

**Barbara Wetmore, Ph.D.**

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Dr. Wetmore is a Senior Research Investigator at The Hamner Institutes for Health Sciences. Her research interests focus on the development and assessment of in vitro experimental and modeling tools that can be utilized to inform toxicity testing and risk assessment. Specifically, she has extensive expertise in vitro–in vivo extrapolation (IVIVE) modeling, pharmacokinetics, in vitro and high-throughput screening (HTS) approaches, chemical mode of action assessments, and life-stage based modeling to assess population variability. Her recent publications in IVIVE and life-stage based modeling received international awards (Simcyp Academic Awards: 2012, 2015; Outstanding Paper Advancing the Science of Risk Assessment, Risk Assessment Specialty Section of the Society of Toxicology: 2014). Other research interests have focused on the application of genomic and proteomic tools to inform chemical mode of action assessments and biomarker discovery. She has served in various capacities as an expert or peer reviewer for organizations including the National Academy of Sciences, European Union Reference Laboratory for Alternatives to Animal Testing, the U.S. Environmental Protection Agency, and Health Canada. She is an active member of the Society of Toxicology, currently serving as Vice President-elect for the In Vitro and Alternative Methods Specialty Section. She received her doctorate in toxicology from North Carolina State University.