doi:10.1016/j.chroma.2008.06.041.

Zenoni G, Pedeferri M, Mazzotti M, and Morbidelli M. "On-line monitoring of enantiomer concentration in chiral simulated moving

bed chromatography." *Journal of Chromatography A* **2000**, *888*(1-2):73-83; doi:10.1016/S0021-9673(00)00486-6.

Zerulla M, Länge R, Steger-Hartmann T, Panter G, Hutchinson T, and Dietrich DR. "Morphological sex reversal upon short-term exposure to endocrine modulators in juvenile fathead minnow (Pimephales promelas)." *Toxicology Letters* **2002**, *131*(1-2):51-63; doi:10.1016/S0378-4274(02)00070-X.

Zerulla M, Länge R, Steger-Hartmann T, Panter G, Hutchinson T, and Dietrich DR. "Morphological Sex Reversal upon Short-term Exposure to Endocrine Modulators in Juvenile Fathead Minnow (Pimephales Promelas)." in *Hot Spot Pollutants: Pharmaceuticals in the Environment*, Dietrich D, Webb S and Petry T, Eds., Elsevier Academic Press; 2004, pp 97-114; http://books.google.com/books?id=VddvDPWBVIYC&printsec=frontcover&dq=%22Brooks%22+%22Aquatic+ecotoxicology+of+fluoxetine%22+&lr=&source=gbs_summary_r&cad=0#PPA165,M1.

Žgajnar GA and Zagorc-Konèan J. "Hazard identification of pharmaceutical wastewaters using biodegradability studies." *Water Science and Technology* **2003**, *47*(10):197-204.

Zha J, Sun L, Zhou Y, Spear PA, Ma M, and Wang Z. "Assessment of 17α-ethinylestradiol effects and underlying mechanisms in a continuous, multigeneration exposure of the Chinese rare minnow (Gobiocypris rarus)." *Toxicology and Applied Pharmacology* **2008**, *226*(3):298-308; doi:10.1016/j.taap.2007.10.006.

Zha J, Wang Z, Wang N, and Ingersoll C. "Histological alternation and vitellogenin induction in adult rare minnow (Gobiocypris rarus) after exposure to ethynylestradiol and nonylphenol." *Chemosphere* **2007**, *66*(3):488-495; doi:10.1016/j.chemosphere.2006.05.071.

Zhang C and Bennett GN. "Biodegradation of xenobiotics by anaerobic bacteria." *Applied Microbiology and Biotechnology* **2005**, *67*(5):600-618; doi:10.1007/s00253-004-1864-3.

Zhang C, Zeng G, Yuan L, Yu J, Li J, Huang G*, et al.* "Aerobic degradation of bisphenol A by Achromobacter xylosoxidans strain B-16 isolated from compost leachate of municipal solid waste." *Chemosphere* **2007**, *68*(1):181-190; doi:10.1016/j.chemosphere.2006.12.012.

Zhang C-y and Johnson LW. "Single Quantum-Dot-Based Aptameric Nanosensor for Cocaine." *Analytical Chemistry* **2009**, *81*(8):3051-3055; doi:10.1021/ac802737b.

Zhang F, Bartels MJ, Brodeur JC, McClymont EL, and Woodburn KB. "Quantitation of 17α-ethinylestradiol in aquatic samples using liquid-liquid phase extraction, dansyl derivatization, and liquid chromatography/positive electrospray tandem mass spectrometry." *Rapid Communications in Mass Spectrometry* **2004**, *18*(22):2739-2742; doi:10.1002/rcm.1690.

Zhang GF, Mortier KA, Storozhenko S, Van De Steene J, Van Der Straeten D, and Lambert WE. "Free and total para-aminobenzoic acid analysis in plants with high-performance liquid chromatography/tandem mass spectrometry." *Rapid Communications in Mass Spectrometry* **2005**, *19*(8):963-969; doi:10.1002/rcm.1878.

Zhang H and Huang C-H. "Adsorption and oxidation of fluoroquinolone antibacterial agents and structurally related amines with goethite." *Chemosphere* **2007**, *66*(8):1502-1512; doi:10.1016/j.chemosphere.2006.08.024.

Zhang H and Huang CH. "Oxidative transformation of triclosan and chlorophene by manganese oxides." *Environmental Science & Technology* **2003**, *37*(11):2421-2430; doi:10.1021/es026190q.

Zhang H and Huang CH. "Reactivity and Transformation of Antibacterial N-Oxides in the Presence of Manganese Oxide." *Environmental Science & Technology* **2005**, *39*(2):593-601.

Zhang H, Kong F-X, Wang S-H, Yu Y, and Zhang M. "Estrogens in freshwater fishes and relevant risk assessment." *Environmental Toxicology* **2009**, *24*(5):484-491.

Zhang H, Ren Y, and Bao X. "Simultaneous determination of (fluoro)quinolones antibacterials residues in bovine milk using ultra performance liquid chromatography-tandem mass spectrometry." *Journal of Pharmaceutical and Biomedical Analysis* **2009**, *49*(2):367-374; doi:10.1016/j.jpba.2008.10.043.

Zhang H, Yamada H, Kim S-E, Kim H-S, and Tsuno H. "Removal of endocrine-disrupting chemicals by ozonation in sewage treatment." *Water Science and Technology* **2006**, *54*(10):123-132; doi:10.2166/wst.2006.881.

