

2019 RASS Student/Postdoc Award Winners

John Doull Award

Rance Nault, Advisor: Timothy R Zacharewski

Michigan State University, East Lansing, MI

Application of toxicogenomics for the risk assessment of the food contaminant acetamide.

Perry J. Gehring Best Postdoctoral Fellow Abstract Award

Miao Li, Advisor: Zhoumeng Lin

Kansas State University, Manhattan, KS

Integration of Food Animal Residue Avoidance Databank (FARAD) empirical methods for drug withdrawal interval determination with a mechanistic population-based interactive physiologically-based pharmacokinetic (iPBPK) modeling platform: example for flunixin meglumine administration.

Perry J. Gehring Best Graduate Student Abstract Award

Axelle Marchand, Advisor: Pierre S. Haddad

Université de Montréal IRSPUM, Montreal, QC, Canada

Evaluating the Impact of Heat Stress on the Toxicokinetics of Volatile Solvents in Man Using PBPK Modeling.

Robert J. Rubin Student Travel Award

Robert Freeborn, Advisor: Cheryl Rockwell

Michigan State University, East Lansing, MI

The synthetic food additive tBHQ impairs host-defense to influenza infection.

Andersen Clewell Trainee Award

Wei-Chun Chou, Advisor: Zhoumeng Lin

Kansas State University, Manhattan, KS

Bayesian Evaluation of Physiologically Based Pharmacokinetic (PBPK) Modeling for Perfluorooctanesulfonate (PFOS) to Characterize the Interspecies Uncertainty between Mice, Rats, Monkeys, and Humans

2018 Best Abstract Award Winners

Best Abstract

Retrospective and Prospective Case Studies to Accelerate the Pace of Chemical Risk Assessment.

K. Paul Friedman¹, M. Gagne², T. Barton-Maclaren², J. Bucher³, R. Thomas¹, M. Rasenberg⁴, and T. Sobanski⁴.

¹US EPA/NCCT, Research Triangle Park, NC; ²Health Environments and Consumer Safety Branch, Health Canada, Ottawa, ON, Canada; ³NIEHS/NTP, Research Triangle Park, NC; and

⁴Computational Assessment Unit, European Chemicals Agency, Helsinki, Finland.

Top 10 Abstracts

FDA Assessment of Coronary Heart Disease Risk of Industrially-Produced Trans Fatty Acids in Partially hydrogenated Oils.

J. Park, K. Koehler, C. Whiteside, E. Anderson, M. Honigfort, and A. Zajac.
US FDA, College Park, MD.

Evaluating Potential Refinements to Existing Thresholds of Toxicological Concern Values for Environmentally Relevant Compounds.

M. D. Nelms ^{1,2}, P. Pradeep ^{1,2}, and G. Patlewicz².
¹ORISE, Oak Ridge, TN; and ²US EPA/NCCT, Durham, NC.

Use of a PBPK-Quantitative Adverse Outcome Pathway Model to Resolve the Species Specificity of Lung Carcinogens.

T. Hill III, M. Marikar, and R. Conolly.
US EPA, Research Triangle Park, NC.

The Extrapolation of a Safe Oral Dose from Lab Animals to Humans Differs by Agency.

J. A. Brickel.
Burdock Group, Orlando, FL.

Cancer Risk Assessment for Agrochemicals: Are Non-cancer Endpoints Protective of Tumor Endpoints?

Z. Yan, Y. Li, and C. Terry.
Corteva Agriscience, Indianapolis, IN.

A Novel Risk Assessment Model for Incorporating Co-exposures Provides Preliminary Guideline Values for Unregulated Chemicals.

E. M. Tanner¹, C. Bornehag², and C. Gennings¹.
¹Mount Sinai School of Medicine, New York, NY; and ²Karlstad University, Karlstad, Sweden

Adding Context to Tox21/ToxCast Data: Linking In Vitro Assays to Toxicity Outcomes

L. Karmaus¹, S. M. Bell¹, D. G. Allen¹, W. Casey², and N. C. Kleinstreuer³.
¹ILS, Research Triangle Park, NC; ²NIEHS, Research Triangle Park, NC; and ³NIEHS/NICEATM, Research Triangle Park, NC

The Utility of Informative Prior in Benchmark Dose Modeling for Animal Reduction.

K. Shao¹, W. A. Chiu², and A. Shapiro³.
¹Indiana University, Bloomington, IN; ²Texas A&M University, College Station, TX; and ³Independent Consultant, Durham, NC.

An Integrated Approach to Evaluate Common Mechanisms of Toxicity in Pesticides to Support Cumulative Risk Assessment

J. Leonard¹, M. Nelms¹, E. Craig², S. Dobreniecki², M. Perron², H. Pope-Varsalona², A. Lowit², and C. Tan².

¹Oak Ridge Institute for Science and Education, Oak Ridge, TN; and ²US EPA, Washington, DC.

RASS 2018 Best Published Paper Award Winners

RASS 2018 Best Published Paper Advancing the Science of Risk Assessment Award

Kleinsteuer NC, Hoffmann S, Alépée N, Allen D, Ashikaga T, Casey W, Clouet E, Cluzel M, Desprez B, Gellatly N, Göbel C, Kern PS, Klaric M, Kühnl J, Martinuzzi-Teissier S, Mewes K, Miyazawa M, Strickland J, van Vliet E, Zang Q, Petersohn D. **Non-animal methods to predict skin sensitization (II): an assessment of defined approaches.** Crit. Rev. Toxicol. 2018 48:359-374. doi.org/10.1080/10408444.2018.1429386.

RASS 2018 Best Published Paper Demonstrating an Application of Risk Assessment Award

Zhang Q, Li J, Middleton A, Bhattacharya S, Conolly RB. **Bridging the Data Gap From *In vitro* Toxicity Testing to Chemical Safety Assessment Through Computational Modeling.** Front. Public Health. 2018 6:261. doi: 10.3389/fpubh.2018.00261.