

Bibliography

Marcellus Shale Drilling and the Effects on Aquatic Life

- Aas, E. (2000). Biomarkers for polyaromatic hydrocarbon exposure in fish. *PhD thesis: University of Bergen*.
- Aas, E., Beyer, J., Jonsson, G., Reichert, W. L., & Andersen, O. K. (2001). Evidence of uptake, biotransformation and DNA binding of polyaromatic hydrocarbons in Atlantic cod and corkwing wrasse caught in the vicinity of an aluminium works. *Marine Environmental Research* 52, 213–229.
- Aas, E., Jonsson, G., Sundt, R. G., Westerlund, S., & Sanni, S. In press. PAH metabolites and metals in bile from caged Atlantic cod (*Gadus morhua*) and feral fish in the North Sea used in environmental monitoring. *In Biological effects of contaminants in pelagic ecosystems*, eds. K. Hylland, A. D. Vethaak, and T. Lang: SETAC Special Publication.
- Akaishi, F., Silva de Assis, H., Jakobi, S., Eiras-Stofella, D., St-Jean, S., Courtenay, S., Lima, E., Wagener, A., Scofield, A., & Oliveira Ribeiro, C. (2004). Morphological and Neurotoxicological Findings in Tropical Freshwater Fish (*Astyanax* sp.) After Waterborne and Acute Exposure to Water Soluble Fraction (WSF) of Crude Oil. *Archives of Environmental Contamination Toxicology* 46, 244–253.
- Alkindi, A.Y.A., Brown, J.A., Waring, C.P. & Collins, J.E. (1996). Endocrine, osmoregulatory, respiratory and haematological parameters in flounder exposed to the water soluble fraction of crude oil.
- Allen, E. (2008). Process water treatment in Canada's oil sands industry: I. Target pollutants and treatment objectives. *Journal of Environmental Engineering Science* 7, 123–138.
- Antia, N. J., & Cheng, J.Y. (1975). Culture studies on the effects from borate pollution on the growth of marine phytoplankters. *Journal of the Fisheries Research Board of Canada* 32, 2487-2494.
- ARCO. (1990). Biodegradation and toxicity of glycols. *Technical Report. Newton Square, PA*
- ATSDR(Agency for Toxic Substances and Disease Registry). (1993). Draft Technical Report for Ethylene Glycol & Propylene Glycol. Prepared for U.S. Department of Health and Human Services, Public Health Service, Agency for Toxic Substances and Disease Registry.
- Baatrup, E., Junge, M. (2001). Antiandrogenic pesticides disrupt sexual characteristics in the adult male guppy (*Poecilia reticulata*). *Environmental Health Perspectives* 109, 1063–1070.
- Babcock, M.M. (1985). Morphology of olfactory epithelium of pink salmon, *Oncorhynchus gorbusha*, and changes following exposure to benzene: a scanning electron microscopy study. In: Gray JS, Christiansen ME (eds), *Marine biology of polar regions and effects of stress on marine organisms*. John Wiley & Sons, New York, pp 259–267
- Bass, E. L. (2003). Effects of ethylene and propylene glycol on development and hatching success in the medaka, *oryzias latipes*. *Bulletin of Environmental Contamination and Toxicology* 70(3), 600-605. doi:10.1007/s00128-003-0027-z

- Bayley, M., Junge, M. & Baatrup, E. (2002). Exposure of juvenile guppies to three anti androgens causes demasculinization and a reduced sperm count in adult males. *Aquatic Toxicology* 56 227–239.
- Beak Consultants. (1995a). Chemical substance testing final study report: ecotoxicological evaluation of ethylene glycol. *Report prepared by Beak Consultants Ltd., Brampton, Ontario for Miller Thomson, Barristers & Solicitors, Toronto, Ontario.*
- Belpaire, CGJ., Goemans, G., Geeraerts, C., Quataert, P., Parmentier, K., Hagel, P. & De Boer, J. (2009). Decreasing eel stocks: survival of the fattest? *Ecology of Freshwater Fish* 18, 197–214.
- Birge, W.J., Black, J.A., (1977). Sensitivity of vertebrate embryos to boron compounds. EPA 560/1-76-008. *US Environmental Protection Agency, Washington, DC*
- Birtwell, I.K., Fink, R., Brand, D., Alexander, R. & Mcallister, C.D. (1999). Survival of pink salmon (*Oncorhynchus gorbuscha*) fry to adulthood following a 10-day exposure to the aromatic hydrocarbon water-soluble fraction of crude oil and release to the Pacific Ocean. *Canadian Journal of Fisheries and Aquatic Sciences* 56, 2087–2098.
