



62nd Annual Meeting & ToxExpo
Nashville, TN • March 19–23, 2023

Saturday, March 18

Special Events

5:00 PM		
5:30 PM	Undergraduate Diversity Program <i>(by invitation only)</i>	
6:00 PM		
6:30 PM		
7:00 PM		
7:30 PM	Committee on Diversity Initiatives Reunion <i>(open to all)</i>	
8:00 PM		
8:30 PM		
9:00 PM		

Sunday, March 19

Special Events

Featured and Scientific

7:00 AM		Sunrise CE Minicourse <i>(separate registration and fee)</i>		
7:30 AM	Undergrad Research Award Welcome <i>(by invitation only)</i>			
8:00 AM	Undergraduate Education Program <i>(free, undergraduates only, separate registration required)</i>			
8:30 AM				
9:00 AM				
9:30 AM				
10:00 AM				
10:30 AM				
11:00 AM				
11:30 AM				
12:00 Noon				
12:30 PM				
1:00 PM				
1:30 PM				
2:00 PM				
2:30 PM				
3:00 PM	Continuing Education Courses <i>(separate registration and fee)</i>			
3:30 PM				
4:00 PM				
4:30 PM				
5:00 PM				
5:30 PM				
6:00 PM				
6:30 PM to 10:00 PM			Multiple Receptions	
			SOT Awards Ceremony	

**SUNDAY
March 19**

7:00 AM 7:30 AM 8:00 AM 8:30 AM 9:00 AM 9:30 AM 10:00 AM 10:30 AM 11:00 PM 11:30 PM 12:00 Noon 12:30 PM 1:00 PM 1:30 PM 2:00 PM 2:30 PM 3:00 PM 3:30 PM 4:00 PM 4:30 PM 5:00 PM 5:30 PM

CONTINUING EDUCATION COURSES

Karl Dean Ballroom B1				AM03: Advanced Discovery Toxicology: Integrating Toxicology with Other Functions on the Team								PM09: Immunosafety: Current Considerations and Applications in the Landscape of Immunomodulatory Therapies							
Karl Dean Ballroom C1				AM06: Tools Supporting Open Chemical Evaluations								PM10: <i>In Vitro</i> to <i>In Vivo</i> Extrapolation Strategy and Guidance across Organ System Toxicities							
Room 202				AM07: Unique Applications of Systematic Review Methods: Assessment of Ecotoxicity, Environmental Fate, Exposure, Mechanisms, and Comparison of Test Methods								PM11: Inhalation Drug Development: Back to Basics							
Room 205	SR01: An Intro to Clinical & Medical Toxicology			AM02: A Training on the OECD Guidance for Characterizing, Validating, and Reporting Physiologically Based Kinetic Models								PM12: Making the Most of Your Data: How to Build Machine-Learning Models for Toxicology							
Room 207B				AM04: Beyond the Powerhouse: Investigating Mechanisms of Mitotoxicity								PM08: Checking In on Adverse Outcome Pathways: Evolving Development, Evaluation, and Application							
Room 209				AM05: Nontraditional <i>In Vivo</i> Animal Models in Developmental, Reproductive, and Juvenile Toxicology								PM13: Put Your Science Where Your Mouth Is: Practice Makes Progress in Effective Science Communication							

Monday, March 20

Special Events

ALL-DAY EVENTS: Research Funding Insights Room; Tiny Tox Talks; Undergraduate Diversity Program

7:00 AM

SOT Mentoring Breakfast
(begins at 6:15 AM)

Featured and Scientific Sessions

Poster Sessions

Exhibitor-Hosted Sessions

7:30 AM

8:00 AM

8:30 AM

Opening Plenary Session
“Advancing Single Cell Technologies in Toxicology”
Speaker: Namandjé N. Bumpus, Chief Scientist, US FDA

9:00 AM

ToxExpo Exhibits / Posters Displayed

Trainee Event with Dr. Bumpus
(seat reservation required)

Global Collaboration Coffee

Scientific Sessions
(see next page for session titles)

Translational Impact Award Lecture

Author-Attended Poster Sessions
(see next page for Poster Session topics)

