



March 6, 2019



ACC Science and Research Highlights

ACC Science & Research
at the Society of Toxicology Meeting
March 10-14, 2019



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Society of Toxicology (SOT) Annual Meeting March 10-14

Approximately 5,000 scientists from more than 50 countries will participate in the annual meeting of the Society of Toxicology (SOT) in Baltimore March 10-14. The SOT is the largest professional society of toxicologists in the world. For ACC, the annual SOT meeting, through both scientific sessions and poster presentations, provides a unique opportunity to communicate our latest research results and to interact with others engaged in related areas of research, testing and assessment. The SOT meeting also provides a great opportunity for networking with leaders in the field and for catalyzing collaborations within and across sectors.

Presentations by ScitoVation Scientists of LRI Supported Research: Six presentations by ScitoVation scientists leading LRI research investigations are slated for the SOT meeting (see table below). LRI research actualizes ACC members' continuing commitment to advance scientific understanding of the potential impacts of chemicals on human health and the environment and is guided by [ACC's LRI 2015-2019 Research Strategy](#). ACC's LRI research projects are oriented toward: 1) Further development and use of predictive exposure models; 2) Refinement of tools and approaches that can extrapolate results from in vitro high throughput assays to real-world human exposures; and 3) Development of fit-for-purpose assays that are envisioned to provide the means to conduct targeted cellular-based safety assessments. The selection of these LRI research projects for presentation at the SOT meeting reflects the importance and credibility of LRI research and the prominence of LRI researchers, and demonstrates LRI's commitment to scientific excellence and public dissemination of research results. [LRI's Principles](#) ensure that LRI funded research meets the highest standards for scientific excellence, transparency, and fair and unbiased conduct.

Presentations of Scientific Research Conducted or Supported by ACC: ACC and our members are dedicated to improving public understanding of the safety and benefits of chemicals, as well as our understanding of the potential health and environmental risks. By supporting and conducting innovative, ground-breaking research, ACC helps to advance 21st century approaches that improve science and risk-based decision making and contributes to strengthening the link between research, product stewardship and regulatory science policies. Scientific presentations at SOT from [ACC's Regulatory and Technical Affairs Department](#) focus on key aspects of TSCA implementation. Studies supported by [ACC's Chemical Products and Technologies Division](#) on enhancing knowledge of the potential toxicities and risks of specific chemicals will be reported at this SOT meeting. [ACC's Sustainability and Market Outreach Division](#) presentations at SOT focus on piloting a framework and tools that incorporate both exposure and risk into existing hazard-only alternative assessment methodologies.

ACC Science and Research Highlights is a publication for ACC members and staff to communicate information on scientific research projects conducted or supported by ACC departments

ACC's Science and Research Division, Regulatory & Technical Affairs Department

Date	SOT Presentation / Poster Title	Lead Authors
3/12	Zonal-specific transcriptional programs associated with PPAR α activation in the rat liver and their role in liver cancer in rodents (9:15-10:45 CC Exhibit Hall) Abstract #1985/ Poster Board - P372 ACC LRI	Melvin Andersen (ScitoVation)
3/12	Extending the PLETHEM platform for PBPK modeling: batch mode processing, dermal routes of exposure & integration with mode-of-action tools (10:45-12:15 CC Exhibit Hall) Abstract #1838/ Poster Board - P219 ACC LRI	Salil Pendse (ScitoVation)
3/12	Development of a multi-functional fit-for-purpose rat liver co-culture assay for hepatotoxicity testing (10:45-12:15 CC Exhibit Hall) Abstract #2446/ Poster Board - P861 ACC LRI	Jessica Hartman (ScitoVation)
3/12	Development of a fit-for-purpose in vitro model of lung toxicity (1:30-3:00 CC Exhibit Hall) Abstract #2465/ Poster Board - P880 ACC LRI	Scott Slattery (ScitoVation)
3/12	Addressing systematic inconsistencies between in vitro and in vivo transcriptomic mode of action signatures (1:30-3:00 CC Exhibit Hall) Abs. #1803 /P182 ACC LRI	Patrick McMullen (ScitoVation)
3/12	Fit-for-purpose in vitro assays in risk-based decision making—example with estrogenic compounds (3:00-4:30 CC Exhibit Hall) Abs. #1868/ P251 ACC LRI	Marjory Moreau (ScitoVation)
3/12	Informational Session: Challenges and Opportunities Encountered with TSCA Reform: Working toward a Shared Vision for Product Safety (11:00 AM to 12:20 PM, CC Room 314) ACC Regulatory & Technical Affairs	Sarah Brozena (ACC Reg Tech)
3/12	The Missing Link: Using the TTC to Provide a Risk-Based Approach for Focusing Non-targeted Analysis Efforts. (3:00-4:30 CC Exhibit Hall), Abstract #1881/Poster Board - P265 ACC LRI	Rick Becker (ACC Science & Research) & Jon Arnot (ARC)
3/12	Evaluation of Inhaled Low-Dose Formaldehyde Induced DNA Adducts and DNA-Protein Cross-Links by Liquid Chromatography-Tandem Mass Spectrometry. Abstract# #1901/ Poster Board - P285 ACC Formaldehyde Panel	Kun Lu (University of North Carolina)
3/13	Formaldehyde and Leukemia: Case Study Using the IPCS MOA and Human Relevance Frameworks. Abstract# 2746/Poster Board- P232 ACC Formaldehyde Panel	Robinan Gentry (Ramboll)
3/13	An Updated Mode-of-Action Analysis for Formaldehyde-Induced Nasal Tumors in Rodents: A Case Study Using the IPCS MOA and Human Relevance Frameworks. Abstract# #2750/ Poster Board - P236 ACC Formaldehyde Panel	Chad Thompson (ToxStrategies)
3/13	PBT Assessment Criteria: Critical Tool or Policy Anachronism? Regulatory Approaches for Selection of Chemicals for Expedited Action (9:15-10:45 CC Exhibit Hall) Abstract #2786/ Poster Board - P290 ACC Regulatory & Technical Affairs	Paul DeLeo (Integral Consulting) & Suzanne Hartigan (ACC Reg Tech)
3/13	Tiered Approach to Chemical Screening Using Both Hazard- and Exposure-Based Evaluation (9:15-10:45 CC Exhibit Hall) Abstract #2792/ Poster Board - P296 ACC Sustainability & Market Outreach	Sharon Dubrow (ACC Sustainability & Market Outreach)
3/13	Pilot Testing of a Tiered Approach to Exposure Screening for Products and Their Ingredients (9:15-10:45 CC Exhibit Hall) Abstract #2797/ Poster Board - P301 ACC Sustainability & Market Outreach	Michael Ciarlo (EA Engineering), Sharon Dubrow (ACC Sustainability & Market Outreach)
3/13	Roundtable Session: The Necessity of Uncertainty: Quantifying Uncertainty for Regulatory Application of New Approach Methodologies [A Fit-for-Purpose Scientific Confidence Framework] (11:00 AM to 12:20 PM CC Room 314) ACC LRI	Rick Becker (ACC Science & Research)
3/14	Relationships between Formation of DNA Double-Strand Breaks (DSBs) and t(9:22) Translocations in Human HL60 Promyelocytic Cells Exposed In Vitro to Butadiene Diepoxide (8:30 AM to 11:30 AM 3 Abstract #3349/Poster Board - P138: CC Hall A) ACC Olefins Panel	V. E. Walker (University of Vermont)