- Black, J.A., Barnum, J.B. & Birge, W.J. (1993). An integrated assessment of the biological effects of boron to the rainbow trout. *Chemosphere* 26, 1383–1413. doi:10.1016/0045-6535(93)90189-C
- Boillot, C., & Perrodin, Y. (2008). Joint-action ecotoxicity of binary mixtures of glutaraldehyde and surfactants used in hospitals: Use of the toxicity index model and isoblogram representation. *Ecotoxicology and Environmental Safety*, 71(1), 252-259. doi:10.1016/j.ecoenv.2007.08.010
- Budavari, S., O'Neil, M.J., Smith, A. & Heckelman, P.E. (1989). *The Merck Index: An Encyclopaedia of Chemicals, Drugs, and Biologicals; Merck and Co., Inc.: Rahway, NJ.*
- Bueno-Guimaraes, H.M., Ferreira, C.M., Garcia, M.L., & Saldiva, P.H. (2001). Tadpole epithelium test: Potential use of rana catesbeiana histopathologic epithelial changes to evaluate aquatic pollution. *Bulletin of Environmental Contamination and Toxicology*, 67(2), 202-209.
- Burridge, T.R., Lavery, T. & Lam, P.K.S. (1995). Effects of tributyltin and formaldehyde on the germination and growth of *Phyllospora comosa* (Labillardiere) C. Agardh (Phaeophyta: Fucales). *Bulletin of Environmental Contamination and Toxicology* 55, 525–532.
- Butterwick, L., De Oude, N. & Raymond, K. (1989). Safety assessment of boron in aquatic and terrestrial environments. *Ecotoxicology and Environmental Safety* 17, 339–371. doi:10.1016/0147-6513(89) 90055-9
- Canadian Council of Ministers of the Environment. (1999). Canadian water quality guidelines for the protection of aquatic life: summary table. In: *Canadian environmental quality guidelines*. Winnipeg.
- Carls, M.G., Rice, S.D. & Hose, J.E. (1999). Sensitivity of fish embryos to weathered crude oil: Part 1. Low-level exposure during incubation causes malformations, genetic damage, and mortality in larval pacific herring (*Clupea pallasii*). *Environmental Toxicology and Chemistry* 18, 481–493.
- CCR. (1990). Influence of Piror 850 on the reproduction of *Daphnia magna*. *Cytotest Cell*

- Research GmbH & Co., Project 164002, Rossdorf, Germany.*
- Chiayvareesajja, S. & Boyd, C.E. (1993). Effects of zeolite, formalin, bacterial augmentation, and aeration on total ammonia nitrogen concentration. *Aquaculture* 116, 33–45
- Christoffersen, K., Hansen, B.W., Johansson, L.S. & Krog, E. (2003). Influence of LAS on marine calanoid copepod population dynamics and potential reproduction. *Aquatic Toxicology* 63, 405–416.
- Colavecchia, M.V., Backus, S.M., Hodson, P.V., & Parrott, J.L. (2004). Toxicity of oil sands to early life stages of fathead minnows (*Pimephales promelas*). *Environmental Toxicology and Chemistry* 23, 1709–1718. doi:10.1897/03-412. PMID:15230323.
- Collier, T.K., Stein, J.E., Sanborn, H.R., Hom, T., Myers, M.S., & Varanasi, U. (1992a). Field studies of reproductive success and bioindicators of maternal contaminant exposure in English sole (*Parophrys vetulus*). *Science of the Total Environment* 116, 169–185.
- Collier, T.K., Anulacion, B.F., Stein, J.E., Goksoyr, A., & Varanasi, U. (1995). A field evaluation of cytochrome P4501A as a biomarker of contaminant exposure in three species of flatfish. *Environmental Toxicology and Chemistry* 14, 143–152.
- Collier, T.K., Johnson, L.L., Stehr, C.M., Myers, M.S., & Stein, J.E. (1998). A comprehensive assessment of the impacts of contaminants on fish from an urban waterway. *Marine Environmental Research* 46, 243–247.
- Connell, D.W. & Miller, G.J. (1981a). Petroleum hydrocarbons in aquatic ecosystems behaviour and effects of sublethal concentrations part-1. *Critical Reviews in Environmental Control* 11, 37-104.
- Connell, D.W. & Miller, G.J. (1981b). Petroleum hydrocarbons in aquatic ecosystems behaviour and effects of sublethal concentrations part-2. *Critical Reviews in Environmental Control* 11, 105-162.
- Dethloff, G., Stubblefield, W. & Schlekat, C. (2009). Effects of Water Quality Parameters on Boron Toxicity to *Ceriodaphnia dubia*. *Archives of Environmental Contamination and Toxicology* 57, 60–67.
- Diz, F.R., Araújo, C.V.M., Moreno-Garrido, I., Hampel, M. & Julián, B. (2009). Short-term toxicity tests on the harpacticoid copepod *Tisbe battagliai*: Lethal and reproductive endpoints. *Ecotoxicology and Environmental Safety* doi:10.1016/j.ecoenv.2009.03.004
- Dizdaroglu, M., Jaruga, P., Birincioglu, M., & Rodriguez, H. (2002). Free radical-induced damage to DNA: Mechanisms and measurement. *Free Radical Biology and Medicine* 32, 1102–1115.
