Todd Martin, Research Chemical Engineer in EPA's National Risk Management Research Laboratory

Land and Materials Management Division
Mailing Address

martin.todd@epa.gov

Area of Expertise: Computational toxicology/quantitative structure activity relationship (QSAR) models. Development of computer software applications (e.g. Java) to perform environmental calculations or analyses.

Select Publications:

Martin, T. M. (2017). "A framework for an alternatives assessment dashboard for evaluating chemical alternatives applied to flame retardants for electronic applications." Clean Technologies and Environmental Policy 19(4): 1067-1086.

Martin, T. M., C. R. Lilavois and M. G. Barron (2017). "Prediction of pesticide acute toxicity using two-dimensional chemical descriptors and target species classification." SAR and QSAR in Environmental Research 28(6): 525-539.

Martin, T. (2017). "A framework for an alternatives assessment dashboard for evaluating chemical alternatives applied to flame retardants for electronic applications." Clean Technologies and Environmental Policy 19(4):1067-1086.

Zhu, H., T. M. **Martin**, L. Ye, A. Sedykh, D. M. Young and A. Tropsha (2009). "Quantitative Structure−Activity Relationship Modeling of Rat Acute Toxicity by Oral Exposure." Chemical Research in Toxicology 22(12): 1913-1921.

Martin, T. M., P. Harten, R. Venkatapathy, S. Das and D. M. Young (2008). "A Hierarchical Clustering Methodology for the Estimation of Toxicity." Toxicology Mechanisms and Methods 18(2-3): 251-266.

Martin, T. M. and D. M. Young (2001). "Prediction of the Acute Toxicity (96-h LC50) of Organic Compounds to the Fathead Minnow (Pimephales promelas) Using a Group Contribution Method." Chemical Research in Toxicology 14(10): 1378-1385.

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Education:

- Ph.D., Auburn University, Auburn, AL; Chemical Engineering, 2000
- B.S., University of South Alabama, Mobile, AL; Chemical Engineering, 1995

Professional Experience:

Workgroups and Project Leads

- Co-project lead of the Sustainable Chemistry Project within the Chemical Safety for

Sustainability Research program
- Lead Developer for EPA's Toxicity Estimation Software Tool (TEST)
- Lead Developer for WAste Reduction Algorithm Graphical User Interface) software (WAR GUI)

Awards and Honors
- U.S. EPA ORD Bronze Medal for Commendable Service, 2015

Science Matters: Chemical Toxicity Testing Gone Digital
Science in Action Fact Sheet: Environmental Optimization Using the WAste Reduction Algorithm (WAR)