Zhang HC and Huang CH. "Oxidative transformation of fluoroquinolone antibacterial agents and structurally related amines by manganese oxide." *Environmental Science & Technology* **2005**, *39*(12):4474-4483; doi:10.1021/es048166d.

Zhang J and Lee HK. "Application of dynamic liquid-phase microextraction and injection port derivatization combined with gas chromatography-mass spectrometry to the determination of acidic pharmaceutically-active compounds in water samples." *Journal of Chromatography A* **2009**, *1216*(44):7527-7532; doi:10.1016/j.chroma.2009.03.051.

Zhang J, Li Z, Ge G, Sun W, Liang Y, and Wu L. "Impacts of soil organic matter, pH and exogenous copper on sorption behavior of norfloxacin in three soils." *Journal of Environmental Sciences* **2009**, *21*(5):632-640; doi:10.1016/S1001-0742(08)62318-9.

Zhang J, Tomanek M, Dong H, Arnold RG, Ela WP, Quanrud DM*, et al.* "Fate of polybrominated diphenyl ethers, nonylphenol, and estrogenic activity during managed infiltration of wastewater effluent." *Journal of Environmental Engineering* **2008**, *134*(6):433-442; doi:10.1061/(ASCE)0733-9372(2008)134:6(433)).

Zhang J-X, Huang W-J, Zeng J-H, Huang W-H, Wang Y, Zhao R*, et al.* "DITOP: drug-induced toxicity related protein database." *Bioinformatics* **2007**, *23*(13):1710-1712; doi:10.1093/bioinformatics/btm139.

Zhang K and Zuo YG. "Pitfalls and solution for simultaneous determination of estrone and 17α-ethinylestradiol by gas chromatography-mass spectrometry after derivatization with N,O-bis(trimethylsilyl)trifluoroacetamide." *Analytica Chimica Acta* **2005**, *554*(1-2):190-196; doi:10.1016/j.aca.2005.08.045.

Zhang N, Rogers K, Gajda K, Kagel JR, and Rossi DT. "Integrated sample collection and handling for drug discovery bioanalysis." *Journal of Pharmaceutical and Biomedical Analysis* **2000**, *23*(2-3):551-560; doi:10.1016/S0731-7085(00)00336-8.

Zhang Q, Crittenden JC, and Mihelcic JR. "Does Simplifying Transport and Exposure Yield Reliable Results? An Analysis of Four Risk Assessment Methods." *Environmental Science & Technology* **2001**, *35*(6):1282-1288; doi:10.1021/es001214j.

Zhang Q and Li X. "Pharmacokinetics and residue elimination of oxytetracycline in grass carp, Ctenopharyngodon idellus." *Aquaculture* **2007**, *272*(1-4):140-145; doi:10.1016/j.aquaculture.2007.08.033.

Zhang Q, Lian M, Liu L, and Cui H. "High-performance liquid chromatographic assay of parabens in wash-off cosmetic products and foods using chemiluminescence detection." *Analytica Chimica Acta* **2005**, *537*(1-2):31-39; doi:10.1016/j.aca.2005.01.027.

Zhang S, Mada S, Torch M, Goyal R, and Venkataramanan R. "Development and validation of a high-performance liquid chromatographic assay for the determination of fluconazole in human whole blood using solid phase extraction." *Therapeutic Drug Monitoring* **2008**, *30*(3):314-319.

Zhang S, Zhang Q, Darisaw S, Ehie O, and Wang G. "Simultaneous quantification of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and pharmaceuticals and personal care products (PPCPs) in Mississippi river water, in New Orleans, Louisiana, USA." *Chemosphere* **2007**, *66*(6):1057-1069; doi:10.1016/j.chemosphere.2006.06.067.

Zhang T, Zhang M, Zhang X, and Fang HH. "Tetracycline Resistance Genes and Tetracycline Resistant Lactose-Fermenting Enterobacteriaceae in Activated Sludge of Sewage Treatment Plants." *Environmental Science & Technology* **2009**, *43*(10):3455-3460; doi:10.1021/es803309m.

Zhang W, Sturm BSM, Knapp CW, and Graham DW. "Accumulation of Tetracycline Resistance Genes in Aquatic Biofilms Due to Periodic Waste Loadings from Swine Lagoons." *Environmental Science & Technology* **2009**, *43*(29):7643-7650; doi:10.1021/es9014508.

Zhang X, Chen PY, Wu F, Deng NS, Liu JT, and Fang T. "Degradation of 17α-ethinylestradiol in aqueous solution by ozonation." *Journal of Hazardous Materials* **2006**, *133*(1-3):291-298; doi:10.1016/j.jhazmat.2005.10.026.

Zhang X, Hecker M, Jones PD, Newsted J, Au D, Kong R*, et al.* "Responses of the Medaka HPG Axis PCR Array and Reproduction to Prochloraz and Ketoconazole." *Environmental Science & Technology* **2008**, *42*(17):6762-6769; doi:10.1021/es800591t.

Zhang X, Hecker M, Park J-W, Tompsett AR, Jones PD, Newsted J*, et al.* "Time-dependent transcriptional profiles of genes of the hypothalamic-pituitary-gonadal axis in medaka (oryzias latipes) exposed to fadrozole and 17β-trenbolone." *Environmental Toxicology and Chemistry* **2008**, *27*(12):2504-2511; doi:10.1897/08-082.1.

