



# Selected Events Related to In Vitro and Computational Toxicology

## SOT 2019 Annual Meeting

### American Society for Cellular and Computational Toxicology

#### Sunday, March 10

**8:15 AM—12:00 NOON**

##### **CONTINUING EDUCATION**

- Assay Development Principles and Good Research Practices for Rigor and Reproducibility in In Vitro Toxicology- **CC Room 314**
- Complex Mixtures and UVCBs: Analysis, Testing, and Risk Assessment - **CC Room 316**
- Industrial Application of Computational Toxicology in the 21st Century – **CC Ballroom II**
- Mechanistic Understanding and Quantitative Risk Assessment in Immunotoxicology – **CC Ballroom IV**
- Role of Toxicokinetics in Human Health Safety Assessments – **CC Ballroom I**
- Beauty of the Skin is in the Eye of the Beholder: A Basic Course on Dermal and Ocular Toxicology – **CC Ballroom IV**

#### Monday, March 11

**8:00 AM—9:00 AM**

##### **PLENNARY LECTURE**

Robust Assembly of Human Tissues for Disease Modeling and Discovery – **CC Hall A**

**9:00 AM—10:00 AM**

##### **EXHIBITOR-HOSTED SESSION**

In Vitro Platforms for Derisking Nephrotoxicity: Presented by SOLVO Biotechnology – **CC Room 337**

**9:15 AM—12:00 NOON**

##### **SCIENTIFIC SESSIONS**

- Advances in In Vitro to In Vivo Extrapolation: Approaches and Applications – **CC Room 316**
- Application of Computational Modeling to Risk Assessment of Endocrine Disruptors – **CC Room 309**
- Assessing Acute Health Risk: Potential Application of Next-

Generation Toxicological Tools – **CC Ballroom 1**

**9:15 AM—4:30 PM**

##### **POSTER SESSION**

Stem Cell Biology and Toxicology – **CC Exhibit Hall**

**12:00 NOON—1:30 PM**

##### **ANCILLARY MEETING/LUNCH**

Updates and Next Steps for the Nonclinical Innovation and Patient Safety Initiative (NIPSI) – **Hilton Baltimore Tubman**

**12:00 NOON—1:00 PM**

##### **EXHIBITOR-HOSTED SESSION**

Scalable, 3D In Vitro Technology for Predictive DILI Screening and Mechanistic Hepatotoxicity Testing: Presented by InSphero Inc. – **CC Room 339**

**12:10 PM—1:30 PM**

**INFORMATIONAL SESSIONS**

- Federal Efforts in Rapidly Assessing Hazard and Risk to Emerging Threats and Emergency Response – *CC Room 308*
- Data for Chemical Evaluations: Secret or Otherwise – *CC Room 310*

**1:45 PM—4:30 PM**

**SCIENTIFIC SESSIONS**

- Scaling Barriers: Cellular Dynamics and Models of Blood-Brain Barrier Developmental Toxicity – *CC Ballroom II*
- Strategic Development of Read-Across within the EU-ToxRisk Project and Beyond – *CC Room 316*
- A Herculean Switch? Rethinking Chemical Carcinogenicity Assessment – *CC Room 314*
- A Tale of an In Vitro Method: From Inception to International and Regulatory Acceptance – *CC Ballroom IV*
- Applying Systems Biology Approaches to Understand the Joint Action of Chemical and Nonchemical Stressors – *CC Room 309*
- NextGen Renal Proximal Tubule Toxicity Screening: Novel Cellular

Model and Complex Culture Platforms  
– *CC Ballroom III*

**3:00 PM—4:00 PM**

**EXHIBITOR-HOSTED SESSIONS**

- In Vitro Hepatic and Enteric Systems for Drug Metabolism, Toxicology, and Pharmacology: Presented by In Vitro ADMET Laboratories Inc. – *CC Room 337*
- Embracing Translation at the National Toxicology Program: A Strategic Realignment: Presented by the National Institute of Environmental Health Sciences – *CC Room 340*

**5:00 PM—7:00 PM**

**ANCILLARY MEETING**

A Non-animal 6-Pack for Pesticide Testing: Update on Ongoing and Planned Activities - *Baltimore Marriott Inner Harbor University Ballroom*