- Edwards, J. (1996). Biocides-Bugkillers That Enhance Pulp Making and Paper Making Processes. *Tappi Journal* 79 (7), 71-77.
- Eggens, M.L., Vethaak, A.D., Leaver, M.J., Horback, G.J.M.J., Boon, J.P. & Seinen, W. (1996). Differences in CYP1A response between flounder (*Platichthys flesus*) and plaice (*Pleuronectes platessa*) after long-term exposure to harbour dredged spoil in a mesocosm study. *Chemosphere* 32, 1357–1380.
- Eisler, R. (1990). Boron hazards to fish, wildlife, and invertebrates: a synoptic review. *United States Fish and Wildlife Service Biology Report* 85, 1-20.
- Engelhardt, F.R., Wong, M.P. & Duey, M.E. (1981). Hydromineral balance and gill

- morphology in rainbow trout *Salmo gairdneri*, acclimated to fresh and sea water as affected by petroleum exposure. *Aquatic Toxicology* 1, 175–186.
- ENVIRO TIPS (Technical Information for Problem Spills). (1985). Ethylene glycol. Environmental Protection Service, Environment Canada, Ottawa. Supply and Services Canada. Cat. No. En 48-10r47-1985E.
- Environmental Protection Agency (EPA). (1975). Preliminary investigation of effects on the environment of boron, indium, nickel, selenium, tin, vanadium and their compounds. Vol. 1. Boron. U.S. Environ. Prot. Agency Rep. 56/2-75-005A. 111 pp.
- Evans, W.H. & David, E.J. (1974). *Water Research* 8, 97-100.
- Feist, G.W., Webb, M.A., Gundersen, D.T., Foster, E.P., Schreck, C.B. & Maule, A.G. (2005). Evidence of detrimental effects of environmental contaminants on growth and reproductive physiology of white sturgeon in impounded areas of the columbia river. *Environmental Health Perspectives* 113(12), 1675-1682.
- Fabiani, C. & Yessayan, R. (2005). The role of sediments in the assessment of ecological quality of European river bodies. *Annali dell'Istituto Superiore di Sanità* 41(3), 317-325.
- Fernandez, E., Sanchez, E., Bonilla, P., Mateo, & Ortega, P., (1984). Effect of boron on the growth and cell composition of *Chorella pyrenoidosa*. *Phyton* 44, 125-131.
- Foster, E.P., Fitzpatrick, M.S., Feist, G.W., Schreck, C.B., Yates, J. & Spitsbergen, J.M. (2001b). Plasma androgen correlation, EROD induction, reduced condition factor, and the occurrence of organochlorine pollutants in reproductively immature white sturgeon (*Acipenser transmontanus*) from the Columbia River, USA. *Archives of Environmental Contamination and Toxicology* 41, 182–191.
- Frick, H. (1985). Boron tolerance and accumulation in the duckweed, *Lemna minor*. *Journal of Plant Nutrition* 8, 1123-1129.
- Gersich, F.M. (1984). Evaluation of a static renewal chronic toxicity test method for *Daphnia magna* Straus using boric acid. *Environmental Toxicology and Chemistry* 3, 89–94. doi:10.1897/1552-8618(1984)3[89:EOASRC]2.0.CO;2
- Gersich, F.M. (1984). Evaluation of a static renewal chronic toxicity test method for *Daphnia magna* Straus using boric acid. *Environmental Toxicology and Chemistry* 3, 89-94.
- Gersich, F.M. & Milazzo, D.P. (1990). Evaluation of a 14-day static renewal toxicity test with *Daphnia magna* Straus. *Archives of Environmental Contamination and Toxicology* 19, 72–76. doi:10.1007/BF01059814
- Goldstein, J.N., Hubert, W.A., Woodward, D.F., Farag, A.M. & Meyer, J.S. (2001). Naturalized salmonid populations occur in the presence of elevated trace element concentrations and temperatures in the Firehole River, Yellowstone National Park, Wyoming, USA. *Environmental Toxicology and Chemistry* 20, 2342–2352. doi:10.1897/15515028(2001)020\2342:NSPOIT[2.0.CO;2
- Gozgit, J.M., Nestor, K.M., Fasco, M.J., Pentecost, B.T., & Arcaro, K.F. (2004). Differential action of polycyclic aromatic hydrocarbons on endogenous estrogen-responsive genes and on a transfected estrogen-responsive reporter in MCF-7 cells. *Toxicol. Appl. Pharmacol.* 196, 58–67.
