

Central States
Regional Chapter
of the Society of Toxicology



2025 Annual Meeting

**Environmental Toxins, Drugs, and Alcohol in
Human Health and Diseases**

October 9th and 10th, 2025

University of Kansas Medical Center

Kansas City, Kansas



SOT | Society of
Toxicology

Creating a Safer and Healthier World by Advancing
the Science and Increasing the Impact of Toxicology

KU

Pharmacology, Toxicology &
Therapeutics

**MEDICAL
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CANCER CENTER

Society of Toxicology
Central States Regional Chapter of
SOT 2025 Annual Fall Meeting

Environmental Toxins, Drugs, and Alcohol in Human Health and Diseases
October 9-10, 2025

Ad Astra room, Health Education Building
 University of Kansas Medical Center, Kansas City, Kansas 66160

Agenda

Thursday, October 9, 2025

Time	Event
4:00 PM to 5:15 PM	Registration and Poster Setup
5:15 PM to 5:30 PM	Welcome Note Dr. Hongmin Ni , CSSOT President, Pharmacology, Toxicology and Therapeutics, University of Kansas Medical Center
5:30 PM to 6:30 PM	Keynote Presentation Dr. Xinxin Ding , Dept. head and professor of Pharmacology and Toxicology, University of Arizona Metabolic Mechanisms of Chemical Toxicity – Reactive Metabolites (Moderator: Dr. Hongmin Ni)
6:30 PM to 9:00 PM	Dinner and Social Interaction

Friday, October 10, 2025

Time	Event
8:00 AM to 8:30 AM	Registration and Breakfast
8:30 AM to 9:30 AM	John Doull Award Presentation Dr. Aileen Keating , Professor of Animal Science, Iowa State University Stacked Stress: Influencers of Ovarian Toxicity (Moderator: Dr. Udayan Apte)
9:30 AM to 10:06 AM	Trainee Session I (12 min each) <i>Moderator: Kendra L. Clark</i> <ol style="list-style-type: none"> 1. Muhammet Enes Erol (PhD student, University of Nebraska) Role of NADPH Oxidase activation in Cigarette Smoke Induced-Mitochondrial Dysregulation in Skeletal Muscle. 2. Md Abu Ebrahim Siddique (PhD student, Univ. of Iowa) Exosomal miRNA Profiles Identify Resolving versus Non-Resolving Pulmonary Inflammation Following Nanoparticle Exposure. 3. Kaitlyn Venneman (PhD student, Univ. of Kansas Medical Center) Divergent Estrogen Receptor Alpha (ERα) Activation Distinguishes Hepatic Responses to Diethylstilbestrol and 17β-Estradiol in Male Rats.

10:06 AM to 10:20 AM	Break
10:20 AM to 12:00 AM	<p>Trainee Session II (12 min) <i>Moderator: Dr. Peter Thorne and Anup Ramachandran</i></p> <ol style="list-style-type: none"> 4. Nousha Sabet (PhD student, University of Nebraska Medical Center) Extracellular vesicles from alcohol-exposed hepatocytes increase CYP2E1 expression in airway cells, leading to reduced mucociliary clearance. 5. Cassidy Kline (PhD student, Univ. of Iowa) Investigating chlorpromazine as a potential protectant against cadmium-induced toxicity in cardiomyocytes. 6. Khue Nguyen (PhD student, Univ. of Kansas Medical Center) Loss of hepatic Vacuole membrane protein 1 protects against acetaminophen-induced liver injury. 7. Danae Greig (PhD student, University of Nebraska) PFOS and Mitochondrial Function: Unveiling an Inert Molecule's Metabolic Disruption. 8. Chen Zhang (PhD student, Univ. of Kansas Medical Center) Loss of hepatic lipid transporter protein VPS13D promotes alcohol-associated steatosis and liver injury in mice. 9. Kshitij Deshmukh (PhD student, University of Iowa). Regulation of Hepatic De Novo Lipogenesis by the Mitochondrial Dicarboxylate Carrier. 10. Diego Chavez (PhD student, Univ. of Kansas Medical Center) Immune Cell Clearance and Acetaminophen Induced Acute Liver Failure. 11. Changyong Lee (Post-doctoral fellow, Univ. of Nebraska Medical Center) Integrative Network and Experimental Insights into Kaempferol's Protection against PFDA-Induced Granulosa Cell Dysfunction.
12:00 PM to 1:00 PM	Lunch with Networking Session
1:00 PM to 2:45 PM	Poster Session
2:45 PM to 3:00 PM	Break (posters need to be taken down)
3:00 PM to 3:30 PM	<p>Invited talk Dr. Carol Casey, Professor, Division of Gastroenterology and Hepatology, University of Nebraska Medical Center Alcohol and Lipid Traffic Don't Mix Moderator: Dr. Wen-Xing Ding</p>
3:30 PM to 4:00 PM	Award ceremony and adjournment

