

2017 RASS Award Winners



John Doull Award

Tanzir B. Mortuza¹, J. Pang¹, T.S. Osimitz², M.R. Creek³, B.S. Cummings¹, J.V. Bruckner¹, and C.A. White¹.

¹University of Georgia, Athens, GA; ²Science Strategies, LLC, Charlottesville, VA; and ³Valent, Dublin, CA.

Age-dependent Toxicokinetics (TK) of Trans-Permethrin (TRANS) in Adult and Juvenile Sprague-Dawley (SD) Rats

Abstract # 2665 in Poster Session: Pesticides

Wednesday, March 15; 9:30 AM to 12:45 PM

Advisor: James V. Bruckner

Perry Gehring Postdoc Award

Fabian A. Grimm¹, W. Chiu¹, N.H. Hsieh¹, C. Dalaijamts¹, S. Burnett¹, B. Anson², A. Wright¹, F. Wright³, and I.

Rusyn¹. ¹Texas A&M University, College Station, TX; ²Cellular Dynamics International, Madison, WI; and ³North Carolina State University, Raleigh, NC. Diversity in a dish: A population-based organotypic human *in vitro* model for cardiotoxicity testing.

Abstract #3223 in Poster Session: Emerging Technologies

Thursday, March 16; 8:30 AM to 11:45 AM

Advisor: Ivan Rusyn

Perry Gehring Student Award

Abhishek Venkatratnam University of North Carolina at Chapel Hill, Chapel Hill, NC. A population-wide study of metabolism and toxicodynamics of trichloroethylene using Collaborative Cross (CC) mouse panel provides critical insights into the mechanisms of inter-individual variability

Abstract #2482 in Poster Session: Disposition/Pharmacokinetics

Wednesday, March 15; 9:30 AM to 12:45 PM

Advisor: Ivan Rusyn

Honorable Mention

Gopi Gadupudi¹, W.D. Klaren¹, A.K. Olivier², A.J. Klingelhutz¹, and L.W. Robertson¹. ¹University of Iowa, Iowa City, IA; and ²Mississippi State University, Mississippi State, MS. Diminished Phosphorylation of CREB Is a Key Event in the Dysregulation of Gluconeogenesis, Glycogenolysis, and Fatty Acid Oxidation in PCB126 Hepatotoxicity.

Abstract #2517 in Poster Session: Liver 1: Mechanisms and Translational Biomarkers

Wednesday, March 15; 9:30 AM to 12:45 PM

Advisor: Larry W. Robertson

Robert J. Rubin Student Travel Award

Yvonne Chang, D.A. Sampson, L.K. Siddens, C.V. Lohr, S.L. Massey, Simonich, and S.C. Tilton. Oregon State University, Corvallis, OR. PAHs Differentially Regulate Transcription in Human 3D Bronchial Epithelium Abstract #2779 in Poster Session: Alternatives to Mammalian Models II
Wednesday, March 15; 1:15 PM to 4:30 PM
Advisor: Susan C. Tilton

Honorable Mention

Gopi Gadupudi¹, W.D. Klaren¹, A.K. Olivier², A.J. Klingelhutz¹, and L.W. Robertson¹. ¹University of Iowa, Iowa City, IA; and ²Mississippi State University, Mississippi State, MS. Diminished Phosphorylation of CREB Is a Key Event in the Dysregulation of Gluconeogenesis, Glycogenolysis, and Fatty Acid Oxidation in PCB126 Hepatotoxicity.

Abstract #2517 in Poster Session: Liver 1: Mechanisms and Translational Biomarkers
Wednesday, March 15; 9:30 AM to 12:45 PM
Advisor: Larry W. Robertson

RASS Trainee Award

Joseph Cichocki¹, S. Furuya¹, I. Pogribny², W. Chiu¹, D. Threadgill¹, and I. Rusyn¹. ¹Texas A&M University, College Station, TX; and ²US FDA/NCTR, Jefferson, AR. Non-Alcoholic Fatty Liver Disease as a Modifier of Perchloroethylene-Induced Toxicity

Abstract #2512 in Poster Session: Liver 1: Mechanisms and Translational Biomarkers
Wednesday, March 15; 9:30 AM to 12:45 PM
Advisor: Ivan Rusyn

2016 BEST ABSTRACTS

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Cross-Species Integration of Human Health and Ecological Endpoints Using the Aggregate Exposure Pathway (AEP) and Adverse Outcome Pathway (AOP) Frameworks to Advance Risk Assessment.

