

Jeffrey T. Miller

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University of California, Davis

Environmental Toxicology Department
4138 Meyer Hall, 1 Shields Avenue
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Education:

PhD, University of California-Davis
(Expected Dec 2017)

Pharmacology and Toxicology, Emphasis in
Organism-Environment Interactions

MS, Saint Cloud State University

Cell and Molecular Biology, Emphasis in
Aquatic Toxicology

BA, Minnesota State University-Moorhead

Ecology and Evolutionary Biology, Minor in
Geosciences

Research Interests: The physiological and evolutionary response of natural populations to environmental contaminants.

Publications:

Miller, J., Martinovic, D., Bartell, S., Schoenfuss, H. Quantifying Exposure & Effects of Endocrine Active Chemicals in the Environment through Parallel Field and Laboratory Studies of Bioindicators in *Pimephales promelas*. (In preparation)

Rochman, C., Tahir, A., Williams, S., Baxa, D., Lam, R., **Miller, J.**, Teh, F.C., Werorilangi, S., Teh, S. J. (2015) Plastic in seafood: Plastic debris in fish and bivalves sold for human consumption. *Scientific Reports* 5, 14340

Dubansky, B., Whitehead, A., **Miller, J. T.**, Rice, C. D., & Galvez, F. (2013) Multitissue molecular, genomic, and developmental effects of the deepwater horizon oil spill on resident Gulf killifish (*Fundulus grandis*). *Environmental Science and Technology*, 47, 5074–5082. doi:10.1021/es400458p

Kolok, A., **Miller, J.**, Schoenfuss, H. (2012) The mini mobile environmental monitoring unit: a novel bio-assessment tool. *Journal of Environmental Monitoring* 14 (1), 202-208

Wisenden, B., Karst, J., **Miller, J.**, Miller, S.D. Fuselier, L. (2008) Anti-Predator Behavior in Response to Chemical Cues in *Umbra limi*. *Environmental Biology of Fishes* 82: 85-92

Platform Presentations:

Miller, JT., Cherr, G., Whitehead, A. April 2015 ‘Aquatic Copper-Oxide Nanoparticle Exposure May Target Osmoregulatory Plasticity of Fish from Salinity Variable Environments.’ Northern California Society of Environmental Toxicology and Chemistry.

Miller, JT., Martinovic, D., Bartel, SE., Schoenfuss, HL. May 2011. ‘Abiotic Influences on Estrogenic Biomarker Expression in Riverine Conditions of Exposure to Treated Wastewater.’ International Conference on Pollutant Responses in Marine Organisms.

Miller, JT., Martinovic, D., Bartel, SE., Schoenfuss, HL. March 2011. 'How does treated wastewater effluent affect the biology of fish in receiving streams?' Minnesota Pollution Control Agency Wastewater Operations Conference.

Miller, JT., Martinovic, D., Bartel, SE., Schoenfuss, HL. March 2011 'Bioassessment of Wastewater's Estrogenic Impacts: Various Methods of Exposure Can Biomarkers Be Altered Differentially?' Mid-West Society of Environmental Toxicology and Chemistry.

Poster Presentations:

Miller, JT, Cherr, G., Whitehead, A. Impairment of Killifish Osmoregulatory Function by Aquatic Nano-Copper Oxide Exposure. (2014) Western Society of Naturalists Annual Meeting.

Miller, JT, Pilcher, W., Champlin, D., Proestou, D., Nacci, D., Whitehead, A.W. (2012). Genomic responses to PAHs in 2 pollution tolerant populations of *Fundulus heteroclitus*. National Meeting for Society for Environmental Toxicology and Chemistry.

Miller, J. T., Martinovic, D., Bartel, S. E., Schoenfuss, H. L. (2010). Quantifying Exposure & Effects of Endocrine Active Chemicals in the Environment through Parallel Field and Laboratory Studies of Bioindicators in *Pimephales promelas*. National Meeting for Society of Environmental Toxicology and Chemistry.

Awards and Funding:

National Institute of Environmental Health and Safety (NIEHS) Predoctoral Training Fellowship

National Science Foundation (NSF) GK-12 Graduate Fellowship (CAMEOS)

Society of Environmental Toxicology and Chemistry Research Scholarship

George Freiderich Wildlife Protection Fund Fellowship

Society for Environmental Toxicology and Chemistry Attendance Travel Award

Western Society of Naturalists Travel Award

Employment and Teaching Experience:

Graduate Teaching Assistant (Introductory Biology

Graduate Teaching Assistant (Biological Effect of Toxicants 103B) - University of California-Davis

Graduate Teaching Assistant (Biology for Science Majors 101/102) - Louisiana State University

Graduate Research Assistant (Aquatic Toxicology) – St. Cloud State University

Biological Science Technician – United States Park Service

Wilderness Technician – United States Forest Service

Outdoor Education Program Coordinator - Student Conservation Association

Committees and Service:

Bodega Marine Laboratory Outreach and Marine Ecology Educator

Pharmacology and Toxicology Graduate Group - Admissions Committee

NorCal Society for Environmental Toxicology and Chemistry - Board of Directors

Archbold Biological Station - Volunteer Herpetology and Stream Ecology

Student Conservation Association - Outdoors Education Program Coordinator

References:

Dr. Andrew Whitehead – University of California, Davis
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Dr. Heiko Schoenfuss - St. Cloud State University
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Professor of Anatomy, Director of Aquatic Toxicology Laboratory
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Dr. Gary Cherr – University of California, Davis
Bodega Marine Laboratory - Professor of Ecotoxicology
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