2018 Mechanisms Specialty Section Awards Announcements
Joseph Kochmanski, University of Michigan.
Longitudinal Effects of Developmental Bisphenol A Exposure on Epigenome-wide DNA Methylation and Hydroxymethylation in Mouse Blood.

Yvonne Chang, Oregon State University.
Mechanistically Profiling PAH Biosignatures in 3D HBEC.

Ramiya Kumar, Clemson University.
Male Cyp2b9/10/13-null mice show increased susceptibility to high-fat diet induced Obesity.

Krishna Prahlad Maremanda. National Institute of Pharmaceutical Education and Research (NIPER), Mohali, India.
Zinc-deficient diet exacerbates testicular and epididymal damage by increasing oxidative stress and altering zinc, insulin, testosterone signaling in type 2 diabetic rat.

John T. Szilagyi, Rutgers University.
The Endocannabinoid Anandamide Inhibits the Fetoprotective Activity of the Placental Efflux Transporter BCRP
Ronald G. Thurman Student Travel Award

Ian Huck, University of Kansas Medical Center
Paradoxical Protective Effect of PFOA and PFOS Against High Fat Diet Induced Hepatic Steatosis In Mice

Qian Lin, University of Louisville
A novel fibroblast growth factor 1 variant reverses nonalcoholic fatty liver disease in type 2 diabetes
Postdoctoral Student Travel Award

Samantha Farber, University of North Carolina Chapel Hill
*Diesel Exhaust Particles Downregulate PI3K/Akt/mTOR Signaling and Mitochondrial Bioenergetics in A Novel Organotypic Model of the Airway Microenvironment*

Alisa Suen, ORISE US EPA
*The SIX1 oncoprotein mediates aberrant uterine basal cell development following neonatal exposure to diethylstilbestrol*
Robert J. Rubin Student Travel Award

Jalissa Nguyen Wynder, University of Wisconsin-Madison

Evaluating the Applicability of Read-across Tools and High Throughput Assays for Assessment of Toxic Chemicals
Renal Toxicology Award

1st Place: Maria Beatriz Monteiro, Harvard Medical School
A High-Throughput Screen Identifies Novel Targets for Kidney Tubular Regeneration

2nd Place: Yu-Wei Chang, Texas Tech University
Arsenic exposure induces toxicity and fibrotic changes in human kidney epithelial cells

3rd Place: Firas Alhasson, University of South Carolina
Microcystin exposure modulates NOX-2-miR21 axis in extopic glomerular toxicity in underlying nonalcoholic fatty liver disease (NAFLD)
2018 Mechanisms Career Achievement Award

Debra Laskin

- Distinguished Professor and Chair of the Department of Pharmacology and Toxicology and the Roy Bowers Endowed Chair of Pharmacy at Rutgers
- Society of Toxicology Achievement Award, SOT Board Frank R. Blood Award, The Burroughs Welcome Toxicology Scholar Award, SOT Inhalation and Respiratory Specialty Section Career Achievement Award.
- Research Interests:
  - Macrophages and acetaminophen hepatotoxicity
  - Macrophages and inflammatory mediators in lung injury by environmental pollutants
  - Macrophages and inflammatory mediators in lung injury and fibrosis by warfare agents
- Has trained 24 graduate students, 12 postdoctoral fellows, 2017 SOT Education Award
- Has over 250 publications, book chapters and reviews
- Member of ASPET, AACR, APS, many others.
Gabriel L. Plaa Education Award

1st Place:
• Jessica Hartman, Duke University
  Humanized, Transgenic Caenorhabditis elegans to Study CYP2E1-Induced Toxicity

2nd Place:
• Matthew Dodson, University of Arizona
  Arsenic Inhibits Autophagic Flux by Disrupting STX17-SNAP29-VAMP8 Complex Formation

3rd Place:
• Laura Armstrong, Rutgers University
  The Role of Hepatocyte-Specific Farnesoid X Receptor (FXR) and Lipocalin 2 (Lcn2) in the Acute Phase Response
Carl C. Smith Graduate Student Award

FINALISTS

- Gabriella Composto - Rutgers University
- Katelyn Lavrich - University of North Carolina at Chapel Hill
- Yu-Syuan Luo – Texas A&M University
- Montserrat Rojo de la Vega – University of Arizona
- Dharmin Rokad – Iowa State University
- John Szilagyi – Rutgers University
- Erica Toth – University of Arizona
Carl C. Smith Award Photos

1st Place
• Katelyn Lavrich – University of North Carolina at Chapel Hill
  • Air Pollutant 1,2-Naphthoquinone Inhibits Glycolysis through Peroxide-Mediated Protein Inactivation in Human Bronchial Epithelial Cells

2nd Place
• Dharmin Rokad – Iowa State University
  • Manganese Exposure Enhances the Release of Misfolded α-Synuclein via Exosomes by Impairing Endosomal Trafficking Machinery

3rd Place
• John Szilagyi – Rutgers University
  • The Endocannabinoid Anandamide Inhibits the Fetoprotective Activity of the Placental Efflux Transporter BCRP/ABCG2