Dear RASS Members:

It’s SOT Annual Meeting time again. I hope everyone is looking forward to a productive Annual Meeting. There are lots of interesting sessions that were endorsed by RASS (see below). I hope you can make it to some of them and you find them interesting.

The RASS mixer will be Tuesday, March 13 from 6:00 – 7:30 pm in the Grand Hyatt Texas A Ballroom. We look forward to seeing everyone there. The mixer will be mostly social time for networking with a break to present award winners and updates on RASS activities.

I want to welcome our new officers to RASS (see below). If you see these people at the meeting, please offer your thanks. They have stepped up and will be volunteering a lot of their free time over the next couple years to serve you and the risk assessment community.

RASS provides several awards each year for student and postdocs, best papers in risk assessment published in 2017, and best abstracts submitted to the 2018 Annual Meeting. Congratulations go to these deserving recipients. I am grateful to all the RASS members who volunteered to be part of the selection process. Recipients in the different categories are listed in this edition of the newsletter and awards will be presented at the RASS mixer.

It has been an honor to serve as the President of RASS this year. It is a fine scientific community to represent and I am truly honored to have served in this role. The executive committee of RASS has been a pleasure to work with and I offer to them my sincere thanks. I also owe special thanks to members of SOT staff who have helped us out with a variety of questions and logistics.

I look forward to seeing many colleagues in San Antonio in a few days.

Best Regards,

Elaina M. Kenyon, PhD, DABT
President, RASS
Election Results
Thank you everyone who volunteered to run for an officer position and for casting your ballot. Based on the results of the recent election for RASS officers, the incoming officers for 2018 - 2019 are:

- **Vice President-Elect:** Barbara Wetmore, PhD
- **Councillor:** Anne E. Loccisano, PhD, DABT
- **Postdoctoral Representative:** Jeanette Reyes, PhD
- **Graduate Student Representative:** Paige Bommarito, BS

Volunteer Pool
There are a number of opportunities for RASS members to get involved with RASS-related activities. Your help is greatly needed! If you would like to enter your name into the RASS Volunteer Pool, please email Alea Goodmanson (agoodmanson@toxstrategies.com).

Upcoming RASS Webinars

**April 11**
*Use of the “Exposome” in the Convergence of Toxicology and Epidemiology: A Primer on –Omic Technologies for Achieving Health Impact*
Tania Carreón-Valencia, PhD
National Institute for Occupational Safety and Health (NIOSH)

**May 9**
*Overview of an Uncertainty Analysis Tool to Increase Transparency and Communication of Uncertainty in Chemical Risk Assessment*
Jennifer Foreman, PhD
Toxicology and Environmental Sciences Division
ExxonMobil Biomedical Sciences, Inc.

**May 31**
Deadline to submit topic and speaker suggestions for 2018-2019 season!

Annual Meeting RASS Events – Highlights

**Risk Assessment Specialty Section Meeting/Reception**
Tuesday, March 13
6:00 PM to 7:30 PM
Grand Hyatt Texas A
RASS Sponsored Sessions at the 2018 SOT Annual Meeting

Sunday, March 11

Physiologically-Based Pharmacokinetic Modeling to Support Modernized Chemical Safety Assessment
AM07 Continuing Education Course
8:15 AM to 12:00 Noon

Consumer Products Safety Assessment: Progress in the Use of Alternatives to Animal Models
PM09 Continuing Education Course
1:15 PM to 5:00 PM

Evaluation of Leachable Substances from Materials with Applications in Foods and Pharmaceuticals: Science- and Risk-Based Approaches
PM10 Continuing Education Course
1:15 PM to 5:00 PM

Xenobiotic Pharmacokinetics during Pregnancy and Lactation
PM14 Continuing Education Course
1:15 PM to 5:00 PM

Tuesday, March 13

Advancing the Adverse Outcome Pathway Framework: An International Horizon-Scanning Approach
Workshop Session
8:00 AM to 10:45 AM, CC Hemisfair Ballroom C2

Alternative Toxicology Approaches to Evaluate Next-Generation Nicotine Products
Roundtable Session
11:00 AM to 12:20 PM, CC Room 301

Application of Data from New Approaches in Regulatory and Product Safety Decisions
Symposium Session
1:30 PM to 4:15 PM, CC Stars at Night Ballroom B4

Communicating Science: Unconventional Oil and Gas Operations as a Case Study
Regional Interest Session
1:30 PM to 4:15 PM, CC Hemisfair Ballroom C3