Zhang X, Li Q, Li G, Wang Z, and Yan C. "Levels of estrogenic compounds in Xiamen Bay sediment, China." *Marine Pollution Bulletin* **2009**, *58*(8):1210-1216; doi:10.1016/j.marpolbul.2009.03.011.

Zhang X, Martens D, Kramer PM, Kettrup AA, and Liang X. "On-line immunoaffinity column-liquid chromatography-tandem mass spectrometry method for trace analysis of diuron in wastewater treatment plant effluent sample." *Journal of Chromatography A* **2006**,

1133(1-2):112-118; doi:10.1016/j.chroma.2006.08.007.

Zhang X, Wu F, Wu X, Chen P, and Deng N. "Photodegradation of acetaminophen in TiO2 suspended solution." *Journal of Hazardous Materials* **2008**, *157*(2-3):300-307; doi:10.1016/j.jhazmat.2007.12.098.

Zhang X, Yao Y, Zeng X, Qian G, Guo Y, Wu M*, et al.* "Synthetic musks in the aquatic environment and personal care products in Shanghai, China." *Chemosphere* **2008**, *72*(10):1553-1558; doi:10.1016/j.chemosphere.2008.04.039.

Zhang X-X, Jia H-Y, Wu B, Zhao D-Y, Li W-X, and Cheng S-P. "Genetic analysis of protoplast fusant Xhhh constructed for pharmaceutical wastewater treatment." *Bioresource Technology* **2009**, *100*(6):1910-1914; doi:10.1016/j.biortech.2008.10.012.

Zhang Y and Geißen S-U. "In vitro degradation of carbamazepine and diclofenac by crude lignin peroxidase." *Journal of Hazardous Materials* **2009**, *In Press*; doi:10.1016/j.jhazmat.2009.10.133.

Zhang Y, Geißen S-U, and Gal C. "Carbamazepine and diclofenac: Removal in wastewater treatment plants and occurrence in water bodies." *Chemosphere* **2008**, *73*(8):1151-1161; doi:10.1016/j.chemosphere.2008.07.086.

Zhang Y, Marrs CF, Simon C, and Xi C. "Wastewater treatment contributes to selective increase of antibiotic resistance among Acinetobacter spp." *Science of the Total Environment* **2009**, *407*:3702-3706; doi:10.1016/j.scitotenv.2009.02.013.

Zhang Y and Zhou JL. "Occurrence and removal of endocrine disrupting chemicals in wastewater." *Chemosphere* **2008**, *73*(5):848-853; doi:10.1016/j.chemosphere.2008.06.001.

Zhang YP and Zhou JL. "Removal of estrone and 17β-estradiol from water by adsorption." *Water Research* **2005**, *39*(16):3991-4003; doi:10.1016/j.watres.2005.07.019.

Zhang YP, Zhou JL, and Ning B. "Photodegradation of estrone and 17β-estradiol in water." *Water Research* **2007**, *41*(1):19-26; doi:10.1016/j.watres.2006.09.020.

Zhang Z, Grover DP, and Zhou JL. "Monitoring of Pharmaceutical Residues in Sewage Effluents." in *Handbook of water purity and quality*, Ahuja S, Ed., IWA Publishing; 2009, Chapter 14, pp; http://www.iwapublishing.com/template.cfm?name=isbn9781843393184.

Zhang Z, Hibberd A, and Zhou JL. "Analysis of emerging contaminants in sewage effluent and river water: Comparison between spot and passive sampling." *Analytica Chimica Acta* **2008**, *607*(1):37-44; doi:10.1016/j.aca.2007.11.024.

Zhang Z and Hu J. "Effects of p,p'-DDE exposure on gonadal development and gene expression in Japanese medaka (Oryzias latipes)." *Journal of Environmental Sciences (China)* **2008**, *20*(3):347-352; doi:10.1016/S1001-0742(08)60054-6.

Zhang Z, Zhou J, and Yu G. "Development of polar organic pollutant integrated sampler (POPIS) for trace EDCs in water." *Chinese Journal of Geochemistry* **2006**, *25*(Suppl 1):205-205; doi:10.1007/BF02840140.

Zhang ZL, Hibberd A, and Zhou JL. "Optimisation of derivatisation for the analysis of estrogenic compounds in water by solid-phase extraction gas chromatography-mass spectrometry." *Analytica Chimica Acta* **2006**, *577*(1):52-61; doi:10.1016/j.aca.2006.06.029.

Zhang ZL and Zhou JL. "Simultaneous determination of various pharmaceutical compounds in water by solid-phase extraction-liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2007**, *1154*(1-2):205-213; doi:10.1016/j.chroma.2007.03.105.

Zhang ZQ and Jiang YC. "Flow injection flame atomic absorption spectrometry for the indirect analysis of norfloxacin." *Atomic Spectroscopy* **2001**, *22*(6):429-432.

Zhao B, Liu ZT, and Xu ZF. "Assessing the anti-estrogenic activity of sodium pentachlorophenol in primary cultures of juvenile goldfish (Carassius auratus) hepatocytes using vitellogenin as a biomarker." *Journal of Environmental Sciences (China)* **2006**, *18*(3):519-524.

Zhao C, Deng H, Li Y, and Liu Z. "Photodegradation of oxytetracycline in aqueous by 5A and 13X loaded with TiO2 under UV irradiation." *Journal of Hazardous Materials* **2009**, *In Press*; doi:10.1016/j.jhazmat.2009.11.119.