Exhibitor-Hosted Sessions
(see next page for hosts)

9:30 AM

10:00 AM

10:30 AM

11:00 AM

11:30 AM

12:00 Noon

12:30 PM

1:00 PM

1:30 PM

2:00 PM

2:30 PM

3:00 PM

3:30 PM

4:00 PM

Research Funding Insights Session

SOT Component Group Events
(see Online Planner for details)

Scientific Sessions
(see next page for session titles)

In Vitro Lecture and Luncheon
(add-on event)

Merit Award Lecture
(begins at 12:30 PM)

Author-Attended Poster Sessions
(see next page for Poster Session topics)

Exhibitor-Hosted Sessions
(see next page for hosts)

Exhibitor-Hosted Sessions
(see next page for hosts)

Exhibitor-Hosted Sessions
(see next page for hosts)

4:30 PM

5:00 PM

5:30 PM

6:00 PM

6:30 PM

to

9:30 PM

SOT Component Group Events
(see Online Planner for details)

Undergraduate Educator Network Meeting
ToxMSDT E-Learning Development Teams Meeting

Scientific Session
(see next page for session title)

SOT/ EUROTOX Debate

Author-Attended Poster Sessions
(see next page for Poster Session topics)

Exhibitor-Hosted Sessions
(see next page for hosts)

**MONDAY
March 20**

8:00 AM 8:30 AM 9:00 AM 9:30 AM 10:00 AM 10:30 AM 11:00 AM 11:30 AM 12:00 Noon 12:30 PM 1:00 PM 1:30 PM 2:00 PM 2:30 PM 3:00 PM 3:30 PM 4:00 PM 4:30 PM 5:00 PM 5:30 PM 6:00 PM

Scientific and Featured Sessions

**Opening Plenary Session "Advancing Single Cell Technologies in Toxicology"
Speaker: Namandjé N. Bumpus, US FDA**

Karl Dean Ballroom A1

SYMPOSIUM [IAT] • House on Fire: Chemistry and Toxicology of Structural Fire Smoke at the Wildland Urban Interface

ROUNDTABLE • A Transformative Vision for an 'Omics-Based Regulatory Chemical Testing Paradigm

SYMPOSIUM • Playing with Fire: Human Exposure, Health Risks, and Safer Design of Flame Retardants

Karl Dean Ballroom A2

SYMPOSIUM • Microplastics: Factors to Consider When Assessing Potential Environmental and Human Health Risks

MERIT AWARD LECTURE • Mechanisms Matter: Deriving...

FEATURED • SOT/EUROTOX Debate: The Exposome Will Drastically Change the Practice of Toxicology

Karl Dean Ballroom B1

SYMPOSIUM • AI Buzz or Bliss: Case Studies for Successful Applications of Artificial Intelligence in Predictive Toxicology

INFORMATIONAL • Toxicology, Translational, and Regulatory Considerations of Antisense Oligonucleotides ...

SYMPOSIUM • Using a Toxic Aging Coin to Investigate the Intersection of Toxicology and Aging: Heads for Age Differences, Tails for Gerontogens

Karl Dean Ballroom C1

WORKSHOP • Drug-Induced Liver Injury: Challenges and Opportunities to Predict and Measure the Hepatotoxic Potential of Therapeutic Agents in Early and Late Phases of Drug Development and after Marketing

SYMPOSIUM • Placenta as a Target of Environmental Exposures: From Bench to Society

EDUCATION-CAREER DEVELOPMENT • Leader's Digest: The Art of Scientific Leadership

Room 201

TRANSLATIONAL IMPACT AWARD LECTURE • Womb with a View: The...

Room 202

WORKSHOP • Biocompatibility Assessment of Absorbable/Degradable Materials Employed in Medical Devices: Challenges, Pitfalls, and Emerging Testing Methods

ROUNDTABLE • OK, Google, "How Do I Science?" Roles and Responsibilities of Developers ...

