



March 4, 2020



ACC Science and Research Highlights

ACC Science & Research
at the Society of Toxicology Meeting
March 15-19, 2020



Society of Toxicology (SOT) Annual Meeting March 15-19

[Click here for the SOT Scientific Program Overview](#)

Approximately 6,000 scientists from across the globe will participate in the annual meeting of the Society of Toxicology (SOT) in Anaheim, California March 15-19. 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 Scientists of LRI Supported Research:

Five presentations by scientists leading LRI research investigations are slated for the SOT meeting (see table on page 2). 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 Research Strategies. ACC's LRI research projects are oriented toward: 1) Refinement of tools and approaches that can extrapolate results from *in vitro* high throughput assays to real-world human exposures; 2) Development of fit-for-purpose assays that are envisioned to provide the means to conduct targeted cellular-based safety assessments and 3) Further development and use of predictive exposure models for risk-based prioritization and safety evaluation. The selection of these LRI research projects for presentation at the SOT meeting reflects the importance and credibility of LRI research 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, credibility, and transparency. A new web video [highlights the ACC LRI research program](#), provides examples of the impacts of the ACC LRI and summarizes the LRI Research Strategy.

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 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. These presentations are listed in the table on page 2.

ACC Science and Research Highlights is a publication for ACC members and staff to communicate information on scientific research projects conducted or sponsored by ACC departments by Richard A. Becker Ph.D., DABT, ACC's Science and Research Division, Regulatory & Technical Affairs Department

Date	SOT Presentation/Poster Title (author attended times are indicated)	Lead Author
3/16	Development of an in vitro assay for inhalation toxicity. Abstract# 1394/ Poster# P474 2:15 to 4:30 (supported by ACC LRI)	Slattery S. et al. (ScitoVation)
3/16	Exposure to 1,4-dioxane above the Metabolic Saturation Threshold Induces a Mitogenic Key Element in the Mouse Liver Cancer Mode of Action. Abstract #1505/ Poster# P606 9:00 AM–10:45 (supported in part by the Foundation for Chemistry Research and Initiatives)	Lafranconi et al. (Environmental Resources Management)
3/16	A Proposed Framework to Assess the Respiratory Sensitization Potential of Isocyanate-Based Prepolymers (Abstract# 1185 /Poster# P230 10:45-12:30 (supported in part by International Isocyanate Institute, ACC Diisocyanates Panel and ACC Aliphatic Diisocyanates Panel)	S. Krieger et al. (Dow)
3/17	Integration of transcriptomic points of departure into the MoAviz interactive visualization framework. (Abstract# 2021/ Poster# P338 10:45 to 12:30 (supported by ACC LRI)	Black M.B. et al. (ScitoVation)
3/17	Hepatotoxic response in 2D & 3D co-culture models differs from hepatocyte-alone models. Abstract# 1931/ Poster# P238 10:45 to 12:30 (supported by ACC LRI)	Stern A. et al. (ScitoVation)
3/18	An open source in silico prediction model of hepatic intrinsic clearance for IVIVE. Abstract# 2987/Poster# P618 2:15 to 4:30 (supported by ACC LRI)	Fitzpatrick J. et al. (ScitoVation)
3/18	Development of additional workflows for risk assessment & prioritization for PLETHEM R Package. Abstract# 2957 / Poster# P587 9:00 to 10:45 (supported by ACC LRI)	Bronson K. et al. (ScitoVation)
3/19	High-Throughput Risk-Based Prioritization for Ecological Risk Assessment CC Room 304A Abstract# 3241 8:30 to 9:00 (supported by ACC LRI)	Arnot J. (ARC Arnot Research)
3/18	In Vitro Assessment of Potential Chronic Toxicity of Smoke from Combustion of Flame-Retarded and Non-Flame-Retarded Furnishings. Abstract #2810 / Poster# P427 2:15 to 4:30 (supported by ACC North American Flame Retardant Alliance)	Osimitz T. et al. (Science Strategies)
3/18	Systematic Characterization of Hexavalent Chromium and Potential Female Reproductive Outcomes - Application of USEPA Critical Appraisal Tools and Stepwise Inclusion of Mechanistic Data (Abstract# 2605 /Poster# P204 9:00-10:45 (supported by ACC Hexavalent Chromium Panel)	Wikoff D., et al. (ToxStrategies)