Monday, March 12

Assessing the Dose of Particles in Toxicological Studies: Advances in Dosimetry Models for In Vitro and In Vivo Applications in Light of Risk Assessment
Workshop Session
9:15 AM to 12:00 Noon, CC Room 303

Toxicology’s Next Grand Challenge: Embracing Exposure Science for Effective Public Health Protection
Workshop Session
9:15 AM to 12:00 Noon, CC Room 302

Moving Beyond Theory to the Use of Systematic Review to Support Regulatory Decision Making for Evidence-Based Risk Assessment
Informational Session
12:10 PM to 1:30 PM, CC Stars at Night Ballroom B1

Alternative Testing Strategies for Nanomaterials and Ultrafine Particles
Symposium Session
1:45 PM to 4:30 PM, CC Room 303

Chemical Grouping for 21st-Century Toxicology, Risk Assessment, and Decision Making
Symposium Session
1:45 PM to 4:30 PM, CC Hemisfair Ballroom C2

Wednesday, March 14

Reaching Hazard Conclusions for Endocrine-Disrupting Chemicals: Adapting Systematic Review Methods
Workshop Session
8:00 AM to 10:45 AM, CC Hall 1

Reducing the Uncertainty of ReadAcross Predictions by New Approach Methodologies: Application in Regulatory Human Risk Assessments
Workshop Session
8:00 AM to 10:45 AM, CC Room 301

Is a Common Mechanism of Action Essential to Conduct a Cumulative Risk Assessment or Just Nice to Have?
Roundtable Session
11:00 AM to 12:20 PM, CC Hemisfair Ballroom C2

Career Opportunities in Regulatory Toxicology
Education-Career Development Session
11:00 AM to 12:20 PM, CC Stars at Night Ballroom B1

The Kinetically-Derived Maximum Dose (KMD), a New Dimension to the Maximum Tolerated Dose (MTD)
Roundtable Session
4:30 PM to 5:50 PM, CC Stars at Night Ballroom B4
2018 Student and Postdoc RASS Award Winners

John Doull Award

**Samantha C. Faber**  
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.**  
Abstract #1216 in Poster Session: Air Pollution  
Monday, March 12, 9:15 AM to 10:45 AM  
Advisor: Shaun D. McCullough

Perry Gehring Postdoc Award

**Tara Raftery Catron**¹, D. Phelps², S. Keely², N. Brinkman², E. Anneken², A. Kvasnicka³, C. Wood¹, and T. Tal¹.  
¹US EPA, Research Triangle Park, NC; ²US EPA, Cincinnati, OH; and ³Meredith College, Raleigh, NC.  
**Exploring the Role of Host-Associated Microbiota as Mediators of Bisphenol Chemical Toxicity in Zebrafish.**  
Abstract #1417 in Poster Session: Neurodevelopmental Toxicity I  
Monday, March 12, 3:00 PM to 4:30 PM  
Advisor: Tamara L. Tal

Perry Gehring Student Award

**Laura E. Ewing**¹, A. Lumen², I.R. Miousse¹, R. Pathak¹, S.Garg¹, C.M. Skinner¹, S. Melnyk¹, H. Hendrickson¹, R. Landes¹, A. Tackett¹, M. Hauer-Jensen¹, and I. Koturbash¹.  
¹University of Arkansas for Medical Sciences, Little Rock, AR; and ²US FDA/NCTR, Jefferson, AR.  
**Dose-Response Effects of Dietary Methionine Intake on Radiation-Induced Toxicity: An Experimental and Computational Study.**  
Abstract #2837 in Poster Session: Risk Assessment Applications I  
Wednesday, March 14, 3:00 PM to 4:30 PM  
Advisors: Igor Koturbash & Annie Lumen

Robert J. Rubin Student Travel Award *

**Jalissa Nguyen Wynder**¹,², J. Ovesen³, A. Maier³, R. Judson⁴, N. Kleinstreuer⁵, and M. Krishan³.  
¹University of Wisconsin-Madison, Madison, WI; ²ILSI North America, Washington, DC; ³University of Cincinnati, Cincinnati, OH; ⁴US EPA, Research Triangle Park, NC; and ⁵NICEATM, Durham, NC.  
**Evaluating the Applicability of Read-Across Tools and High-Throughput Screening Data for Food Relevant Chemicals.**  
Abstract #1613 in Poster Session: Food Safety and Nutrition  
Monday, March 12, 10:45 AM to 12:15 PM  
Advisor: William Ricke  
*Joint award with Mechanisms Specialty Section