WORKSHOP • Establishing Scientific Confidence in New Approach Methods: A Modern Framework

Room 205

SYMPOSIUM • Mechanistic Insights on Gene x Environment Interactions in Autism

SYMPOSIUM • New Approach Methodologies to Evaluate Botanical Safety

Room 207B

WORKSHOP • Understanding the Concept of Similarity and Its Applications to Toxicological Research and Risk Assessment

ROUNDTABLE • Evaluating and Rethinking the Use of Dogs in Agrochemical Evaluation and Registration

Room 209

PLATFORM • Exploring Time and Cell Diversity in Toxicogenomics Space

SYMPOSIUM • Humanized Mouse Models for Preclinical Evaluation of CAR T Cells

Room 101A

AnaBios WuXi AppTec ToxStrategies Vivo Bio Tech Limited NIEHS

Room 101B

Fraunhofer ITEM Lhasa Limited Agilent Technologies Novotech Promega Corporation

Room 101C

Evotec SynVivo Instem Discovery Life Sciences Inotiv

Room 101D

Scientist.com Charles River and Eli Lilly Labcorp Marshall BioResources Charles River

Exhibitor-Hosted Sessions

Exhibit Hall

- Alternatives to Mammalian Models I
- Animal Models
- Carcinogenicity
- Cardiovascular Toxicology/Hemodynamics
- Endocrine Toxicology
- Epidemiology and Public Health
- Metals I
- Regulation/Policy
- Reproductive and Developmental Toxicology I
- Biotransformation/Cytochrome P450
- Chemical Threats and Bioterrorism
- DNA Damage and Repair
- Ocular Toxicology
- Receptors
- Reproductive and Developmental Toxicology II
- Safety Evaluation of Nonpharmaceutical Products
- Stem Cell Biology and Toxicology

- Air Pollution Toxicology I
- Computational Toxicology I
- Drugs of Abuse
- Risk Assessment I
- Safety Assessment: Pharmaceutical—Drug Development I
- Safety Assessment: Pharmaceutical—Drug Discovery
- Tobacco and ENDS Toxicology I
- Tobacco and ENDS Toxicology

Tuesday, March 21

Special Events

Featured and Scientific Sessions

Poster Sessions

Exhibitor-Hosted

7:00 AM
7:30 AM
8:00 AM
8:30 AM
9:00 AM
9:30 AM
10:00 AM
10:30 AM
11:00 AM
11:30 AM
12:00 Noon
12:30 PM
1:00 PM
1:30 PM
2:00 PM
2:30 PM
3:00 PM
3:30 PM
4:00 PM
4:30 PM
5:00 PM
5:30 PM
6:00 PM
6:30 PM to 10:00 PM

ToxExpo Exhibits / Posters Displayed

ALL-DAY EVENTS:
Research Funding Insights Room (9:30 AM to 1:00 PM) ; Tiny Tox Talks (times vary)

SOT Component Group Events
(see Online Planner for details)

Scientific Sessions
(see next page for session titles)

SOT/JSOT Symposium Session

Author-Attended Poster Sessions
(see next page for Poster Session topics)

Exhibitor-Hosted Sessions
(see next page for hosts)

InTOXicating Science Talks

Postdoctoral Assembly Luncheon
(starts at 12:00 Noon)

SOT Component Group Events
(see Online Planner for details)

Scientific Sessions (see next page for session titles)

Distinguished Toxicology Scholar Award Lecture

Author-Attended Poster Sessions
(see next page for Poster Session topics)

Exhibitor-Hosted Sessions
(see next page for hosts)

Career Exploration through Speed Informational Interviews

Undergrad Gab with a Grad over Grub (starts at 12:30 PM)

Scientific Sessions (see next page for session titles)

Meet the Directors (ends at 3:45 PM)

AACT Symposium (ends at 2:00 PM)

ToxSci Featured Session (ends at 2:30 PM)

Author-Attended Poster Sessions
(see next page for Poster Session topics)

Exhibitor-Hosted Sessions
(see next page for hosts)

Exhibitor-Hosted Sessions
(see next page for hosts)

Scientific Sessions (see next page for session titles)

Exhibitor-Hosted Sessions
(see next page for hosts)

SOT Component Group Events
(see Online Planner for details)

