



Mountain West Regional Chapter Society of Toxicology

44th Annual Meeting of the Mountain West Society of Toxicology

Safeguarding Tomorrow: Advancing Toxicology for Early Life and Future Generations

The University of Arizona, Tucson, AZ

Tuesday, August 11

- 6:00–7:00 PM Registration Check-In & Badge Pickup **[The Graduate Hotel Lobby]**
- 7:00–9:00 PM Optional Welcome Social **[The Moonstone, Hotel Rooftop Bar]**

Wednesday, August 12 – [Kachina Room, Third Floor Student Union]

- 7:00–8:00 AM Badge Pickup and Breakfast (*food available until 9:00 AM*)
- 8:00–8:20 AM *Welcome & Opening Remarks –*
- Sebastian Medina**, MWSOT President, University of New Mexico
Nathan Cherrington, College of Pharmacy, University of Arizona
Jon Chorover, College of Agriculture, Life & Environmental Sciences,
The University of Arizona
- 8:25–8:40 AM *MWSOT Legacy Award –*
- Introduced by: **Dr. Nathan Cherrington**, The University of Arizona
Awarded to: **Dr. Jay Gandolfi**, The University of Arizona

Plenary Session I: The Future of Toxicology

Session Chair: *Zelieann R. Craig, PhD, The University of Arizona*

- 8:50–9:15 AM *Pregnancy exposure to 10 classes of priority chemicals in the ECHO Cohort: associations with birth outcomes and dietary guideline adherence*
- Diana Pacyga, PhD**; The University of Arizona

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- 9:20–9:45 AM** *Prenatal Dibutyl Phthalate Exposure Dysregulates Fetal-Placental Vascular Function and Placental Vasculature-Specific Lipid Metabolism*
Chi Zhou, PhD; The University of Arizona
- 9:50–10:15 AM** *Data Sharing for New Approach Methodologies: What is metadata and why is it important?*
Karen Watanabe, PhD; Arizona State University
- 10:20–10:30 AM** *Stratifying mouse ovarian follicle growth dynamics to inform computational models of folliculogenesis and environmental toxicant disruption*
Miely Suarez; The University of Arizona
- 10:35–10:45 AM** Break & Light Refreshments

Plenary Session II: Immunotoxicology

Session Chair: Sebastian Medina, PhD, University of New Mexico

- 10:45–11:00 AM** *Tungsten and Cardiometabolic Disease: Bridging Epidemiology and Mechanistic Insights*
Alicia Bolt, PhD; University of New Mexico
- 11:05–11:15 AM** *Trichloroethylene metabolite promotes autoimmune-relevant metabolic changes in CD4+ T cells*
Hayley Wondra; University of New Mexico
- 11:20–11:30 AM** *Differential Effects of Uranium and Coal Mine Dust Exposure on Innate Immune Function In Vitro and In Humans*
Katie Zychowski, PhD; University of New Mexico
- 11:35–11:45 AM** *Inhaled Agricultural Dust Exposure Precedes Proximal Tubular Transporter Dysregulation and Immune Cell Depletion in the Kidney: Relevance to CKDu*
Matthew Gibb, PhD; University of Colorado Anschutz Medical Campus
- 11:50 AM–12:00 PM** *Wildfire Smoke as a Driver of Neurological Aging and Injury*
Ember Suh; University of New Mexico
- 12:05–12:15 PM** *Juvenile manganese exposure potentiates dopaminergic neurodegeneration resulting from encephalitic arbovirus infection via astrocyte-mediated inflammatory signaling*
Aidan Briggs; Barrow Neurological Institute

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12:20–1:30 PM Lunch (*Provided*)
Optional Trainee Event (Career Roundtables) at Sabino Room

Plenary Session III: Neurotoxicology

Session Chair: *Kara Miller, PhD, The University of Arizona*

1:40–2:00 PM *Manganese as a modulator of innate immunity in the brain*
Ronald Tjalkens, PhD; Barrow Neurological Institute

2:05–2:15 PM *Glyphosate at the Human-Equivalent EPA Chronic Reference Dose Alters the Gut–Brain Axis and Exacerbates Alzheimer's Disease Pathogenesis in mice*
William Gendron, PhD; Arizona State University

2:20–2:30 PM *Global STING knockout rescues male-specific gait and nigrostriatal neurochemical decrements in mice subjected to the juvenile Manganese model of Parkinson's disease*
Abigail Bibb; Barrow Neurological Institute