- Grimmer, G. (1983). Environmental Carcinogens Polycyclic Aromatic Hydrocarbons. CRC Press, Boca Raton, Florida

- Hamilton, S. & Buhl, K. (1990). Acute Toxicity of Boron, Molybdenum, and Selenium to Fry of Chinook Salmon and Coho Salmon. *Archives of Environmental Contamination and Toxicology* 19, 366-373.
- Hamilton, S. & Buhl, K. (1997). Hazard Evaluation of Inorganics, Singly and in Mixtures, to Flannelmouth Sucker *Catostomus latipinnis* in the San Juan River, New Mexico *Ecotoxicology and Environmental Safety* 38, 296–308.
- Hamilton, S. (1995). Hazard Assessment of Inorganics to Three Endangered Fish in the Green River, Utah. *Ecotoxicology and Environmental Safety* 30, 134-142.
- Hartwell, S.I., Jordahl, D.M., Evans, J.E. & May, E.B. (1995). *Environmental Toxicology and Chemistry* 14, 1375-1386.
- Henderson, R.F., Sabourin, P.J., Bechtold, W.E., Griffith, W.C., Medinsky, M.A., Birnbaum, L.S. & Lucier, G.W. (1989). The effect of dose, dose rate, route of administration, and species on tissue and blood levels of benzene metabolites. *Environmental Health Perspectives* 82, 9–17.
- Hickey, C.W. (1989). Sensitivity of four New Zealand cladoceran species and *Daphnia magna* to aquatic toxicants. *New Zealand Journal of Marine and Freshwater Research* 23, 131–137.
- Hill, D. (2000). Reduction of Risk to the Marine Environment from Oilfield Chemicals: Environmentally Improved Acid Corrosion Inhibition for Well Stimulation. *Corrosion 2000* paper no. 00342.
- Hofer, R., Jeney, Z. & Bucher, F. (1995). Chronic Effects of Linear Alkylbenzene Sulfonate (LAS) and Ammonia on Rainbow Trout (*Oncorhynchus mykiss*) Fry at Water Criteria Limits. *Water Research* 29(12), 2725-2729.
- Holladay, S.D., Smith, S.A., Besteman, E.G., Deyab, A.S.M.I., Gogal, R.M., Hrubec, T., Robertson, J.L., & Ahmed, S. A. (1998). Benzo[a]pyrene-induced hypocellularity of the pronephros in tilapia (*Oreochromis niloticus*) is accompanied by alterations in stromal and parenchymal cells and by enhanced immune cell apoptosis. *Veterinary Immunology and Immunopathology* 64, 69–82.
- Horn, O., Nalli, S., Cooper, D., & Nicell, J. (2004). Plasticizer metabolites in the environment. *Water Research*, 38(17), 3693-3698. doi:10.1016/j.watres.2004.06.012
- Howard, P.H. (1990). *Ed. Handbook of Environmental Fate and Exposure Data for Organic Chemicals. Vol. II. Solvents*; Lewis Publishers, Inc.: Michigan.
- Howe, P.D. (1998). A review of boron effects in the environment. *Biological Trace Element Research* 66, 153–166. doi:10.1007/BF02783135
- HungYen, J., HsiungLin, K. & ShungWang, Y. (2002). Acute Lethal Toxicity of Environmental Pollutants to Aquatic Organisms. Environmental Research, Section B. *Ecotoxicology and Environmental Safety* 52, 113-116.
- Hylland, K. (2006). Polycyclic aromatic hydrocarbon (PAH) ecotoxicology in marine ecosystems. *Journal of Toxicology and Environmental Health. Part A*, 69(1-2), 109-123. doi:10.1080/15287390500259327
- IAP. (2005). Instituto Ambiental do Paraná. Laudo técnico do acidente do navio Vicuña, ocorrido em Paranaguá no dia 15 de novembro de 2004 (in Portuguese, Environmental Institute of Paraná. Technical Report on the accident with the ship Vicuña, which occurred in Paranaguá on November 15, 2004.) 75p. (Curitiba: IAP)

- Johnson, A. & Jürgens, M. (2003). Endocrine active industrial chemicals: Release and occurrence in the environment. *Pure and Applied Chemistry* 75(11–12), 1895–1904.
- Johnson, L.L., Landahl, J.T., Kubin, L.A., Horness, B.A., Myers, M.S., Collier, T.K. & Stein, J.E. (1998). Assessing the effects of anthropogenic stressors on Puget Sound flatfish populations. *Journal of Sea Research* 39, 125–137.
- Johnson, L.L., Sol, S.Y., Ylitalo, G.M., Hom, T., French, B., Olson, O.P. & Collier, T. K. (1999). Reproductive injury in English sole (*Pleuronectes vetulus*) from the Hylebos Waterway, Commencement Bay, Washington. *Journal of Aquatic Ecosystem Stress and Recovery* 6, 289–310.
