



2018 Mechanisms Specialty Section Awards Announcements



Sheldon D. Murphy Student Travel Award



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 Maremanna. 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

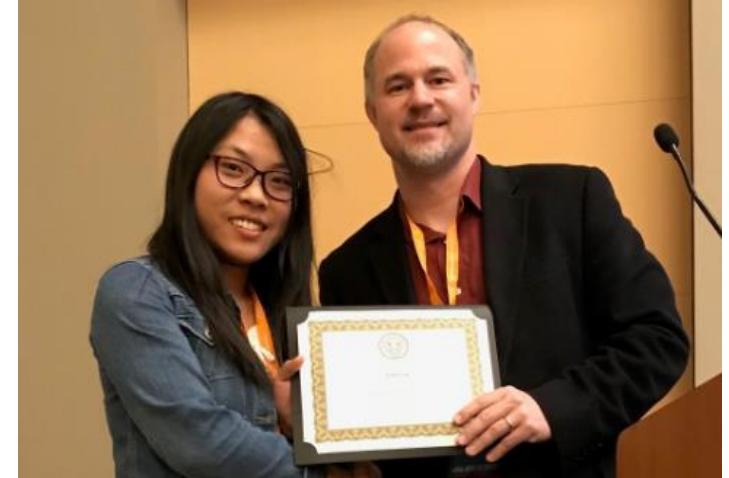
Ronald G. Thurman Student Travel Award



Left to Right: Ian Huck, President Brian Cummings



Left to Right: President Brian Cummings, Qian Lin, Ian Huck



Left to Right: Qian Lin, President Brian Cummings

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



Left to Right: Samantha Farber, Sr. Councilor
Udayan Apte



Left to Right: Samantha Farber, Sr. Councilor Udayan
Apte, Alisa Suen



Left to Right: Alisa Suen, Sr. Councilor Udayan Apte

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 oncogene mediates aberrant uterine basal cell development following neonatal exposure to diethylstilbestrol

Robert J. Rubin Student Travel Award



Left to Right: Jalissa Nguyen Wynder, Vice President
Donna Zhang



Left to Right: Vice President Donna Zhang, Jalissa Nguyen Wynder

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



Left to Right: Firas Alhasson, Yu-Wei Chang, Maria Beatriz Monteiro, VP-Elect Rhiannon Hardwick



Left to Right: Maria Beatriz Monteiro, VP-Elect Rhiannon Hardwick



Left to Right: Yu-Wei Chang, VP-Elect Rhiannon Hardwick



Left to Right: Firas Alhasson, VP-Elect Rhiannon Hardwick

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.

Left to Right: Debra Laskin, President Brian Cummings

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



Past President Angela Slitt with Winners (Left to Right): Laura Armstrong, Matthew Dodson, Jessica Hartman

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



Finalists (Left to Right): Erica Toth, Monserrat Rojo de la Vega, John Szilagyi, Yu-Syuan Luo, Katelyn Lavrich, Dharmin Rokad (not pictured: Gabriella Composto)



Carl C. Smith Award Photos



Winners (Left to Right): John Szilagyi, Katelyn Lavrich, Dharmin Rokad



Left to Right: Katelyn Lavrich, Sr.
Councilor Udayan Apte



Left to Right: Dharmin Rokad, Sr.
Councilor Udayan Apte



Left to Right: John Szilagyi, Sr.
Councilor Udayan Apte

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*