Zhao D, Zhu C, Sun S, Yu H, Zhang L, Pan W*, et al.* "Toxicity of pharmaceutical wastewater on male reproductive system of Mus musculus." *Toxicology and Industrial Health* **2007**, *23*(1):47-54; doi:10.1177/0748233707077446.

Zhao F. "Biodegradation of triclosan by a triclosan-degrading isolate and an ammonia-oxidizing bacterium." Masters Dissertation, Texas A&M Univeresity, Civil Engineering, 2007. 78 pp; http://repository.tamu.edu/handle/1969.1/5966.

Zhao J, Zhang G, Qin Y, and Zhao Y. "Aerobic biodegradation of alkylphenol ethoxylates." *Bioresource Technology* **2006**, *97*(18):2478-2480; doi:10.1016/j.biortech.2005.10.017.

Zhao J-L, Ying G-G, Wang L, Yang J-F, Yang X-B, Yang L-H*, et al.* "Determination of phenolic endocrine disrupting chemicals and acidic pharmaceuticals in surface water of the Pearl Rivers in South China by gas chromatography-negative chemical ionization-mass spectrometry." *Science of the Total Environment* **2009**, *407*(2):962-974; doi:10.1016/j.scitotenv.2008.09.048.

Zhao L and Lin J-M. "Development of a micro-plate magnetic chemiluminescence enzyme immunoassay (MMCLEIA) for rapid- and high-throughput analysis of 17β-estradiol in water samples." *Journal of Biotechnology* **2005**, *118*(2):177-186; doi:10.1016/j.jbiotec.2005.02.023.

Zhao L, Lin J-M, Li Z, and Ying X. "Development of a highly sensitive, second antibody format chemiluminescence enzyme immunoassay for the determination of 17β-estradiol in wastewater." *Analytica Chimica Acta* **2006**, *558*(1-2):290-295; doi:10.1016/j.aca.2005.11.034.

Zhao L, Ma J, and Zhai X. "Enhanced mechanism of catalytic ozonation by ultrasound with orthogonal dual frequencies for the degradation of nitrobenzene in aqueous solution." *Ultrasonics Sonochemistry* **2010**, *17*(1):84-91; doi:10.1016/j.ultsonch.2009.07.001.

Zhao MP, Yang XF, Li YZ, Zhang XX, and Chang WB. "Spectrophotometric determination of aniline in polluted surface water and wastewater - Improved reagents in test kit format International." *International Journal of Environmental Analytical Chemistry* **2001**, *81*(4):323-330; doi:10.1080/03067310108044252.

Zhao RS, Yuan JP, Li HF, Wang X, Jiang T, and Lin JM. "Nonequilibrium hollow-fiber liquid-phase microextraction with in situ derivatization for the measurement of triclosan in aqueous samples by gas chromatography-mass spectrometry." *Analytical and Bioanalytical Chemistry* **2007**, *387*(8):2911-2915; doi:10.1007/s00216-007-1151-0.

Zhao X and Metcalfe CD. "Characterizing and Compensating for Matrix Effects Using Atmospheric Pressure Chemical Ionization Liquid Chromatography-Tandem Mass Spectrometry: Analysis of Neutral Pharmaceuticals in Municipal Wastewater." *Analytical Chemistry* **2008**, *80*(6):2010-2017; doi:10.1021/ac701633m.

Zhao X and Schwack W. "Photochemical behavior of musk ambrette." *Chemosphere* **1999**, *39*(1):11-21; doi:10.1016/S0045-6535(98)00584-0.

Zhao XM and Schwack W. "Photodegradation of musk xylene." *International Journal of Environmental Analytical Chemistry* **1999**, *74*(1-4):179-189; doi:10.1080/03067319908031424.

Zhao Y, Hu J, and Jin W. "Transformation of Oxidation Products and Reduction of Estrogenic Activity of 17β-Estradiol by a Heterogeneous Photo-Fenton Reaction." *Environmental Science & Technology* **2008**, *42*(14):5277-5284; doi:10.1021/es703253q.

Zhao YY, Boyd J, Hrudey SE, and Li XF. "Characterization of new nitrosamines in drinking water using liquid chromatography tandem mass spectrometry." *Environmental Science & Technology* **2006**, *40*(24):7636-7641; doi:10.1021/es061332s.

Zhao Z, Knowlton KF, and Love NG. "Hormones in Waste from Concentrated Animal Feeding Operations." in *Fate of Pharmaceuticals in the Environment and in Water Treatment Systems*, Aga DS, Ed., CRC Press; Boca Raton, FL, 2007, Chapter 13, pp 291-330; http://books.google.com/books?hl=en&id=9KJYr4xOADMC&dq=Fate+of+Pharmaceuticals+in+the+Environment+and+in+Water+Treatment+Systems&printsec=frontcover&source=web&ots=jhHYjHZ2r9&sig=Z6yDQb-CIK8cq36urkT8cGAJT_Q&sa=X&oi=book_result&resnum=1&ct=result#PPR8,M1.

Zhen H, Wu X, Hu J, Xiao Y, Yang M, Hirotsuji J*, et al.* "Identification of Retinoic Acid Receptor Agonists in Sewage Treatment Plants." *Environmental Science & Technology* **2009**, *43*(17):6611-6616; doi:10.1021/es9000328.

Zheng W, Yates SR, and Bradford SA. "Analysis of Steroid Hormones in a Typical Dairy Waste Disposal System." *Environmental Science & Technology* **2008**, *42*(2):530-535.