SOT Annual Business Meeting

Exhibitor-Hosted Sessions
(see next page for hosts)

Tox ShowDown (7:30 PM to 9:00 PM)

Wednesday, March 22

Special Events

Featured and Scientific Sessions

Poster Sessions

Exhibitor-Hosted

ALL-DAY EVENTS: Research Funding Insights Room (9:30 AM to 3:30 PM) ; Tiny Tox Talks (times vary)

Scientific Sessions
(see next page for session titles)

Author-Attended Poster Sessions
(see next page for Poster Session topics)

Exhibitor-Hosted Sessions
(see next page for hosts)

ToxExpo Exhibits / Posters Displayed

SOT Component Group Events
(see Online Planner for details)

Scientific Sessions (see next page for session titles)

EUROTOX Award Lecture

Author-Attended Poster Sessions
(see next page for Poster Session topics)

Exhibitor-Hosted Sessions
(see next page for hosts)

Keynote Medical Research Council (MRC) Lecture

Exhibitor-Hosted Sessions
(see next page for hosts)

Trainee Discussion with Dr. Rawlins
(seat reservation required)

Scientific Sessions
(see next page for session titles)

Author-Attended Poster Sessions
(see next page for Poster Session topics)

Exhibitor-Hosted Sessions
(see next page for hosts)

SOT Component Group Events
(see Online Planner for details)

President's Reception (by invitation only)

Exhibitor-Hosted Sessions
(see next page for hosts)

**WEDNESDAY
March 22**

8:00 AM 8:30 AM 9:00 AM 9:30 AM 10:00 AM 10:30 AM 11:00 AM 11:30 AM 12:00 Noon 12:30 PM 1:00 PM 1:30 PM 2:00 PM 2:30 PM 3:00 PM 3:30 PM 4:00 PM 4:30 PM 5:00 PM 5:30 PM 6:00 PM

Scientific and Featured Sessions

Karl Dean Ballroom A1	WORKSHOP • Shedding Light on Population Variability and Susceptibility: New Approach Methods to Inform Risk Assessment	INFORMATIONAL • Evidence-Based Methods in Toxicology: Progress in the Past Decade and Collaborative Projections ...	WORKSHOP • New Approach Methodologies in the Pharmaceutical Sciences: Novel Strategies Challenging the Traditional Testing Paradigm to Increase Regulatory Confidence
Karl Dean Ballroom A2	SYMPOSIUM • Metals Matter: The Potential Effects of Metal-Mediated Cell Death in the Pathogenesis of Cardiopulmonary Diseases		FEATURED • MRC Lecture: Modeling Human Lung Development Using Organoid Technology
Karl Dean Ballroom B1	SYMPOSIUM • Human Cells as Nonanimal Alternative Approaches for Immunotoxicity Testing	FEATURED • EUROTOX Award Lecture: Reconstructed Human 3D Tissue Models ...	SYMPOSIUM • Tackling the Challenge of Assessing Human-Relevant Thyroid Disruption
Karl Dean Ballroom C1	WORKSHOP • Moving Stem Cell-Derived New Approach Methods toward Regulatory Acceptance		WORKSHOP • Safety Assessment Approaches for Stem Cell Therapy
Room 201	WORKSHOP • Peer Reviewing for Scholarly Journals: Best Practices, Tips, and Case Studies		PLATFORM • Mechanisms of Pneumotoxicity: Air Pollutants, ENDS, and Ozone
Room 202	WORKSHOP [IAT] • Targeted Protein Degradation Therapeutics: Opportunities and Challenges	EDUCATION-CAREER DEVELOPMENT • A Day in the Life of an Industry Toxicologist	SYMPOSIUM • Opening Our Eyes: Ocular Gene Therapies from Theory to Practice
Room 205	SYMPOSIUM • Expanding Our Knowledge of Neurological Disease Etiologies: Current Research on the Neural Exposome		SYMPOSIUM • Toxicology 2.0: Moving from Reductionist to Holistic Paradigms
Room 207B	SYMPOSIUM • The Future of Fire Safety: Exploring the Intersection of Wildfires and Human Health		SYMPOSIUM • Epitranscriptomic Mechanism of Metal Toxicity and Carcinogenesis
Room 209	WORKSHOP • Cancers, Chemicals, and the Microbiome	ROUNDTABLE • 21st-Century Agrochemical Evaluation: Discussing a New Vision	WORKSHOP • Grappling with the Grim Reaper: Epigenetics of Aging