D.E. Hines, S.W. Edwards, R.B. Conolly, and A.M. Jarabek. US EPA, Durham, NC.

Abstract #2827 in Poster Session: Risk Assessment Strategies and Applications, Wednesday Afternoon, March 15 1:15 PM to 4:30 PM



“TOP TEN” Abstracts

Linking High Resolution Mass Spectrometry Data with Exposure and Toxicity Forecasts to Advance High-Throughput Environmental Monitoring

Julia E. Rager¹, Mark J. Strynar², Shuang Liang¹, Rebecca McMahan¹, Ann M. Richard³, Christopher M. Grulke⁴, John F. Wambaugh³, Kristen K. Isaacs², Richard Judson³, Antony J. Williams³, Jon R. Sobus²

¹US EPA, ORISE, Research Triangle Park, NC; ²NERL, US EPA, Research Triangle Park, NC; ³NCCT, US EPA, Research Triangle Park, NC;

⁴Lockheed Martin, Research Triangle Park, NC

Abstract #3539 in Emerging Technologies, Thursday Morning, March 17

The Most Scientifically-Supported Approach for Assessing the Carcinogenicity of Oral Exposure to Hexavalent Chromium: Non-Linear, Non-Threshold versus Threshold Approaches

Joseph T. Haney

Toxicology Division, Texas Commission on Environmental Quality, Austin, TX

Abstract #1536 in Metal Toxicity, Monday Afternoon, March 14

Extrapolating Salivary Acinar Cell *In Vitro* Pesticide Transport to Whole Animals Using Computational Modeling

Charles Timchalk, Zana A. Carver, Thomas J. Weber, Jordan N. Smith

Pacific Northwest National Laboratory (PNNL), Richland, WA

Abstract #1129 in Biomonitoring, Monday Morning, March 14

An Approach to Skin Sensitization Quantitative Risk Assessment using a Bayesian Integrated Testing Strategy to Derive Potency

Cynthia Ryan¹, Joanna Jaworska², Petra Kern³, G. Frank Gerberick¹

¹The Procter & Gamble Company, Mason, OH; ²The Procter & Gamble Company, Strombeek-Bever, Belgium; ³The Procter & Gamble Company, Beijing, China

Abstract #2195 in Alternative Models for Ocular and Skin Toxicity, Tuesday Afternoon, March 15

A Next Generation Benchmark Dose Computation System

Kan Shao¹, Andy Shapiro²

¹Department of Environmental Health, Indiana University, Bloomington, IN; ²Independent consultant, Durham, NC

Abstract #2165 in Risk Assessment 1, Tuesday Morning, March 15

An Evaluation of Transplacental Carcinogenesis for Human Health Risk Assessment

Brenda Foos¹, Michelle Mabson², John Rogers³, Bob Sonawane¹, Gary Ginsberg⁴

¹US Environmental Protection Agency, Washington, DC; ²Oak Ridge Institute for Science and Education, Washington, DC; ³US Environmental Protection Agency, Research Triangle Park, NC; ⁴Connecticut Department of Health, Hartford, CT

Abstract #2717 in Risk Assessment 3, Wednesday Morning, March 16

Multimodal Screening of Functional and Structural Drug Toxicities Using Human Stem Cell-Derived Cardiomyocytes

Mathew Brock, Julia Heidmann, Ariel Kauss, Dinah Misner

Safety Assessment, Genentech, South San Francisco, CA

Abstract #1743 in Pluripotent Stem Cells in Cardiovascular Research, Monday, March 14 (3:20 PM)

A Case Study on the Utility of a Tiered Surrogate Approach in Quantitative Risk Assessment of 2,4,6-Trinitrophenol

Lucina E. Lizarraga¹, Q. Jay Zhao²

¹Oak Ridge Institute for Science and Education, Cincinnati, OH; ²U.S. EPA, National Center for Environmental Assessment, Cincinnati, OH

Abstract #2160 in Risk Assessment 1, Tuesday Morning, March 15

Developing An In Vitro Assay To Measure Key Signaling Events In Estrogen-initiated Pathways and Guide Risk Assessment

Michelle M. Miller, Daniel L. Doheny, Pergentino Balbuena, Susan M. Ross, Chad Deisenroth, Rebecca A. Clewell, The Hamner Institutes for Health Sciences, RTP, NC

Abstract #1867 in Endocrine Toxicology, Tuesday Morning, March 15