

Drew Ekman, Research Chemist, in EPA's National Exposure Research Laboratory

Exposure Methods and Measurements Division

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Area of Expertise: Drew Ekman has expertise in biochemistry, metabolomics, NMR spectroscopy, and chemometrics.

Select Publications:

Collette, T.W., Skelton, D.M., Cavallin, J.E., Jensen, K.M., Kahl, M.D., Villeneuve, D.L., Ankley, G.T., and Ekman, D.R. 2015. GC-MS Metabolite Profiles of Repeatedly Samples Urine from Male Fathead Minnows (*Pimephales promelas*) contain unique lipid signatures following exposure to anti-androgens. *In press*.

Ekman, D.R., Skelton, D.M., Davis, J.M., Villeneuve, D.L., Cavallin, J.E., Schroeder, A., Jensen, K.M., Ankley, G.T., Collette, T.W. 2015. Metabolite Profiling of Fish Skin Mucus: A Novel Approach for Minimally-Invasive Environmental Exposure Monitoring and Surveillance. *Environmental Science and Technology*. 49: 3091-3100.

Skelton, D.M., Ekman, D.R., Martinović-Weigelt, D., Ankley, G.T., Villeneuve, D.L., Teng, Q., Collette, T.W. 2014. Metabolomics for in Situ Environmental Monitoring of Surface Waters Impacted by Contaminants from Both Point and Nonpoint Sources. *Environmental Science and Technology*. 48: 2395-2403.

Ekman, D.R., Ankley, G.T., Blazer, V.S., Collette, T.W., Garcia-Reyero, N., Iwanowicz, L.R., Jorgenson, Z.G., Lee, K.E., Mazik, P.M., Miller, D.H., Perkins, E.J., Smith, E.T., Tietge, J.E., Villeneuve, D.L. (2013).

Davis, J.M., Collette, T.W., Villeneuve, D.L., Cavallin, J.E., Teng, Q., Jensen, K.M., Kahl, M.D., Mayasich, J.M., Ankley, G.T., Ekman, D.R. (2013). Field-Based Approach for Assessing the Impact of Treated Pulp and Paper Mill Effluent on Endogenous Metabolites of Fathead Minnows (*Pimephales promelas*). *Environmental Science and Technology*. 47: 10628-10636.

Teng, Q., Ekman, D.R., Huang, W., Collette, T.W. (2013). Impacts of 17 β -Ethinylestradiol Exposure on Metabolite Profiles of Zebrafish (*Danio rerio*) Liver Cells. *Aquatic Toxicology*. 130-131: 184-191.

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Education:

- Ph.D. Biochemistry and Molecular Biology, University of Georgia, 2003

- M.S. Biochemistry and Cellular and Molecular Biology, University of Tennessee, 2000
- B.S. Biochemistry and Molecular Biology, University of Georgia, 1997

Professional Experience:

- Research Chemist, USEPA, ORD, NERL-ERD, Athens, GA 2006-Present
- Federal Post-Doctoral Researcher, USEPA, ORD, NERL-ERD, Athens, GA 2003-2006.
- Graduate Assistant, University of Georgia, Athens, GA 2000-2003
- Graduate Assistant, University of Tennessee, Knoxville, TN 1997-2000