

GERALD T. ANKLEY

Toxicologist
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Education:

B.S., Fisheries and Wildlife, Michigan State University, 1982
M.S., Fish Physiology, University of Georgia, 1984
Ph.D., Fish Physiology, University of Georgia, 1987

Employment:

2005-Present Toxicologist, U.S. EPA, Duluth, MN
1994-Present Adjunct Professor, Department of Fisheries and Wildlife, University of Minnesota
1993-Present Adjunct Professor, Department of Biology, Michigan Technological University
2003-2005 Acting Associate Director for Science
2000-2003 Chief, Toxic Effects Characterization Branch
1996-2000 Toxicologist
1995-1996 Acting Chief, Ecological Toxicology Branch
1988-1995 Toxicologist
1987-1988 Postdoctoral Research Associate, Department of Zoology, Michigan State University

Research Interest and Skills:

Contaminant bioavailability, test method development and predictive toxicology techniques

Professional Societies:

Member of Society of Environmental Toxicology and Chemistry (SETAC)
Ecotoxicology Editor, Ecotoxicology and Environmental Safety (2005-present)
Member of Editorial Board, Ecotoxicology and Environmental Safety (2004-2005)
Ecotoxicology Editor, Environmental Science and Technology Special Issue (2004)
Member of Editorial Board, Chemosphere (1996-2005)
Aquatic Toxicology Editor, Environmental Toxicology and Chemistry (1997-2002)
Member of Editorial Board, Environmental Toxicology and Chemistry (1989-1993)

Selected Appointments/Honors/Major Awards:

EPA/ORD Science Communications Award, 2005
STAA for journal articles on developmental effects of retinoids on amphibians, 2005
STAA for journal articles concerning the ecological risk of trenbolone, 2005
EPA Bronze Medal for technical support to EPA Program Offices, 2004
EPA Bronze Medal for input to EPA Computational Toxicology Program, 2004
EPA Bronze Medal for OECD activities, 2004
STAA for journal article on EPA screening and testing program for EDCs, 2004
STAA for series of journal articles for evaluating risk of changes in solar UV, 2004
EPA Bronze Medal for amphibian/UV research program, 2003
Listed by ISI as charter member of Highly Cited Researchers database, 2003
STAA for journal article on test method with fish for endocrine-disrupting chemicals, 2003
STAA for journal article on masculinization of fish by pulp mill effluent, 2003
Identified by ISI as 6th most cited scientist in the world over last 10 years in the field of Environmental Science and Ecology, 2002

Selected Publications:

Diamond, S.A., G.S. Peterson, J.E. Tietge and G.T. Ankley. Assessment of the risk of solar ultraviolet radiation to amphibians. III. Prediction of impacts in Northern Midwestern wetlands. Environ. Sci. Technol. 36, 2866-2874.
Ankley, G.T., K.M. Jensen, E.A. Makynen, M.D. Kahl, J.J. Korte, M.W. Hornung, T.R. Henry, J.S. Denny, R.L. Leino, V.S. Wilson, M.C. Cardon, P.C. Hartig and L.E. Gray. 2003. Effects of the androgenic growth

- promoter 17 β -trenbolone on fecundity and reproductive endocrinology of the fathead minnow (*Pimephales promelas*). *Environ. Toxicol. Chem.* 22, 1350-1360.
- Degitz, S.J., G. Holcombe, P.A. Kosian, J. Tietge, E. Durhan and G.T. Ankley. 2003. Comparing the effects of stage and duration of retinoic acid exposure on amphibian limb development: chronic exposure results in mortality not limb malformations. *Toxicol. Sci.* 74, 139-146.
- Ankley, G.T. and R.D. Johnson. 2004. Small fish models for identifying and assessing the effects of endocrine-disrupting chemicals. *Inst. Lab. Anim. Res. J.* 45, 469-483.
- Ankley, G.T., D.W. Kuehl, M.D. Kahl, K.M. Jensen, B.C. Butterworth and J.W. Nichols. 2004. Partial life-cycle toxicity and bioconcentration modeling of perfluorooctanesulfonate in the Northern leopard frog (*Rana pipiens*). *Environ. Toxicol. Chem.* 23, 2745-2755.
- Wilson, V.S., M.C. Cardon, J. Thornton, J.J. Korte, G.T. Ankley, J. Welch, L.E. Gray and P.C. Hartig. 2004. Cloning, expression and characterization of the androgen receptor and isolation of the estrogen receptor alpha from the fathead minnow (*Pimephales promelas*). *Environ. Sci. Technol.* 38, 6314-6321.
- Ankley, G.T., K.M. Jensen, E.J. Durhan, E.A. Makynen, B.C. Butterworth, M.D. Kahl, D.L. Villeneuve, A. Linnum, L.E. Gray, M. Cardon, V.S. Wilson. 2005. Effects of two fungicides with multiple modes of action on reproductive endocrine function in the fathead minnow (*Pimephales promelas*). *Toxicol. Sci.* 86, 300-308.
- Ankley, G.T., M.C. Black, J. Garric, T.H. Hutchinson and T. Iguchi. 2005. A framework for assessing the hazard of pharmaceutical materials to aquatic species. In "Science for Assessing the Impacts of Human Pharmaceutical Materials on Aquatic Ecosystems", R. Williams, Ed. SETAC Press, Pensacola, FL. pp. 183-238.
- Miracle, A.L. and G.T. Ankley. 2005. Ecotoxicogenomics: linkages between exposure and effects in assessing risks of aquatic contaminants to fish. *Repro. Toxicol.* 19, 321-326.
- Ankley, G.T. and D.L. Villeneuve. 2006. The fathead minnow in aquatic toxicology: past, present and future. *Aquat. Toxicol.* 78, 91-102.
- Ankley, G.T., G.P. Daston, S.J. Degitz, N.D. Denslow, R.A. Hoke, S.W. Kennedy, A.L. Miracle, E.J. Perkins, J. Snape, D.E. Tillitt, C.R. Tyler and D. Versteeg. 2006. Toxicogenomics in regulatory ecotoxicology. *Environ. Sci. Technol.* 40, 4055-4065.
- Miller, D.H., K.M. Jensen, D.L. Villeneuve, M.D. Kahl, E.A. Makynen, E.J. Durhan and G.T. Ankley. 2006. Linkage of biochemical responses to population-level effects: a case study with vitellogenin in the fathead minnow. *Environ. Toxicol. Chem.* In Press.
- Villeneuve, D.L., P. Larkin, I. Knoebel, A.L. Miracle, M.D. Kahl, K.M. Jensen, E.A. Makynen, E.J. Durhan, B.J. Carter, N.D. Denslow and G.T. Ankley. 2007. A graphical systems model for hypothesis-driven ecotoxicogenomics research on the teleost brain-pituitary-gonadal axis. *Environ. Sci. Technol.* In Press.