2:35–2:45 PM *Genetic STING ablation attenuates astrocyte-mediated inflammation, neurotoxicity and motor dysfunction in the rotenone model of Parkinson's disease*
Adam Schuller, PhD; Barrow Neurological Institute

2:50–3:00 PM *Neurological Signatures of PFAS in multi-OMIC platforms*
Melissa Furlong, PhD; The University of Arizona

3:05–3:25 PM Break & Light Refreshments

Plenary Session IV: Reproductive and Metabolic Toxicology

Session Chair: *Katie Zychowski, PhD, University of New Mexico*

3:40–4:00 PM *Sex Differences in Phthalate Metabolism and Reproductive Toxicity*
Estela Jauregui, PhD; Midwestern University

4:05–4:15 PM *Lipid Dysregulation in Mouse Ovarian Antral Follicles After Oral Exposure to a Human Relevant Mixture of Three Phthalates*
Kara Miller, PhD; The University of Arizona

4:20–4:30 PM *Integrating Toxicokinetic, Mechanistic, and Epidemiologic Evidence to Evaluate the Estrogenic Potential of Methylparaben and Propylparaben*

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	Kylie Jones ; Aetia Scientific Collaborative
4:35–4:45 PM	<i>Hepatic Transporter Dysfunction as an Early Indicator of Metabolic Dysfunction and Alcohol-Associated Liver Disease Progression</i> Alexis Cruickshank-Taylor ; The University of Arizona
4:50–5:30 PM	Social Break and Relocation to Bear Down Gym for Posters
5:30–7:30 PM	Poster Session & Light Reception [Bear Down Court, Bear Down Gym] <i>Refreshments available at 5:15 PM for presenters</i>
7:30 PM	Dinner (On Your Own)

Thursday, August 13 – [Kachina Room, Third Floor Student Union]

7:00–8:00 AM	Badge Pick-Up & Breakfast (<i>food available until 9:00 AM</i>)
8:00–8:30 AM	Opening Remarks & Yost/Burchiel Award

Plenary Session V: Community Engaged Research

Session Chair: *Zelieann Craig, PhD, The University of Arizona*

8:35–9:10 AM	<i>Community-Engaged Research with Firefighters</i> Jeff Burgess, PhD ; The University of Arizona Captain John Gulotta (retired); First Responders Center for Excellence (FRCE)
9:10–9:30 AM	<i>Community-Engaged Research with Firefighters, Q&A</i> Jeff Burgess, PhD ; The University of Arizona Captain John Gulotta (retired); First Responders Center for Excellence (FRCE)
9:35–9:45 AM	<i>Building resilience together: Community science for understanding co-exposures and compounding environmental threats</i> Mónica Ramírez-Andreotta, PhD ; The University of Arizona
9:50–10:00 AM	<i>From data to action: Co-producing water quality research with a rural, Indigenous Arizona community</i> Anupama Sethuraman ; The University of Arizona
10:05–10:25 AM	Break

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Plenary Session VI: Systems & Mechanistic Toxicology

Session Chair: *Nathan Cherrington, PhD, The University of Arizona*

- 10:35–10:55 AM** *PFAS inhibition of retinoic acid metabolism and signaling: a novel mechanism for developmental toxicity*
Jed Lampe, PhD; University of Colorado Anschutz Medical Campus
- 11:00–11:10 AM** *Impacts of Heat Strain on ADME Function*
Paxton Sample; The University of Arizona
- 11:15–11:25 AM** *Mechanistic Evaluation of Ezetimibe-Glucuronide as a Functional Probe in Chronic Liver Disease*
Dominique Farrera, PhD; The University of Arizona
- 11:30–11:40 AM** *Investigating the Impact of Lithium Exposure on Gut Microbiota*
Caroline Ho; Arizona State University
- 11:45–11:55 AM** *Nuclear Receptor Coactivator 4 Restricts Mitochondrial Iron Signaling by Controlling Intracellular Iron Partitioning*
Xiang Xue, PhD; University of New Mexico

Plenary Session VII: Risk Assessment

Session Chair: *Sebastian Medina, PhD, University of New Mexico*

- 12:05–12:15 PM** *Comparing US National Databases to Examine Health Risks Near Los Alamos National Laboratory*
Chanese Forte, PhD; Union of Concerned Scientists
- 12:20–12:30 PM** Final Remarks & Trainee Presentation Awards
Sebastian Medina, PhD; MWSOT President, University of New Mexico
Zelieann Craig, PhD; MWSOT Vice President, University of Arizona
Julie Moreno, PhD; MWSOT Vice President-Elect, Colorado State University
- 12:30 PM** Lunch (*On Your Own*) and Departures

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