Zhitao L, Huayi Z, Bing S, and Rong Z. "Electron-irradiation-induced decomposition of sulfonamides." *Nuclear Instruments & Methods Physics Res Sec B - Beam Interactions with Mat Atoms* **2006**, *252*(2):285-289.

Zhongbo Z and Hu J. "Selective removal of estrogenic compounds by molecular imprinted polymer (MIP)." *Water Research* **2008**,

42(15):4101-4108; doi:10.1016/j.watres.2008.07.006.

Zhou H, Huang X, Gao M, Wang X, and Wen X. "Distribution and elimination of polycyclic musks in three sewage treatment plants of Beijing, China." *Journal of Environmental Sciences* **2009**, *21*(5):561-567; doi:10.1016/S1001-0742(08)62308-6.

Zhou JL, Liu R, Wilding A, and Hibberd A. "Sorption of selected endocrine disrupting chemicals to different aquatic colloids." *Environmental Science & Technology* **2007**, *41*(1):206-213; doi:10.1021/es0619298.

Zhou JL and Zhang Z. "Pharmaceutical compounds in estuarine and coastal waters." in *Practical Guidelines for the Analysis of Seawater*, Wurl O, Ed., CRC Press; Boca Raton, FL, 2009, Chapter 16, pp 351-368; http://books.google.com/books?hl=en&lr=&id=XqRQh58gb_IC&oi=fnd&pg=PT362&dq=sewage+daughton+pharmaceutical+OR+drug+OR+ppcps+OR+phacs+-elsevier&ots=wguhGrtlPw&sig=sZmgUNBMC5p4y2UPBm-GpGxeDY4#v=onepage&q=&f=false.

Zhou JL, Zhang ZL, Banks E, Grover D, and Jiang JQ. "Pharmaceutical residues in wastewater treatment works effluents and their impact on receiving river water." *Journal of Hazardous Materials* **2009**, *166*(2-3):655-661; doi:10.1016/j.jhazmat.2008.11.070.

Zhou P, Su CY, Li BW, and Yi Q. "Treatment of high-strength pharmaceutical wastewater and removal of antibiotics in anaerobic and aerobic biological treatment processes." *Journal of Environmental Engineering* **2006**, *132*(1):129-136; doi:10.1061/(ASCE)0733-9372.

Zhou SN, Oakes KD, Servos MR, and Pawliszyn J. "Application of Solid-Phase Microextraction for In Vivo Laboratory and Field Sampling of Pharmaceuticals in Fish." *Environmental Science & Technology* **2008**, *42*(16):6073-6079; doi:10.1021/es8001162.

Zhu A, Zhu W, Wu Z, and Jing Y. "Recovery of clindamycin from fermentation wastewater with nanofiltration membranes." *Water Research* **2003**, *37*(15):3718-3732; doi:10.1016/S0043-1354(03)00250-1.

Zhu J, Snow DD, Cassada DA, Monson SJ, and Spalding RF. "Analysis of oxytetracycline, tetracycline, and chlortetracycline in water using solid-phase extraction and liquid chromatography-tandem mass spectrometry." *Journal of Chromatography A* **2001**, *928*(2):177-186; doi:10.1016/S0021-9673(01)01139-6.

Zhu P, Tong W, Alton K, and Chowdhury S. "An Accurate-Mass-Based Spectral-Averaging Isotope-Pattern-Filtering Algorithm for Extraction of Drug Metabolites Possessing a Distinct Isotope Pattern from LC-MS Data." *Analytical Chemistry* **2009**, *81*(14):5910-5917; doi:10.1021/ac900626d.

Zhu Y and Balke K-D. "Groundwater protection: What can we learn from Germany?" *J Zhejiang Univ - Sci B* **2008**, *9*(3):227-231; doi:10.1631/jzus.B0710639.

Zhu Y, Chiang H, Wulster-Radcliffe M, Hilt R, Wong P, Kissinger CB*, et al.* "Liquid chromatography/tandem mass spectrometry for the determination of carbamazepine and its main metabolite in rat plasma utilizing an automated blood sampling system." *Journal of Pharmaceutical and Biomedical Analysis* **2005**, *38*(1):119-125; doi:10.1016/j.jpba.2004.11.058.

Zielezny Y. "Analysis of veterinary pharmaceuticals in soil and their impact on microbial populations." Doctoral Dissertation, Rheinischen Friedrich-Wilhelms-Universität, Bonn, Germany, 2008. 155 pp; http://hss.ulb.uni-bonn.de/diss_online/math_nat_fak/2008/zielezny_yvonne/1420.pdf.

Zielezny Y, Groeneweg J, Vereecken H, and Tappe W. "Impact of sulfadiazine and chlorotetracycline on soil bacterial community structure and respiratory activity." *Soil Biology and Biochemistry* **2006**, *38*(8):2372-2380; doi:10.1016/j.soilbio.2006.01.031.

Zilles J, Shimada T, Jindal A, Robert M, and Raskin L. "Presence of macrolide-lincosamide-streptogramin B and tetracycline antimicrobials in swine waste treatment processes and amended soil." *Water Environment Research* **2005**, *77*(1):57-62; doi:10.2175/106143005X41627.

