# Biography: Tiffany Bredfeldt, Ph.D.

Toxicology Division

Texas Commission on Environmental Quality

## Current Position

Tiffany is a senior toxicologist at the Texas Commission on Environmental Quality. She is a Society of Toxicology member. Her current professional activities focus upon human health risk assessment, health effects evaluations of air permits, remediation, and public policy and outreach. She is also a member of the EPA Chemical Assessment Advisory Committee, which provides advice upon selected toxicological reviews of chemicals through the Integrated Risk Information System, and the EPA Risk and Technology Review (RTR) Methods Panel (2017). She has also served as on an advisory committee for the Alliance for Risk Assessment (ARA) workshop series entitled “Beyond Science and Decisions: From Problem Formulation to Dose-Response.” As part of this committee, Tiffany focuses on the emergence of new approaches in risk assessment, particularly those associated with the application of molecular data in human health risk assessment. In addition to these advisory roles, she has continued to work on text books and peer-reviewed publications in areas of risk assessment methodologies and the development and incorporation of new techniques into risk assessments. As time permits, Tiffany enjoys working with students and postdoctoral fellows at the University of Texas or with the Society of Toxicology in areas of career planning, project strategy, interpersonal communication, and professional networking.

## Prior Experience and Education

Tiffany received a B.S. in Microbiology from the University of Arkansas in 2001 and a Ph.D. in Pharmacology and Toxicology from the University of Arizona in 2006. Her research focus during her graduate studies was the carcinogenicity of arsenic metabolites and their underlying mechanisms of action. This research into the mechanisms of arsenic-induced carcinogenesis was published in various peer-reviewed journals and was acknowledged through awards from the Society of Toxicology and the National Institute of Environmental Health Sciences (NIEHS). Upon completion of doctoral studies, she conducted postdoctoral research with Dr. Cheryl Walker at the University of Texas M.D. Anderson Cancer Center, where she was the recipient of a NIEHS Ruth L. Kirschstein National Research Service Award. Tiffany’s postdoctoral research investigated the mechanisms by which early life exposure to endocrine disrupting chemicals called xenoestrogens increased cancer risk in adulthood by modulation of epigenetic structures.

## Contact Information

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