**5:30 PM—7:00 PM**

**ANCILLARY MEETING**

Respiratory Toxicology: Collaborative Activities and Progress Using Non-Animal Test Systems – *Hyatt Regency Baltimore Annapolis*

**5:30 PM—7:00 PM**

**SPECIALTY SECTION EVENT**

Stem Cells Specialty Section meeting –  
*Hilton Baltimore Key 11*

**7:00 PM—9:00 PM**

**SPECIALTY SECTION MENTORING EVENT**

Computational Toxicology, In Vitro and Alternative Methods, Mechanisms, Molecular and Systems Biology, Regulatory and Safety Specialty Sections and ASCCT Joint Mentoring Event - *Tir Na Nog Irish Bar and Grill*

## Tuesday, March 12

**6:30 AM—8:00 AM**

### **ANCILLARY MEETING**

Global Collaboration for Non-Animal Safety Assessment – *Hilton Baltimore Peale*

**8:00 AM—10:45 AM**

### **SCIENTIFIC SESSIONS**

- Systems Toxicology Approaches to the Science of Safety Evaluation – *CC Ballroom IV*
- Predicting Metabolic Clearance Rates for Drug Leads and Environmental Chemical Risk Assessment – *CC Room 309*
- Shifting Currents in Predictive Toxicology and Safety Evaluation with In Vitro and Alternative Approaches – *CC Hall A*

**9:00 AM—10:00 AM**

### **EXHIBITOR-HOSTED SESSIONS**

- Animal-Free Testing Strategies for Risk Assessment of Inhalable Compounds: Presented by Fraunhofer ITEM – *CC Room 340*
- ICCVAM Update on Implementing New Approaches to Evaluate the Safety of Chemicals and Medical Products in the United States:

Presented by National Institute of Environmental Health Sciences – *CC Room 337*

**9:15 AM—4:30 PM**

### **POSTER SESSIONS – CC Exhibit Hall**

- Alternatives to Mammalian Models I
- Biological Modeling
- Alternatives to Mammalian Models II
- Computational Toxicology I
- Computational Toxicology II
- Nanotoxicology In Vitro: Alternative Testing Strategies
- Nanotoxicology In Vitro: Mechanism, Uptake, and Cellular Response

**10:30 AM—11:30 AM**

### **EXHIBITOR-HOSTED SESSION**

Using In Silico Tools to Increase Confidence in Defined Approaches for Skin Sensitization: Presented by Lhasa Limited – *CC Room 337*

**11:00 AM—1:00 PM**

### **ROUNDTABLE DISCUSSION**

Evaluation and Adoption of Advanced In Vitro Toxicology Models – *Hilton Baltimore Tubman*

**11:00 AM—12:00 PM**

### **INFORMATIONAL SESSION**

Challenges and Opportunities Encountered with TSCA Reform: Working toward a Shared Vision for Product Safety – *CC Room 314*

**12:00 NOON—1:00 PM**

### **EXHIBITOR-HOSTED SESSION**

Building Confidence in Neurotoxicity Testing Using an In Vitro Phenotypic Assay Platform Based on Human iPSC-Derived Neurons: Presented by NeuCyte, Inc. – *CC Room 338*

**12:00 NOON—1:30 PM**

### **ANCILLARY MEETING/LUNCH**

Increasing the Availability and Quality of Human Tissue for Research – *Hilton Baltimore Ruth*

**1:00 PM—2:30 PM**

### **FEATURED SESSION**

Toxicological Sciences Featured Session: From the Pages of ToxSci: Mouse vs. Machine...Are Animal Studies Being Supplanted by Computers? – *CC Room 310*

**1:00 PM—2:30 PM**

**SCIENTIFIC SESSIONS**

- Scientific and Regulatory Update in the Application of the 3Rs Principle in Chemical and Drug Development – *CC Room 308*
- In Vitro Static and Dynamic Skin Metabolism Methods and Strategies to Address the Safety Assessment of Topically Applied Chemicals – *CC Room 309*

**1:30 PM—2:30 PM**

**EXHIBITOR-HOSTED SESSIONS**

- A Scalable, 3D In Vitro Drug Discovery Platform for NASH and Fibrosis: Presented by InSphero Inc. – *CC Room 339*
- Case Studies: Using Primary Cells and Media to Create Physiologically Relevant Models: Presented by Lonza - *CC Room 338*