Zillioux EJ, Johnson IC, Kiparissis Y, Metcalfe CD, Wheat JV, Ward SG*, et al.* "The sheepshead minnow as an in vivo model for endocrine disruption in marine teleosts: A partial life-cycle test with 17α-ethynylestradiol." *Environmental Toxicology and Chemistry* **2001**, *20*(9):1968-1978; doi:10.1897/1551-5028(2001)020<1968:TSMAAI>2.0.CO;2.

Zimmerman G. "Confluence -- Is Moore's Law at Work in the Water Industry?" *American Water Works Association* **2008**, *100*(11):6.

Zimmerman MJ. "Occurrence of Organic Wastewater Contaminants, Pharmaceuticals, and Personal Care Products in Selected Water Supplies, Cape Cod, Massachusetts June 2004." US Geological Survey, Cape Cod, MA, 2005, 16 pp; http://pubs.usgs.gov/of/2005/1206/pdf/ofr2005_1206.pdf.

Zlateva S, Marinov P, and Sabeva Y. "Determination of Toxic Substances in Sweat Secret of Severe Forms of Poisoning - Toxic Coma. Clinical Meaning." *International Medical Association Bulgaria - IMAB (Journal of IMAB)* **2007**, *Book 1, part Medicine*:83-85.

Zorita S, Barri T, and Mathiasson L. "A novel hollow-fibre microporous membrane liquid-liquid extraction for determination of free 4-isobutylacetophenone concentration at ultra trace level in environmental aqueous samples." *Journal of Chromatography A* **2007**, *1157*(1-2):30-37; doi:10.1016/j.chroma.2007.05.039.

Zorita S, Boyd B, Svensson C, Mathiasson L, and Bergström S. "Selective determination of acidic pharmaceuticals in wastewater using molecularly imprinted solid-phase extraction." *Analytica Chimica Acta* **2008**, *626*(2):147-154; doi:10.1016/j.aca.2008.07.051.

Zorita S, Hallgren P, and Mathiasson L. "Steroid hormone determination in water using an environmentally friendly membrane based extraction technique." *Journal of Chromatography A* **2008**, *1192*(1):1-8; doi:10.1016/j.chroma.2008.03.030.

Zorita S, Larsson L, and Mathiasson L. "Comparison of solid-phase sorbents for the determination of fluoroquinolone antibiotics in wastewater." *Journal of Separation Science* **2008**, *31*(16-17):3117-3121; doi:10.1002/jssc.200800301.

Zorita S, Martensson L, and Mathiasson L. "Hollow-fibre supported liquid membrane extraction for determination of fluoxetine and norfluoxetine concentration at ultra trace level in sewage samples." *Journal of Separation Science* **2007**, *30*(15):2513-2521; doi:10.1002/jssc.200700165.

Zorita S, Mårtensson L, and Mathiasson L. "Occurrence and removal of pharmaceuticals in a municipal sewage treatment system in the south of Sweden." *Science of the Total Environment* **2009**, *407*(8):2760-2770; doi:10.1016/j.scitotenv.2008.12.030.

Zounkova R, Odraska P, Dolezalova L, Hilscherova K, Marsalek B, and Blaha L. "Ecotoxicity and genotoxicity assessment of cytostatic pharmaceuticals." *Environmental Toxicology and Chemistry* **2007**, *26*(10):2208-2214; doi:10.1897/07-137.

Zuccato E, Calamari D, Natangelo M, and Fanelli R. "Presence of therapeutic drugs in the environment." *The Lancet* **2000**, *355*(9217):1789-1790; doi:10.1016/S0140-6736(00)02270-4.

Zuccato E and Castiglioni S. "Illicit drugs in the environment." *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences* **2009**, *367*(1904):3965-3978; doi:10.1098/rsta.2009.0107.

Zuccato E, Castiglioni S, Bagnati R, Chiabrando C, Grassi P, and Fanelli R. "Illicit drugs, a novel group of environmental contaminants." *Water Research* **2008**, *42*(4-5):961-968; doi:10.1016/j.watres.2007.09.010.

Zuccato E, Castiglioni S, Bagnati R, and Fanelli R. "I farmaci: inquinanti ambientali ubiquitari [Drugs: omnipresent pollutants in the environment]." *Quaderni acp* **2007**, *14*(5):203-206.

Zuccato E, Castiglioni S, and Fanelli R. "Identification of the pharmaceuticals for human use contaminating the Italian aquatic environment." *Journal of Hazardous Materials* **2005**, *122*(3):205-209; doi:10.1016/j.jhazmat.2005.03.001.

Zuccato E, Castiglioni S, Fanelli R, and Bagnati R. "L'inquinamento ambientale da farmaci: la regolamentazione e gli interventi (parte II) [Environmental contamination by pharmaceuticals: the rules and the interventions]." *R & P* **2007**, *23*:113-118.

Zuccato E, Castiglioni S, Fanelli R, Bagnati R, Reitano G, and Calamari D. "Risks related to the discharge of pharmaceuticals in the environment: Further research is needed." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 31, pp 431-438; http://books.google.com/books?id=A3GQsHZCmdsC&pg=RA1-PA431&lpg=RA1-PA431&dq=Risks+related+to+the+discharge+of+pharmaceuticals+in+the+environment&source=web&ots=Irnbl8KSPx&sig=gbPNATXnePOPkbyFL03YBdL91-M&hl=en&sa=X&oi=book_result&resnum=1&ct=result.

Zuccato E, Castiglioni S, Fanelli R, Reitano G, Bagnati R, Chiabrando C*, et al.* "Pharmaceuticals in the environment in Italy: Causes, occurrence, effects and control." *Environmental Science and Pollution Research* **2006**, *13*(1):15-21; doi:10.1065/espr2006.01.004.