- Kasozi, G.N., Kiremire, B.T., Bugenyi, F.W., Kirsch, N.H., & Nkedi-Kizza, P.(2006). Organochlorine residues in fish and water samples from lake victoria, uganda. *Journal of Environmental Quality*, 35(2), 584-589. doi:10.2134/jeq2005.0222
- Katsumiti, A., Domingos, F.X., Azevedo, M., da Silva, M.D., Damian, R.C. & Almeida, M.I. (2009). An assessment of acute biomarker responses in the demersal catfish *cathorops spixii* after the vicuna oil spill in a harbour estuarine area in southern brazil. *Environmental Monitoring and Assessment*, 152(1-4), 209-222. doi:10.1007/s10661-008-0309-3
- Kent, R., Andersen, D., Caux, P.Y. & Teed, S. (1999). Canadian Water Quality Guidelines for Glycols-An Ecotoxicological Review of Glycols and Associated Aircraft Anti-Icing and Deicing Fluids. *Environmental Toxicology* 14, 481-522.
- Khan, R.A. (1998). Influence of petroleum at a refinery terminal on winter flounder, *Pleuronectes americanus*. *Bulletin of Environmental Contamination and Toxicology* 61, 770–777.
- Khan, R.A. (2003). Health of flatfish from localities in Placentia Bay, Newfoundland, contaminated with petroleum and PCBs. *Archives of Environmental Contamination and Toxicology* 44, 485–492.
- Kobayashi, N. (1971). Fertilized sea urchin eggs as an indicatory material for marine pollution bioassay, preliminary experiments. *Publications of the Seto Marine Biological Laboratory* 18, 379-406.
- Kohen, R. & Nyska, A., (2002). Oxidation of biological systems: oxidative stress phenomena, antioxidants, redox reactions, and methods for their quantification. *Toxicology Pathology* 6, 620– 650.
- Landahl, J.T., Johnson, L.L., Stein, J.E., Collier, T.K., & Varanasi, U. (1997). Approaches for determining effects of pollution on fish populations of Puget Sound. *Transactions of the American Fisheries Society* 126, 519–535.
- Latorre, A., Rigol, A., Lacorte, S. & Barceló, D. (2005). Organic Compounds in Paper Mill Wastewaters. *The Handbook of Environmental Chemistry* (5) Part O, 25–51.
- Leung, H.W. (2001). Ecotoxicology of glutaraldehyde: Review of environmental fate and effects studies. *Ecotoxicology and Environmental Safety*, 49(1), 26-39. doi:10.1006/eesa.2000.2031
- Levshina, S., Efimov, N. & Bazarkin, V. (2009). Assessment of the Amur River Ecosystem Pollution with Benzene and Its Derivatives Caused by an Accident at the Chemical Plant in Jilin City, China. *Bulletin of Environmental Contamination and Toxicology*.
- Lewis, M.A. & Valentine, L.C. (1981). Acute and chronic toxicities of boric acid to

- Daphnia magna* Straus. *Bulletin of Environmental Contamination and Toxicology* 27, 309–315. doi:10.1007/BF01611025
- León, V.M., Sa´ez, M., González-Mazo, E. & Gómez-Parra, A. (2002). Occurrence and distribution of linear alkyl benzene sulfonates and sulfophenyl- carboxylic acids in several Iberian littoral ecosystems. *Science of the Total Environment* 288, 215–226.
- Lintelmann, J., Katayama, A., Kurihara, N., Shore, L., & Wenzel, A. (2003). Endocrine disruptors in the environment. *Pure and Applied Chemistry* 75, 631–681. doi:10.1351/pac200375050631.
- Loewengart, G. (2001). Toxicity of boron to rainbow trout: a weight-of evidence assessment. *Environmental Toxicology and Chemistry* 20, 796–803. doi:10.1897/15515028(2001)020\0796:TOBTRT[2.0.CO;2
- Lopez-Rodas, V., Perdignes, N., Marva, F., Rouco, M., & Garcia-Cabrera, J.A. (2008). Adaptation of phytoplankton to novel residual materials of water pollution: An experimental model analysing the evolution of an experimental microalgal population under formaldehyde contamination. *Bulletin of Environmental Contamination and Toxicology*, 80(2), 158-162. doi:10.1007/s00128-007-9336-y
- Machala, M., Perivalsky, M., Nezveda, K., Ulrich, R., Dusek, L., Piacka, V. & Svobodova, Z. (1997). Responses of carp hepatopancreatic 7-ethoxyresorufin-O-deethylase and glutathione-dependent enzymes to organic pollutants – A field study. *Environmental Toxicology and Chemistry* 16, 1410-1416.
- Maeso, E.S., Valiente, E.F., Bonilla, I., & Mateo, P. (1985). Accumulation of proteins in giant cells, induced by high boron concentrations in *Chlorella pyrenoidosa*. *Journal of Plant Physiology* 121, 301-311.
