

## **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 Friedman<sup>1</sup>, M. Gagne<sup>2</sup>, T. Barton-Maclaren<sup>2</sup>, J. Bucher<sup>3</sup>, R. Thomas<sup>1</sup>, M. Rasenberg<sup>4</sup>, and T. Sobanski<sup>4</sup>.

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

<sup>4</sup>Computational 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<sup>1,2</sup>, P. Pradeep<sup>1,2</sup>, and G. Patlewicz<sup>2</sup>.  
<sup>1</sup>ORISE, Oak Ridge, TN; and <sup>2</sup>US 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. Tanner<sup>1</sup>, C. Bornehag<sup>2</sup>, and C. Gennings<sup>1</sup>.  
<sup>1</sup>Mount Sinai School of Medicine, New York, NY; and <sup>2</sup>Karlstad University, Karlstad, Sweden

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

L. Karmaus<sup>1</sup>, S. M. Bell<sup>1</sup>, D. G. Allen<sup>1</sup>, W. Casey<sup>2</sup>, and N. C. Kleinstreuer<sup>3</sup>.  
<sup>1</sup>ILS, Research Triangle Park, NC; <sup>2</sup>NIEHS, Research Triangle Park, NC; and <sup>3</sup>NIEHS/NICEATM, Research Triangle Park, NC

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

K. Shao<sup>1</sup>, W. A. Chiu<sup>2</sup>, and A. Shapiro<sup>3</sup>.  
<sup>1</sup>Indiana University, Bloomington, IN; <sup>2</sup>Texas A&M University, College Station, TX; and  
<sup>3</sup>Independent Consultant, Durham, NC.

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

J. Leonard<sup>1</sup>, M. Nelms<sup>1</sup>, E. Craig<sup>2</sup>, S. Dobreniecki<sup>2</sup>, M. Perron<sup>2</sup>, H. Pope-Varsalona<sup>2</sup>, A. Lowit<sup>2</sup>, and C. Tan<sup>2</sup>.

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

**RASS 2018 Best Published Paper Award Winners**

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

Kleinstreuer 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, Martinozzi-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.