Zuccato E, Chiabrando C, Castiglioni S, Bagnati R, and Fanelli R. "Estimating Community Drug Abuse by Wastewater Analysis." *Environmental Health Perspectives* **2008**, *116*(8):1027-1032; doi:10.1289/ehp.11022.

Zuccato E, Chiabrando C, Castiglioni S, Bagnati R, and Fanelli R. "Estimating community drug use." in *Assessing illicit drugs in wastewater: Potential and limitations of a new monitoring approach*, European Monitoring Centre for Drugs and Drug Addiction (EMCDDA); Lisbon, Portugal, 2008, Chapter 2, pp 10-34; http://www.emcdda.europa.eu/attachements.cfm/att_65636_EN_EMCDDA-insights9-wastewater.pdf.

Zuccato E, Chiabrando C, Castiglioni S, Calamari D, Bagnati R, Schiarea S*, et al.* "Cocaina nelle acque di superficie: Un nuovo strumento evidence-based per monitorare l'abuso comunitario di sostanze [Cocaine in surface waters: New evidence-based tool to monitor community drug abuse] " *Environmental Health Journal: A Global Access Science Source* **2005**, *4*(14):103-112; doi:10.1186/1476-069X-4-14.

Zuehlke S, Duennbier U, and Heberer T. "Determination of Polar Drug Residues in Sewage and Surface Water Applying Liquid Chromatography-Tandem Mass Spectrometry." *Analytical Chemistry* **2004**, *76*(22):6548-6554; doi:10.1021/ac049324m.

Zuehlke S, Duennbier U, and Heberer T. "Determination of estrogenic steroids in surface water and wastewater by liquid chromatography-electrospray tandem mass spectrometry." *Journal of Separation Science* **2005**, *28*(1):52-58; doi:10.1002/jssc.200301727.

Zuehlke S, Duennbier U, and Heberer T. "Investigation of the behavior and metabolism of pharmaceutical residues during purification of contaminated ground water used for drinking water supply." *Chemosphere* **2007**, *69*(11):1673-1680; doi:10.1016/j.chemosphere.2007.06.020.

Zuehlke S, Duennbier U, Heberer T, and Fritz B. "Analysis of endocrine disrupting steroids: Investigation of their release into the environment and their behavior during bank filtration." *Ground Water Monitoring & Remediation* **2004**, *24*(2):78-85; doi:10.1111/j.1745-6592.2004.tb00715.x.

Zuehlke S, Duennbier U, Lesjean B, Gnirss R, and Buisson H. "Long-term comparison of trace organics removal performances between conventional and membrane activated sludge processes." *Water Environment Research* **2006**, *78*(13):2480-2486; doi:10.2175/106143006X111826.

Zühlke S. "Verhalten von Phenazonderivaten, Carbamazepin und estrogenen Steroiden während verschiedener Verfahren der Wasseraufbereitung." Doctoral Dissertation, Universität Berlin, Von der Fakultat III - Prozesswissenschaften der Technischen, Berlin, Germany, 2004. 295 pp; http://opus.kobv.de/tuberlin/volltexte/2004/819/pdf/zuehlke_sebastian.pdf.

Zuhlke S, Dunnbier U, and Heberer T. "Detection and identification of phenazone-type drugs and their microbial metabolites in ground and drinking water applying solid-phase extraction and gas chromatography with mass spectrometric detection." *Journal of Chromatography A* **2004**, *1050*(2):201-209; doi:10.1016/j.chroma.2004.08.051.

Zukowska B, Breivik K, and Wania F. "Evaluating the environmental fate of pharmaceuticals using a level III model based on poly-parameter linear free energy relationships." *Science of the Total Environment* **2006**, *359*(1-3):177-187; doi:10.1016/j.scitotenv.2005.05.033.

ZumBrunnen TL, Meuwsen I, Michiel de V, and Brennan JJ. "The Effect of Washing and the Absence of Interindividual Transfer of Estradiol Gel: A Direct Skin-to-Skin Contact Study in Postmenopausal Women." *American Journal of Drug Delivery* **2006**, *4*:89-95.

Zumwalt M, Weil D, and Meng C-K. "The Use of Accurate Mass, Isotope Ratios and MS/MS for the Identification of PPCPs in Water." **2008**, http://www.chem.agilent.com/Library/posters/Public/Accurate%20Mass%20Isotope%20Ratios.pdf.

Zumwalt MC. "The Use of Accurate Mass, Isotope Ratios, and MS/MS for the Analysis of PPCPs in Water." in *Liquid Chromatography Time-of-Flight Mass Spectrometry: Principles, tools, and applications for accurate mass analysis*, Winefordner JD, Ed., John Wiley & Sons, Inc.; Hoboken, NJ, 2009, Chapter 6, pp 89-102; doi:10.1002/9780470429969.ch6; http://www3.interscience.wiley.com/cgi-bin/bookhome/120756170?CRETRY=1&SRETRY=0, http://www.researchandmarkets.com/reportinfo.asp?report_id=888664&t=t&cat_id=.

Zuo Y and Zhang K. "Suitability of N,O-bis(trimethylsilyl)trifluoroacetamide as derivatization reagent for the determination of the estrogens estrone and 17α-ethinylestradiol by gas chromatography-mass spectrometry." *Journal of Chromatography A* **2005**, *1095*(1-2):201-202; doi:10.1016/j.chroma.2005.08.096.