Andersen-Clewell Trainee Award **

**Z. Lin, Yi-Hsien Cheng**, J.E. Riviere, and N.A. Monteiro-Riviere. Kansas State University, Manhattan, KS.  
**Probabilistic Risk Assessment of Gold Nanoparticles by Integrating In Vitro and In Vivo Toxicity with Physiologically-Based Pharmacokinetic Modeling.**  
Abstract #3175 in Poster Session: Modeling of Pharmacokinetics and Biological Effects  
Wednesday, March 14, 1:30 PM to 3:00 PM  
Advisor: Zhoumeng Lin  
**Joint award with Biological Modeling Specialty Section
2018 Best Abstract

W.A. Chiu¹, Q. Ouyang¹, C. Dalaijamts¹, D. Axelrad², C. Dockins², and G. Paoli³.
¹Texas A&M University, College Station, TX; ²US EPA, Washington, DC; and ³Risk Sciences International, Ottawa, ON, Canada.
Abstract #2870 in Poster Session: Risk Assessment Methods and Policies
Wednesday, March 14, 3:00 PM to 4:30 PM

Top Ten 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.
Abstract #2873; Poster #P398 (3/14; 3:00 PM to 4:30 PM)

ICF, Durham, NC. Sponsor: J. Wignall
Abstract #2880; Poster #P405 (3/14; 3:00 PM to 4:30 PM)

Developmental and Reproductive Toxicology: Risk-Based Reference Values.
B. Gadagbui¹, A. Rak², A. Maier³, and M. Dourson⁴.
¹Risk Science Center, University of Cincinnati, Cincinnati, OH; and ²Noblis, Inc., Falls Church, VA.
Abstract #2885; Poster #P410 (3/14; 3:00 PM to 4:30 PM)

Probabilistic Health Hazard Assessment of Cleaning Product Ingredients in All-Purpose Cleaners.
D. Dinh¹, Z. Wang¹, and B.W. Brooks¹².
¹Baylor University, Waco, TX; and ²Institute of Biomedical Studies, Waco, TX.
Abstract #2887; Poster #P412 (3/14; 3:00 PM to 4:30 PM)

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. Wikoff¹, P. Goodrum², L. Haws³, and R. Budinsky⁴.
¹ToxStrategies, Asheville, NC; ²Integral, Fayetteville, NY; ³ToxStrategies, Austin, TX; and ⁴The Dow Chemical Company, Midland, MI.
Abstract #2888; Poster #P413 (3/14; 3:00 PM to 4:30 PM)

Z. Zhang, P. Geurs, and Z. Yan.
Dow AgroSciences, Indianapolis, IN.
Abstract #2919; Poster #P445 (3/14; 3:00 PM to 4:30 PM)

Z. Yan¹, K. Johnson², C. Terry¹, X. Wang¹, L. Murphy², P. Geurs¹, Z. Zhang¹, and R. Rasoulpour¹.
¹Dow AgroSciences, Indianapolis, IN; and ²The Dow Chemical Company, Midland, MI.
Abstract #2920; Poster #P446 (3/14; 3:00 PM to 4:30 PM)

Application of Collaborative Analysis Methods to Address Human Health Risk Assessment Decisions.
A. Maier, J. Patterson, and O. Ogbonnaya.
University of Cincinnati, Cincinnati, OH.
Abstract #2958; Poster #P494 (3/14; 3:00 PM to 4:30 PM)

A General Physiologically-Based Pharmacokinetic Model for Gold Nanoparticles of Different Sizes with Multiple Administration Routes in Rats.
Y. Cheng¹, J.E. Riviere⁴, N.A. Monteiro-Riviere⁴², W.G. Kreyling¹, and Z. Lin¹.
¹Institute of Computational Comparative Medicine (ICCM), Department of Anatomy and Physiology, Kansas State University, Manhattan, KS; ²Nanotechnology Innovation Center of Kansas State (NICKS), Department of Anatomy and Physiology, Kansas State University, Manhattan, KS; and ³German Research Center for Environmental Health, Institute of Epidemiology 2, Munich, Germany.
Abstract #3176; Poster #P815 (3/14; 1:30 PM to 3:00 PM)
2018 Best Published Paper Award Winners

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

High-throughput screening of chemicals as functional substitutes using structure-based classification models.

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. (http://dx.doi.org/10.1021/acs.chemrestox.7b00221)

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

How well can carcinogenicity be predicted by high throughput “characteristics of carcinogens” mechanistic data?
Regulatory Toxicology and Pharmacology 90 (2017) 185-196 (http://dx.doi.org/10.1016/j.yrtph.2017.08.021)

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