- Maier, K.J. & Knight, A.W. (1991). The toxicity of waterborne boron to *Daphnia magna* and *Chironomus decorus* and the effects of water hardness and sulfate on boron toxicity. *Archives of Environmental Contamination and Toxicology* 20, 282–287. doi:10.1007/BF01055917
- Martinez, F., Matio, P., Bonilla, I., & Fernandez-Valiente, E. (1986a). Cellular changes due to boron toxicity in the blue-green alga *Anacystis nidulans*. *Phyton* 46, 145-152.
- Martinez, F., Mateo, P., Bonilla, I., Fernandez-Valiente, E. & Garate, A. (1986b). Growth of *Anacystis nidulans* in relation to boron supply. *Israel Journal of Botany* 35, 17-21.
- Martinez, C.B.R., Nagaie, M.Y., Zaia, C.T.B.V. & Zaia, D.A.M. (2004). Acute morphological and physiological effects of lead in the neotropical fish *Prochilodus lineatus*. *Brazilian Journal of Biology* 64, 797–807.
- Mateo, P., Martinez, F., Bonilla, I., Valiente, E.F. & Maeso, E.S. (1987). Effects of high boron concentrations on nitrate utilization and photosynthesis in blue-green algae *Anabaena PCC 7119* and *Anacystis nidulans*. *Journal of Plant Physiology* 128, 161-168.
- Medinsky, M.A., Sabourin, P.J., Henderson, R.F., Lucier, G. & Birnbaum, L.S. (1989). Differences in the pathway for metabolism of benzene in rats and mice simulated by a physiological model. *Environmental Health Perspectives* 82, 43–49.
- Miller, G.J. (1982). Ecotoxicology of petroleum hydrocarbons in the marine environment. *Journal of Applied Toxicology* 2, 88-97.

- Miller, G.J. & Connell, D.W. (1980). Occurrence of petroleum hydrocarbons in some Australian seabirds. *Australian Wildlife Research* 7, 281-293.
- Mos, L., Cooper, G., Serben, K., Cameron, M. & Koop, B. (2008). Effects of Diesel on Survival, Growth, and Gene Expression in Rainbow Trout (*Oncorhynchus mykiss*) Fry. *Environmental Science and Technology* 42, 2656-2662.
- Myers, M.S., Stehr, C.M., Olson, O.P., Johnson, L.L., McCain, S.L., & Varanasi, U. (1994). Relationships between toxicopathic hepatic lesions and exposure to chemical contaminants in English sole (*Pleuronectes vetulus*), starry flounder (*Platichthys stellatus*), and white croaker (*Genyonemus lineatus*) from selected marine sites on the Pacific Coast, USA. *Environmental Health Perspectives* 102, 200–215.
- Myers, M.S., Johnson, L.L., Olson, O.P., Stehr, C.M., Horness, B.H., Collier, T.K. & McCain, B.B. (1998). Toxicopathic hepatic lesions as biomarkers of chemical contaminant exposure and effects in marine bottom fish species from the northeast and Pacific Coast, USA. *Marine Pollution Bulletin* 37, 92–113.
- Myers, M.S., French, B.L., Reichert, W.L., Willis, M.L., Anulacion, B.F., Collier, T.K. & Stein, J.E. (1998a). Reductions in CYP1A expression and hydrophobic DNA adducts in liver neoplasms of English sole (*Pleuronectes vetulus*): Further support for the “resistant hepatocyte” model of hepatocarcinogenesis. *Marine Environmental Research* 46, 197–202.
- Myers, M.S., Johnson, L.L., Hom, T., Collier, T.K., Stein, J.E. & Varanasi, U. (1998b). Toxicopathic hepatic lesions in subadult English sole (*Pleuronectes vetulus*) from Puget Sound, Washington, USA: Relationships with other biomarkers of contaminant exposure. *Marine Environmental Research* 45, 47–67.
- Nalli, S., Cooper, D.G. & Nicell, J.A. (2003). Biodegradation of plasticizers by *Rhodococcus rhodochrous*. *Biodegradation* 13(5), 343–352 .
- Navas, J.M. & Segner, H. (2000). Antiestrogenicity of β -naphthoflavone and PAHs in cultured rainbow trout hepatocytes: Evidence for a role of the arylhydrocarbon receptor. *Aquatic Toxicology* 51, 79–92.
- Neff, J.M. (1979). Polycyclic aromatic hydrocarbons in the aquatic environment. Sources, fates and biological effects. Barking, Essex, UK: *Applied Science*. 262 p.
- Neff, J.M. (2002). Bioaccumulation in marine organisms. Effects of contaminants from oil well produced water. Amsterdam, The Netherlands: *Elsevier*. 452 p.
