2018 RASS Student/Postdoc Award Winners

Perry J. Gehring Best Postdoctoral Fellow Abstract Award
Tara Raftery Catron, Advisor: Tamara L. Tal
US EPA, Research Triangle Park, NC, Exploring the Role of Host-Associated Microbiota as Mediators of Bisphenol Chemical Toxicity in Zebrafish.

Perry J. Gehring Best Graduate Student Abstract Award
Laura E. Ewing, Advisors: Igor Koturbash & Annie Lumen
University of Arkansas for Medical Sciences, Little Rock, AR
Dose-Response Effects of Dietary Methionine Intake on Radiation-Induced Toxicity: An Experimental and Computational Study.

Robert J. Rubin Student Travel Award*
Jalissa Nguyen Wynder, Advisor: William Ricke
University of Wisconsin-Madison, Madison, WI; ILSI North America, Washington, DC;
Evaluating the Applicability of Read-Across Tools and High-Throughput Screening Data for Food Relevant Chemicals.
*Joint award with Mechanisms Specialty Section

John Doull Award
Samantha C. Faber, Advisor: Shaun D. McCullough
University of North Carolina at Chapel Hill, Chapel Hill, NC.
Diesel Exhaust Particles Downregulate PI3K/Akt/mTOR Signaling and Mitochondrial Bioenergetics in a Novel Organotypic Model of the Airway Microenvironment.

Andersen Clewell Trainee Award**
Yi-Hsien Cheng, Advisor: Zhoumeng Lin
Kansas State University, Manhattan, KS.
Probabilistic Risk Assessment of Gold Nanoparticles by Integrating In Vitro and In Vivo Toxicity with Physiologically-Based Pharmacokinetic Modeling.
**Joint award with Biological Modeling Specialty Section

2017 BEST ABSTRACT AWARD WINNERS

Best Abstract
Broad Application of a Probabilistic Dose-Response Framework to Improve Chemical Risk Assessment.
W.A. Chiu[1], Q. Ouyang[1], C. Dalaijamts[1], D. Axelrad[2], C. Dockins[2], and G. Paoli[3].
[1]Texas A&M University, College Station, TX; [2]US EPA, Washington, DC; and [3]Risk Sciences International, Ottawa, ON, Canada.

Top 10 Abstracts
A Tool for Systematic Integration of Traditional and New Approach Methods for Prioritizing Chemical Lists.
R. Judson, A. Williams, C. Grulke, and R. Thomas.

US EPA, Research Triangle Park, NC.

Simulating Time Saved for Manual Screening of Literature for IRIS Assessments Using Text Analytics. M. Cawley, A. Varghese, H. Hubbard, and C. Henning.
ICF, Durham, NC. Sponsor: J. Wignall

Developmental and Reproductive Toxicology: Risk-Based Reference Values.
B. Gadagbui[1], A. Rak[2], A. Maier[1], and M. Dourson[1].
[1]Risk Science Center, University of Cincinnati, Cincinnati, OH; and [2]Noblis, Inc., Falls Church, VA.

Probabilistic Health Hazard Assessment of Cleaning Product Ingredients in All-Purpose Cleaners.
D. Dinh[1], Z. Wang[1], and B.W. Brooks[1,2].
[1]Baylor University, Waco, TX; and [2]Institute of Biomedical Studies, Waco, TX.

Application of Quantitative Approaches to Assess Uncertainties in the Development of Toxicity Values: A Case Study Involving the Reference Dose (RfD) for 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD).
D. Wikoff[1], P. Goodrum[2], L. Haws[3], and R. Budinsky[4].
[1]ToxStrategies, Asheville, NC; [2]Integral, Fayetteville,
NY; [3]ToxStrategies, Austin, TX; and [4]The Dow Chemical Company, Midland, MI.

The Future of Agrochemical Risk Assessment: Establishing a Platform for Early Estimation of Chronic Dietary Exposure for Agrochemicals.
Z. Zhang, P. Geurs, and Z. Yan.
Dow AgroSciences, Indianapolis, IN.

The Future of Agrochemical Risk Assessment: Framework for Conducting Chronic Risk Assessment with Enhanced Short-Term Toxicological Studies and Significantly Reduced Residue Trial Studies.
Z. Yan[1], K. Johnson[2], C. Terry[1], X. Wang[1], L. Murphy[2], P. Geurs[1], Z. Zhang[1], and R. Rasoulpour[1].
[1]Dow AgroSciences, Indianapolis, IN; and [2]The Dow Chemical Company, Midland, MI.

Application of Collaborative Analysis Methods to Address Human Health Risk Assessment Decisions.
A. Maier, J. Patterson, and O. Ogbonnaya.
University of Cincinnati, Cincinnati, OH.

A General Physiologically-Based Pharmacokinetic Model for Gold Nanoparticles of Different Sizes with Multiple Administration Routes in Rats.
Y. Cheng[1], J.E. Riviere[1], N.A. Monteiro-Riviere[2], W.G. Kreyling[3], and Z. Lin[1].
[1]Institute of Computational Comparative Medicine (ICCM), Department of Anatomy and Physiology, Kansas State University, Manhattan, KS; [2]Nanotechnology Innovation Center of Kansas State (NICKS), Department of Anatomy and Physiology, Kansas State University,

Manhattan, KS; and [3]German Research Center for Environmental Health, Institute of Epidemiology [2], Munich, Germany

RASS Best Published Papers in Risk Assessment

Best Published Paper Advancing the Science of Risk Assessment Award (tie)

Katherine A. Phillips, John F. Wambaugh, Christopher M. Grulke, Kathie L. Dionisioc, and Kristin K. Isaacs. High-throughput screening of chemicals as functional substitutes using structure-based classification models. Green Chem., 2017, 19, 1063

Julia E. Rager, Scott S. Auerbach, Grace A. Chappell, Elizabeth Martin, Chad M. Thompson, and Rebecca C. Fry. Benchmark dose modeling estimates of the concentrations of inorganic arsenic that induce changes to the neonatal transcriptome, proteome, and epigenome in a pregnancy cohort. Chem. Res. Toxicol, published online on September 19, 2017.

Best Published Paper Demonstrating an Application of Risk Assessment Award

Richard A. Becker, David A. Dreier, Mary K. Manibusan, Louis A. (Tony) Cox, Ted W. Simon, and James S. Bus. How well can carcinogenicity be predicted by high throughput "characteristics of carcinogens" mechanistic data? Regulatory Toxicology and Pharmacology 90 (2017) 185-196.