Exhibitor-Hosted Sessions	Room 101A	Altasciences	LifeNet Health LifeSciences	Simulations Plus	US FDA	BBD BioPhenix SLU - Biobide
	Room 101B	WuXi AppTec	ITR Laboratories Canada	SCIREQ and emka TECHNOLOGIES	emka TECHNOLOGIES	
	Room 101C	Inotiv	Lhasa Limited	InSphero	Altis Biosystems	
	Room 101D	BioIVT	Stemina Biomarker Discovery	Instem	BASi Research Products	Charles River

Poster Sessions	Exhibit Hall	<ul style="list-style-type: none"> • Air Pollution Toxicology II • Biological Modeling • Mixtures • Nanotoxicology: <i>In Vitro</i> • Nanotoxicology: <i>In Vivo</i> • Oxidative Injury and Redox Biology 	<ul style="list-style-type: none"> • Air Pollution Toxicology III • Emerging Technologies • Kidney • Medical Devices • Natural Products • PFAS II • POPs • Skin and Dermal Toxicity 	<ul style="list-style-type: none"> • Clinical and Translational Toxicology • Ecotoxicology • Liver I: <i>In Vivo</i> • Liver II: <i>In Vitro</i> • Neurotoxicity: Metals • Neurotoxicity: Pesticides • Pesticides • Respiratory Toxicology I • Respiratory Toxicology II • Risk Assessment III
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Thursday, March 23

Featured Sessions

Scientific Sessions

Poster Sessions

7:00 AM

7:30 AM

8:00 AM

8:30 AM

9:00 AM

9:30 AM

10:00 AM

10:30 AM

11:00 AM

11:30 AM

12:00 Noon

**Hot Topic
Session**

**Scientific
Sessions** *(see
next page for
session titles)*

**Late-Breaking
Poster
Sessions**
*(see next page
for Poster
Session topics)*

**THURSDAY
March 23**

8:00 AM

8:30 AM

9:00 AM

9:30 AM

10:00 AM

10:30 AM

11:00 AM

11:30 AM

12:00 Noon

Scientific and Featured Sessions

Karl Dean
Ballroom A1

WORKSHOP • Emerging Environmental Contaminants and Issues of Concern: Developing Toxicologic Strategies to Identify and Address Tomorrow’s Public Health Issues

Karl Dean
Ballroom A2

WORKSHOP [IAT] • Cannabis Contaminants: Current Status of Regulations and Implications to Public Health

Karl Dean
Ballroom B1

SYMPOSIUM • What’s All the Buzz about Tungsten?

Karl Dean
Ballroom C1

HOT TOPIC SESSION • Circulating Molecular and Cell-Derived Biomarkers for Translational Toxicology

Room 201

PLATFORM • Safety Assessment: Pharmaceutical–Drug Development

Room 202

SYMPOSIUM • High-Content Imaging: Cell Painting Basics and Emerging Applications to Toxicological Research

Room 207B

SYMPOSIUM • Refining Inhalation Risk Assessments by Integrating New Approach Methodologies

Room 209

WORKSHOP • A Roadmap to Modernized Agrochemical Carcinogenicity Assessment

Late-Breaking Poster Sessions

Hall A

- Air Pollution; Respiratory Toxicology; PFAS; Carcinogenesis
- Animal Models; Alternatives; Risk/Exposure/Safety Assessment; Immunotoxicity
- Neurotoxicity; Metals; Mixtures; Pesticides
- Computational Toxicology; Modeling; Liver; Kidney; Systems and Stem Cell Biology
- Cardiovascular Toxicology; Epigenetics; Epidemiology; Regulation and Policy
- Chemical Threats; Ecotoxicology; Endocrine Toxicology; Reproductive and Developmental Toxicology