Zuo Y, Zhang K, and Lin Y. "Microwave-accelerated derivatization for the simultaneous gas chromatographic-mass spectrometric analysis of natural and synthetic estrogenic steroids." *Journal of Chromatography A* **2007**, *1148*(2):211-218; doi:10.1016/j.chroma.2007.03.037.

Zuo Y, Zhang K, Wu J, Rego C, and Fritz J. "An accurate and nondestructive GC method for determination of cocaine on US paper currency." *Journal of Separation Science* **2008**, *31*(13):2444-2450; doi:10.1002/jssc.200800117.

Zuo YG, Zhang K, and Deng YW. "Occurrence and photochemical degradation of 17α-ethinylestradiol in Acushnet River Estuary." *Chemosphere* **2006**, *63*(9):1583-1590; doi:10.1016/j.chemosphere.2005.08.063.

Zurhelle G, Müller-Seitz E, and Petz M. "Automated residue analysis of tetracyclines and their metabolites in whole egg, egg white, egg yolk and hen's plasma utilizing a modified ASTED system." *Journal of Chromatography B: Biomedical Sciences and Applications* **2000**, *739*(1):191-203; doi:10.1016/S0378-4347(99)00477-6.

Zurhelle G, Petz M, Mueller-Seitz E, and Siewert E. "Metabolites of oxytetracycline, tetracycline, and chlortetracycline and their distribution in egg white, egg yolk, and hen plasma." *Journal of Agricultural and Food Chemistry* **2000**, *48*(12):6392-6396.

Zurita JL, Jos Á, del Peso A, Salguero M, López-Artíguez M, and Repetto G. "Ecotoxicological effects of the antioxidant additive propyl gallate in five aquatic systems." *Water Research* **2007**, *41*(12):2599-2611; doi:10.1016/j.watres.2007.02.003.

Zurita JL, Jos A, Peso Ad, Salguero M, Lopez-Artiguez M, and Repetto G. "Ecotoxicological evaluation of the antimalarial drug chloroquine." *Aquatic Toxicology* **2005**, *75*(2):97-107; doi:10.1016/j.aquatox.2005.07.009.

Zurita JL, Repetto G, Jos A, Salguero M, Lopez-Artiguez M, and Camean AM. "Toxicological effects of the lipid regulator gemfibrozil in four aquatic systems." *Aquatic Toxicology* **2007**, *81*(1):106-115; doi:10.1016/j.aquatox.2006.11.007.

Zweygarth M and Summers RS. "A national database for essential drugs in South Africa." *Pharmacy World and Science* **2000**, *22*(3):116-117; doi:10.1023/A:1008734616460.

Zwiener C. "Occurrence and analysis of pharmaceuticals and their transformation products in drinking water treatment." *Analytical and Bioanalytical Chemistry* **2007**, *387*(4):1159-1162; doi:10.1007/s00216-006-0818-2.

Zwiener C and Frimmel FH. "Oxidative treatment of pharmaceuticals in water." *Water Research* **2000**, *34*(6):1881-1885; doi:10.1016/S0043-1354(99)00338-3.

Zwiener C and Frimmel FH. "Short-term tests with a pilot sewage plant and biofilm reactors for the biological degradation of the pharmaceutical compounds clofibric acid, ibuprofen, and diclofenac." *Science of the Total Environment* **2003**, *309*(1-3):201-211; doi:10.1016/S0048-9697(03)00002-0.

Zwiener C and Frimmel FH. "LC-MS analysis in the aquatic environment and in water treatment technology - a critical review. Part II: Applications for emerging contaminants and related pollutants, microorganisms and humic acids." *Analytical and Bioanalytical Chemistry* **2004**, *378*(4):862-874; doi:10.1007/s00216-003-2412-1.

Zwiener C and Frimmel FH. "Residues of clofibric acid, ibuprofen and diclofenac in the aquatic environment and their elimination in sewage treatment and drinking water production." in *Pharmaceuticals in the environment - Sources, fate, effects and risks*, 2nd ed.; Kümmerer K, Ed., Springer; Berlin, Germany, 2004, Chapter 9, pp 121-132.

Zwiener C, Glauner T, and Frimmel FH. "Biodegradation of pharmaceutical residues investigated by SPE-GC/ITD-MS and on-line derivatization." *Journal of High Resolution Chromatography* **2000**, *23*(7-8):474-478; doi:10.1002/1521-4168(20000801)23:7/8.

Zwiener C, Richardson SD, De Marini DM, Grummet T, and Frimmel FH. "Drowning in Disinfection Byproducts? Assessing Swimming Pool Water." *Environmental Science & Technology* **2007**, *41*(2):363-372; doi:10.1021/es062367v.

Zwiener C, Richardson SD, DeMarini DM, Grummt T, Glauner T, and Frimmel FH. "Drowning in Disinfection Byproducts? Assessing Swimming Pool Water." *Environmental Science & Technology* **2008**, *42*(5):1812; doi:10.1021/es702871c.

Zwiener C, Seeger S, Glauner T, and Frimmel FH. "Metabolites from the biodegradation of pharmaceutical residues of ibuprofen in biofilm reactors and batch experiments." *Analytical and Bioanalytical Chemistry* **2002**, *372*(4):569-575; doi:10.1007/s00216-001-1210-x.