

Society of Toxicology 57th Annual Meeting
Select *In Vitro* and Alternative Methods Sessions
(See [here](#) for the complete programme listing.)

Saturday, 10 March

8:30 am–5:30 pm Contemporary Concepts in Toxicology Meeting: Building a Better Epithelium

Sunday, 11 March

7–7:45 am Mini-course – The What, When, and How of Using Data From Alternative Testing Methods in Chemical Safety Assessments

8:15 am–12 noon Continuing-education course – Physiologically Based Pharmacokinetic Modeling to Support Modernized Chemical Safety Assessment (AM07)

8:15 am–12 noon Continuing-education course – *In Vitro* Testing: Tales From the Real World (AM06)

1:15–5 pm Continuing-education course – Consumer Products Safety Assessment: Progress in the Use of Alternatives to Animal Models (PM09)

Monday, 12 March

9:15 am–12 noon Workshop – Assessing the Dose of Particles in Toxicological Studies: Advances in Dosimetry Models for *In Vitro* and *In Vivo* Applications in Light of Risk Assessment

9:15 am–12 noon Workshop – Predicting Drug-Induced Cholestatic Injury in Humans

9:15 am–4:30 pm Poster session – Cardiovascular Toxicology: *In Vitro* Systems

9:15 am–4:30 pm Poster session – Respiratory Toxicology: *In Vitro* Studies

10:30–11:30 am Exhibitor-hosted session by Lhasa Limited – Skin Sensitization: What Place Does *In Silico* Have Within a Defined Approach?

11:30 am–1 pm *In Vitro* lecture and luncheon – More Than Skin Deep: When Alternative Approaches Outperform Animal Tests (RSVP required)

12 noon–1 pm Exhibitor-hosted session by Bio-Techne – Evolution of 3D Tissue Models for Toxicology and Disease Modeling

12 noon–1 pm Exhibitor-hosted session by Coyne Scientific, LLC – Leveraging Genetic Diversity to Reduce Clinical Attrition: A Novel Approach to *In Vitro* Safety and Toxicity Testing

- 1:30–2:30 pm Exhibitor-hosted session by ScitoVation – Can Pharmacokinetic Modeling Keep Up with Risk Assessment in the 21st Century?
- 1:30–2:30 pm Exhibitor-hosted session by InSphero Inc – Validation of 3D Human Liver Microtissues for Enhanced DILI Prediction and Investigation of Mechanisms of Hepatotoxicity
- 1:30–2:30 pm Exhibitor-hosted session by In Vitro ADMET Laboratories – Novel MetMax Hepatocytes and Enterocytes for the Evaluation of Drug Metabolism, Drug-Drug Interactions, and Metabolism-Dependent Toxicity
- 1:45–4:30 pm Symposium – Alternative Testing Strategies for Nanomaterials and Ultrafine Particles
- 1:45–4:30 pm Symposium – High-Throughput Transcript Profiling and Functional Assessment: From Screening to Systems Biology Strategies for Personal Chemical Safety Predictions
- 3–4 pm Exhibitor-hosted session by BioSpyder – High-Throughput Transcriptomics: Addressing the Human Risk Assessment Challenges of Chemical Coverage, Metabolism, and Population Variation
- 4:45–6:00 pm SOT/EUROTOX Debate – Adverse Outcome Pathways Are the Future for Regulatory Toxicology
- 5–6:30 pm Ancillary meeting – Updates From Multi-Stakeholder Collaborations to Advance Non-Animal Approaches to Respiratory Toxicology

Tuesday, 13 March

- 8-10:45 am Workshop – Advancing the Adverse Outcome Pathway Framework: An International Horizon Scanning Approach
- 9–10:00 am Exhibitor-hosted session by InSphero Inc – A Novel 3D Microtissue-Based Platform for Studying Liver Fibrosis
- 9:15 am–4:30 pm Poster session – Alternatives to Mammalian Models
- 9:15 am–4:30 pm Poster session – Stem Cell Biology and Toxicology
- 9:15 am–4:30 pm Poster session – Bioinformatics and *In Silico* Modeling
- 9:15 am–4:30 pm Poster session – Computational Tools for Safety Assessment
- 10:30–11:30 am Exhibitor-hosted session by Promega Corporation – Achieve Higher Quality Data and Enable Multiplexing Options by Adopting Real-Time *In Vitro* Cytotoxicity Assays in 2D/3D Cultures

- 10:30–11:30 am Exhibitor-hosted session by Lonza – Three-Dimensional (3D) Cultures of HepaRG Cells Model Physiologically Relevant Drug Metabolism, Drug-Induced Liver Injury, and Hepatic Signaling Pathways
- 11 am–12:20 pm Roundtable – Alternative Toxicology Approaches to Evaluate Next-Generation Nicotine Products
- 12 noon–1 pm Exhibitor-hosted session by ACEA Biosciences – Development of Real-Time Cardiotoxicity and Hepatotoxicity Assays Using Human iPSC-Derived Cells
- 12 noon–1 pm Exhibitor-hosted session by Miltenyi Biotec Inc. – Let the Machine Do the Work: Using Automation for High-Throughput *In Vitro* Toxicity Assays
- 1:30–4:15 pm Symposium – Effectively Leveraging Cellular Functional Genomics Strategies for Elucidating Chemical Mechanisms of Action
- 1:30–4:15 pm Symposium – Application of Data From New Approaches in Regulatory and Product Safety Decisions
- 5–7:00 pm Ancillary meeting – Hands-On Seminar: Creating an Adverse Outcome Pathway in the AOPWiki
- 6:30–8:30 pm Mentoring session for students/postdoctoral candidates co-hosted by the MSBSS, IVAM, and Mechanisms Specialty Sections (RSVP required)

Wednesday, 14 March

- 8–10:45 am Workshop – Reducing the Uncertainty of Read-Across Predictions by New Approach Methodologies: Application in Regulatory Human Risk Assessments
- 9:15 am–4:30 pm Poster session – Nanotoxicity: *In Vitro*
- 9:15 am–4:30 pm Poster session – Alternatives to Mammalian Models II
- 9:15 am–4:30 pm Poster session – Alternatives to Mammalian Models III: Liver, Ocular, and Skin
- 9:15 am–4:30 pm Poster session – Modeling of Pharmacokinetics and Biological Effects
- 11 am–12:20 pm Informational session – Good Cell and *In Vitro* Method Practices Against the "Reproducibility Crisis"
- 12 noon–1 pm Exhibitor-hosted session – US EPA's Toxic Substance Control Act: Strategy for Alternative Test Methods to Reduce Animal Testing

4:30–5:50 pm Platform session – Alternative Models for Assessing Developmental Toxicity

6–7:30 pm Specialty section event – *In Vitro* and Alternative Methods Specialty Section Meeting/Reception

Thursday, 15 March

8:30–11:15 am Symposium – *In Vitro* Test Methods to Model Local Respiratory Effects After Exposure to Pulmonary Toxicants: Not Just Smoke and Mirrors

12 noon–4 pm Satellite meeting – Updates on Activities Related to 21st-Century Toxicology and Related Efforts