

Matthew Martin, Research Biologist, in EPA's National Center for Computational Toxicology

[Mailing Address](#)

martin.matt@epa.gov

Area of Expertise: Dr. Martin's doctorate work focused on developing predictive models of reproductive toxicity and the application of those models toward chemical prioritization and integrated testing strategies. He started his career at Versar Inc. as an environmental scientist working at EPA doing antimicrobial pesticide risk assessment and eventually to CH2M Hill Inc. as a database analyst. He began his career at EPA as part of the EPA Intern Program (now called the Environmental Careers Program) where he was able to do rotations across different parts of the agency, including the Office of Pesticide Programs and Office of Pollution Prevention and Toxics. He is now a biologist within NCCT, where he is part of the EPA ToxCast team and leads the Toxicity Reference Database (ToxRefDB) effort. Matt also serves as the CSS task lead for developing predictive models of toxicity using high throughput screening data.

Select Publications:

Martin MT, Knudsen TB, Reif DM, Houck KA, Judson RS, Kavlock RJ, Dix DJ. [Predictive model of rat reproductive toxicity from ToxCast high throughput screening](#). *Biology of Reproduction*, 85:327-339. (2011) [Exit](#)

Sipes NS, Martin MT, Reif DM, Kleinstreuer NC, Judson RS, Singh AV, Chandler KJ, Dix DJ, Kavlock RJ, Knudsen TB. [Predictive Models of Prenatal Developmental Toxicity from ToxCast High-Throughput Screening Data](#). *Toxicological Sciences*, 124:109-127 (2011) [Exit](#)

Tluczkiwicz I, Buist HE, Martin MT, Mangelsdorf I, Escher SE. [Improvement of the Cramer classification for oral exposure using the database TTC RepDose - A strategy description](#). *Regul Toxicol Pharmacol*. In Press (2011) [Exit](#)

Piersma AH, Rorije E, Beekhuijzen ME, Cooper R, Dix DJ, Heinrich-Hirsch B, Martin MT, Mendez E, Muller A, Paparella M, Ramsingh D, Reaves E, Ridgway P, Schenk E, Stachiw L, Ulbrich B, Hakkert BC. [Combined retrospective analysis of 498 rat multi-generation reproductive toxicity studies: On the impact of parameters related to F1 mating and F2 offspring](#). *Reproductive Toxicology*, 31:392-401 (2011). [Exit](#)

View more research publications by [Matthew Martin](#).

Education:

- B.S., James Madison University, Harrisonburg, VA; Integrated Science and Technology (ISAT), 2003
- M.S., University of North Carolina at Chapel Hill; Environmental Sciences and Engineering, 2008
- Ph.D., University of North Carolina at Chapel Hill; Environmental Sciences and Engineering, 2011
- Certificate, University of North Carolina at Chapel Hill; Bioinformatics and Computational Biology Training Program, 2011

Professional Experience:

- Gold Coin Recipient and Certificate of Appreciation “In recognition of dedication and service in support of the Nation’s response to the Deepwater Horizon Oil Spill”, 2011
- Scientific and Technological Achievement Awards (STAA) Level II for “Communicating Toxicity Databases that Facilitate Transparency of EPA’s Evaluation of Chemical Risk to the Environment and Public Health”, 2011
- Scientific and Technological Achievement Awards (STAA) Level III for “Developing the ACToR System and Quantifying Data Gaps in Our Knowledge of Environmental Chemicals”, 2011
- Superior Accomplishment Recognition Award (SARA) for Toxcast data analysis, 2010

Additional Publications:

[National Center for Biotechnology Information](#) [Exit](#)