Presentations

Last Name	Name	Title	Presentation
Adetoba	Mojirade	Dietary PFAS exposure among Infants: A review of sources, analytical methods, regional variations, intake and risk	Poster #1
Ahamed	Forkan	Targeting Apoptosis-Mediated Kidney Injury to Improve Survival After Acetaminophen Overdose	Poster #2
Bajracharya	Alisha	Palmitoylation of the Na ⁺ /taurocholate cotransporting polypeptide (NTCP)	Poster #3
Breese	Nicole	Sex-Specific Hepatic Responses after 7-Week Oral Exposure to a Human-Relevant Polychlorinated Biphenyl Mixture in Mice	Poster #4
Chavez	Diego	Immune Cell Clearance and Acetaminophen Induced Acute Liver Failure	Oral #10
Das	Sreyoshi	Quinolines: a novel therapeutic agent for Pancreatic Cancer	Poster #5
Da-silva	Oluwatobiloba F.	Diphenyl Diselenide Counteracts Doxorubicin-Induced Neurotoxicity Via Antioxidant, Anti-inflammatory and Anti-apoptotic Mechanisms: Implications as a Neuroprotective Agent in Chemotherapy	Poster #6
Deshmukh	Kshitij	Regulation of Hepatic De Novo Lipogenesis by the Mitochondrial Dicarboxylate Carrier	Oral #9
Erol	Muhammet Enes	Role of NADPH Oxidase activation in Cigarette Smoke Induced-Mitochondrial Dysregulation in Skeletal Muscle	Oral #11
Ethiraj	Ojeshvi	Chronic alcohol consumption lowers Liver-Expressed Anti-microbial Peptide (LEAP2) levels: Linking metabolic disruptions to Alcohol-associated Liver Disease (ALD)	Poster #7
Farah	Tasfia	Impact of Ascorbate on Metabolic Inhibition in MYCN-Amplified and Non-Amplified Neuroblastoma Cells	Poster #8
Etemadi	Yasaman	Selective prevention of liver injury after acetaminophen overdose aggravates renal injury	Poster #9
Garcia-Mares	Michael	Astrocytes and Microglia Reveal Unique Polychlorinated Biphenyl Neurotoxicity	Poster #10
Ghorab	Rasha	Adolescent Exposure to a Per- and Polyfluoroalkyl Substances (PFAS) Mixture Disrupts Estrous Cyclicity in Mice	Poster #11
Greig	Danae	PFOS and Mitochondrial Function: Unveiling an Inert Molecule's Metabolic Disruption	Oral #7
Hogerty	Carolina	Intestinal Adverse Effects of Glucagon-like peptide-1 (GLP-1) Receptor Agonist in Mice	Poster #12
Jones	Elizabeth	Targeting HuR-mediated mRNA decay protects mice against diethylnitrosamine-induced liver carcinogenesis	Poster #13
Kirillov	Ana	Identification and sequencing of glutathione transferase transcripts in cats	Poster #14

Kline	Cassidy	Investigating chlorpromazine as a potential protectant against cadmium-induced toxicity in cardiomyocytes	Oral #5
Lee	Changyong	Integrative Network and Experimental Insights into Kaempferol's Protection against PFDA-Induced Granulosa Cell Dysfunction	Oral #1
Lee	Dongkeun	Inhaled Copper Nanoparticles Induce Pulmonary Inflammation, Blood-Brain Barrier Leakage, and Brain Accumulation in a Late-Onset Alzheimer's Disease Mouse Model	Poster #15
Li	Xueshu	Untargeted Metabolomics Reveals Neurochemical Pathways Altered by PCB and PFAS Accumulation in the Human Brain	Poster #16
McKimens	Caylie	Using the Competitive Counterflow Assay to characterize OATP-mediated transport of Perfluorinated Alkyl Substances (PFAS)	Poster #17
Nguyen	Khue	Loss of hepatic Vacuole membrane protein 1 protects against acetaminophen-induced liver injury	Oral #6
Paine-Cabrera	Diego	Hepatocyte-Specific Early Growth Response 1 Promotes Injury and Lipid Accumulation in the CDE Diet Model of Liver Disease	Poster #18
Pavlovic	Milica	Acute Polyamide Micro- and nanoplastic Aerosol Exposure Alters Ciliary Motility and Mucus Secretion. in Primary Human Bronchial Epithelial Cells	Poster #19
Preston	Sarah E.	Modulation of Organophosphate Metabolism and Toxicity via NRF2 Signaling	Poster #20
Sabet	Nousha	Extracellular vesicles from alcohol-exposed hepatocytes increase CYP2E1 expression in airway cells, leading to reduced mucociliary clearance	Oral #4
Siddique	Md Abu Ebrahim	Exosomal miRNA Profiles Identify Resolving versus Non-Resolving Pulmonary Inflammation Following Nanoparticle Exposure	Oral #2
Varanasi	Nivriti	Activities of 5 plant extracts against prostate cancer stem cells	Poster #21
Venneman	Kaitlyn	Divergent Estrogen Receptor Alpha (ER α) Activation Distinguishes Hepatic Responses to Diethylstilbestrol and 17 β -Estradiol in Male Rats	Oral #3
Wang	Weiran	Intestinal Damage in Alcohol-Associated Liver Disease is Mediated by Bile Acid Intermediates Resulting from Alcohol-Induced Hepatic Peroxisomal Dysfunction	Poster #22
Wei	Xiaoli	TFEB, YAP/TAZ, and HNF4 α as Therapeutic Targets Revealed by the <i>Tsc1</i> -Deficient Gao-Binge Mouse Model of Alcoholic Hepatitis	Poster #23
Williams	Sha Neisha	Alcohol impairs TFEB-mediated autophagy while exacerbating inflammatory response in the aged liver	Poster #24
Zhang	Chen	Loss of hepatic lipid transporter protein VPS13D promotes alcohol-associated steatosis and liver injury in mice	Oral #8
Zhu	Hualong	Lack of Hepatic STEAP4 impairs liver regeneration due to increased lysosomal iron accumulation and dysfunction in acetaminophen-induced liver injury in mice	Poster #25