- Neff, J.M., Stout, S. & Gunster, D. (2005). Ecological risk assessment of PAH in sediments: Identifying Sources and Ecological Hazard. *Integrated Environmental Assessment and Management* 1(1), 22–33.
- NICNAS, (1994). Priority Existing Chemical Assessment Reports No. 3: Glutaraldehyde. Australian Government Publishing Service, Canberra, 176pp.
- Nipper, M., Carr, R., Biedenbach, J., Hooten, R., Miller, K. & Saepoff, S. (2001). Development of Marine Toxicity Data for Ordnance Compounds. *Archives of Environmental Contamination and Toxicology* 41, 308–318 (2001).
- Pacheco, M. & Santos, M.A. (2001a). Biotransformation, endocrine, and genetic responses of *Anguilla anguilla* L. to petroleum distillate products and environmentally contaminated waters. *Ecotoxicology and Environmental Safety* 49, 64–75.
- Pacheco, M. & Santos, M.A. (2001b). Tissue distribution and temperature dependence of

- Anguilla anguilla* L. EROD activity following exposure to model inducers and relationship with plasma cortisol, lactate and glucose levels. *Environmental International* 26, 149–155.
- Palmera, C.G., Mullera, W.J., Gordona, A.K., Schermanb, P.A., Davies-Colemana, H.D., Pakhomovac, L. & de Kock, E. (2004). The development of a toxicity database using freshwater macroinvertebrates, and its application to the protection of South African water resources. *South African Journal of Science* 100, November/December, 643-650.
- Peterson, R.H., Martin-Robichaud, D.J. & Power, J. (1988). Toxicity of potash brines to early developmental stages of atlantic salmon (*salmo salar*). *Bulletin of Environmental Contamination and Toxicology*, 41(3), 391-397.
- Pillard, D.A. (1995). Comparative toxicity of formulated glycol deicers and pure ethylene and propylene glycol to *Ceriodaphnia dubia* and *Pimephales promelas*. *Environmental Toxicology and Chemistry* 14, 311-315.
- Ploch, S.A., King, L.C. & Di Giulio, R.T. (1998). Comparative time-course of benzo[a]pyrene-DNA adduct formation, and its relationship to CYP1A activity in two species of catfish. *Mar. Environ. Res.* 46, 345–349.
- Rao, D.V.S. (1981). Effect of boron on primary production of nanoplankton. *Canadian Journal of Fisheries and Aquatic Sciences* 38, 52-58.
- Rau, M.A., Whitaker, J., Freedman, J.H. & Di Giulio, R.T. (2004). Differential susceptibility of fish and rat liver cells to oxidative stress and cytotoxicity upon exposure to prooxidants. *Comparative Biochemistry and Physiology.Toxicology & Pharmacology : CBP*, 137(4), 335-342. doi:10.1016/j.cca.2004.03.001
- RCC. (1990b). Acute toxicity of Piror 850 to *Scenedesmus subspicatus*. RCC Umweltchemie AG Project 245340, Itingen, Switzerland.
- Ren, L., Meldahl, A. & Lech, J.J. (1996). Dimethyl formamide (DMFA) and ethylene glycol (EG) are estrogenic in rainbow trout. *Chemico-Biological Interactions* 102, 63-67.
- Rhodes, S., Farwell, A., Hewitt, L.M., MacKinnon, M. & Dixon, D.G. (2005). The effects of dimethylated and alkylated polycyclic aromatic hydrocarbons on the embryonic development of the Japanese medaka. *Ecotoxicology and Environmental Safety*. 60, 247–258.
- Salazar-Coria, L., Amezcua-Allieri, M.A., Tenorio-Torres, M. & Gonzalez-Macias, C. (2007). Polyaromatic hydrocarbons (PAHs) and metal evaluation after a diesel spill in Oaxaca, Mexico. *Bulletin of Environmental Contamination and Toxicology*, 79(4), 462-467. doi:10.1007/s00128-007-9240-5
- Sano, L.L., Russel, A.M., Krueger, A.M. & Landrum, P.F. (2003). Assessing the potential efficacy of glutaraldehyde for biocide treatment of unballasted transoceanic vessels. *Journal of Great Lakes Research* 29(4), 545–557.
- Sano, L.L., Krueger, A.M. & Landrum, P.F. (2005). Chronic toxicity of glutaraldehyde: differential sensitivity of three freshwater organisms. *Aquatic Toxicology* 71(3), 283–296.
- Schein, A., Scott, J.A., Mos, L. & Hodson, P.V. (2009). Oil dispersion increases the apparent bioavailability and toxicity of diesel to rainbow trout (*oncorhynchus mykiss*). *Environmental Toxicology and Chemistry / SETAC*, 28(3), 595-602. doi:10.1897/08-315.1

- Shade, W.D., Hurt, S.S., Jacobson, A.H. & Reinert, K.H. (1994). Ecological Risk Assessment of a Novel Marine Antifoulant. *Environmental Toxicology and Risk Assessment, vol 2*. J.W. Gorsuch, F.W. Dwyer, C.M Ingersoll, and T.W. LaPoint eds. (Philadelphia, PA: American Society for Testing and Materials).