**3:00 PM—4:00 PM**

**EXHIBITOR-HOSTED SESSION**

Applications of Comprehensive In Vitro Toxicology Assays to Derisk Drug Candidates in Early Discovery: Presented by Eurofins Pharma Discovery Services – *CC Room 339*

**3:00PM—4:30 PM**

**SCIENTIFIC SESSIONS**

- When “Natural” Is Not Synonymous with “Safe”: Toxicity of Natural Products Alone and in Combination with Pharmaceutical Agents – *CC Room 321*
- New Approaches Using Mode-of-Action to Predict Acute and Systemic Toxicity – *CC Room 316*

**4:30 PM—5:30 PM**

**EXHIBITOR-HOSTED SESSION**

Developmental NeuroToxicity Data Integration and Visualization Enabling Resource (DNT-DIVER): Presented by the National Toxicology Program – *CC Room 340*

**6:00 PM—7:30 PM**

**SPECIALTY SECTION**

In Vitro and Alternative Methods Specialty Section – *Hilton Baltimore Holiday 4*

## Wednesday, March 13

**8:00 AM—10:45 PM**

### **SCIENTIFIC SESSIONS**

- Establishing Effective Alternatives for Acute Oral and Inhalation Systemic Toxicity Testing – *CC Ballroom IV*
- Progress toward Charting the Course for Improving Carcinogenicity Assessments of Human Pharmaceuticals and Pesticides – *CC Ballroom 1*
- Can We Panelize Seizure? – *CC Ballroom III*

**9:00 AM—10:00 AM**

### **EXHIBITOR-HOSTED SESSION**

A Robust Human HepaRG Hepatocyte-Based In Vitro Liver System for Liver Fibrosis Assessment: Presented by Biopredic International- *CC Room 339*

**9:15 AM—4:30 PM**

### **POSTER SESSIONS – CC Exhibit Hall**

- Alternatives to Mammalian Models III
- Emerging Technologies
- Disposition and Pharmacokinetics

**11:00 AM—12:20 PM**

### **ROUNDTABLE SESSION**

The Necessity of Uncertainty: Quantifying Uncertainty for Regulatory Application of New Approach Methodologies – *CC Room 314*

**12:00 NOON—1:00 PM**

### **EXHIBITOR-HOSTED SESSION**

Advances in High-Throughput DNA Damage Detection Using the Comet Assay and CometChip® Technologies: Presented by Bio-Techne – *CC Room 338*

**12:00 PM—1:30 PM**

### **SPECIALTY SECTION**

Computational Toxicology – *CC Room 324*

**1:30 PM—2:30 PM**

### **SCIENTIFIC SESSION**

Biomimetic Culture Environments to Enhance In Vitro Assays: Presented by NanoSurface Biomedical, Inc. – *CC Room 338*

**1:30 PM—4:15 PM**

### **SCIENTIFIC SESSIONS**

- Understanding the Utility of In Vitro Developmental Toxicity Assays and Building Integrated Testing Strategies – *CC Room 316*

- Order from Chaos: Pattern Recognition in Challenging Human Health Datasets – *CC Room 308*
- Microphysiological Systems: A New Era in Neurotoxicology? – *CC Ballroom I*

**4:30 PM—6:30 PM**

### **ANCILLARY MEETING**

AOP Hands-on Training: Building the Foundation for Predictive Toxicology – *Hilton Baltimore Paca*

## Thursday, March 14

**8:30 AM—11:15 AM**

### **SCIENTIFIC SESSIONS**

- Nanotoxicology: In Vitro Test Platform  
– *CC Room 308*
- Use of Adverse Outcome Pathways to Design Nonanimal Testing Strategies for Assessing Inhalation Toxicity – *CC Room 316*

**8:30 AM—11:30 AM**

### **POSTER SESSIONS – CC Hall A**

- Late-breaking 7: Computational Toxicology and Biological Modeling
- Late-breaking 10: Risk Assessment; Exposure Assessment; Regulation; Food Safety

**12:00 PM—1:30 PM**

### **ANCILLARY MEETING**

Updates on Activities Related to 21st Century Toxicology: Satellite Meeting – *Hilton Baltimore*