- Sills, R.D. & Blakeslee, P.A. (1990). The Environmental Impact of Deicers in Airport Stormwater Runoff; Michigan Department of Natural Resources: Surface Water Quality Division, Lansing, Michigan.
- Silva, H.C., Medina, H., Fanta, E. & Bacila, M. (1993). Sub-lethal effects of the organophosphate Folidol 600 (methyl parathion) on *Callichthys callichthys* (*Pisces, Teleostei*). *Comparative Biochemistry and Physiology* 105, 197–201.
- Simonato, J.D., Albinati, A.C. & Martinez, C.B. (2006). Effects of the water soluble fraction of diesel fuel oil on some functional parameters of the neotropical freshwater fish *prochilodus lineatus valenciennes*. *Bulletin of Environmental Contamination and Toxicology*, 76(3), 505-511. doi:10.1007/s00128-006-0949-3
- Simonato, J.D., Guedes, C.L. & Martinez, C.B. (2008). Biochemical, physiological, and histological changes in the neotropical fish *prochilodus lineatus* exposed to diesel oil. *Ecotoxicology and Environmental Safety*, 69(1), 112-120. doi:10.1016/j.ecoenv.2007.01.012
- Soliman, F.M., El-Elaimy, I.A. & Hamada, H.M.A. (1995). Malathion toxicity to *Gambusia affinis* and its effects on brain acetylcholinesterase activity. *Alexandria Journal of Agricultural Research* 40, 227–242.
- Sprague, R.W. (1972). The ecological significance of boron. United States Borax and Chemical Corp., Los Angeles. 58 pp.
- Stein, J.E., Collier, T.K., Reichert, W.L., Casillas, E., Hom, T. & Varanasi, U. (1992). Bioindicators of contaminant exposure and sublethal effects: Studies with benthic fish in Puget Sound, Washington. *Environmental Toxicology and Chemistry* 11, 701–714.
- Sun, L., Qu, M., Li, Y., Wu, Y., Chen, Y., Kong, Z. & Liu, Z. (2004). Toxic Effects of Aminophenols on Aquatic Life Using the Zebrafish Embryo Test and the Comet Assay. *Bulletin of Environmental Contamination and Toxicology* 73, 628–634.
- Taylor, D., Maddock, B.G. & Mance, G. (1985). The acute toxicity of nine grey list metals (arsenic, boron, chromium, copper, lead, nickel, tin, vanadium and zinc) to two marine fish species: dab (*Limanda limanda*) and grey mullet (*Chelon labrosus*). *Aquatic Toxicology* 7, 135-144.
- Thompson, J.A.J., Davis, J.C. & Drew, R.E. (1976). Toxicity, uptake and survey studies of boron in the marine environment. *Water Research* 10, 869-875.
- Verschueren, K. (1985). Handbook of Environmental Data on Organic Chemicals. 2nd ed.; Van Nostrand Reinhold: New York.
- Vijayavel, K., & Balasubramanian, M. P. (2007). Interaction of potash and decis in the ecophysiology of a freshwater fish *oreochromis mossambicus*. *Ecotoxicology and Environmental Safety*, 66(2), 154-158. doi:10.1016/j.ecoenv.2005.12.005
- WHO. (1986). Indoor air quality: Radon and formaldehyde. In: Environmental Health. World Health Organization. Regional Office for Europe. Copenhagen. p 19-32
- WIL (1997). Chemical deactivation products of glutaraldehyde: A 5-day toxicity test with the freshwater alga (*Selenastrum capricorutum*). Wildlife International Ltd., Project No. 142A-111, Easton, MD.

- WIL. (1999). Ucarcide 250 Antimicrobial: An early life-stage toxicity test with the fathead minnow (*Pimephales promelas*). Wildlife International Ltd., Project No. 142A-105, Easton, MD.
- Williams, T. & Jacobson, A. Environmental Fate of Isothiazolone Biocides. *Corrosion* 99:paper no. 303. Rohm and Haas Company.
- Willingham, G.L., Jacobson, A., In: The Proceedings of the Third Asia-Pacific Conference on Paint Research Association, paper no: 14, p. 1-13, (International Centre for Coatings Technology, 1993). American Public Health Association, "Standard Methods for the Examination of Water and Wastewater," 17th ed.
- Yen, J.H., Lin, K.H. & Wang, Y.S. (2002). Acute Lethal Toxicity of Environmental Pollutants to Aquatic Organisms. *Ecotoxicology and Environmental Safety* 52, 113-116. Environmental Research, Section B.