8th Annual Meeting of the ASCCT

Computational Toxicology: Peeking into the Clouds while Keeping our Feet on Solid Ground

September 24-26, 2019

Montgomery Ballroom
Gaithersburg Doubletree by Hilton
Gaithersburg, Md

Tuesday, September 24

7:00: Pre-meeting mentoring event
Gaithersburg Doubletree Hotel Bar

Wednesday, September 25

8:30: Registration & Coffee

9:00: Welcome and Introduction
Erin Hill, President, ASCCT

9:10: Protocols describing the combined use of experimental data and in silico results for the assessment of toxicological endpoints
Glenn Myatt, Leadscope

10:00: Session I

1. Whole transcriptome extrapolation and mechanism of action analysis: Tunicamycin case study
   Ruchir Shah, Sciome

2. Good decisions require good data: Creating curated and structured resources for toxicology
   Shannon Bell, ILS, Inc

BREAK and Poster Viewing

3. Characterizing the GPCR-ome target profile of emerging chemical agents with PRESTO-TANGO
   Tyler DP Goralski, Combat Capabilities Development Command Chemical Biological Center

4. Multi-label model for toxicity prediction
   Xiu Huan Yap, Wright State University
5. Quantitative in vitro to in vivo extrapolation using microphysiological systems: Towards predictive toxicological assessment for inhaled reduced risk products
   Aditya Reddy Kolli, Phillip Morris International

12:00: Lunch [Doubletree Restaurant]

1:00: Poster session

2:00: Session II

1. Tiered-testing strategies and the use of new approach methodologies Under the amended Toxic Substances Control Act
   William Irwin, US EPA
2. ReCAAP: Carcinogenicity case study waivers for food-use pesticide registration
   Gina Hilton, PETA International Science Consortium
3. Beyond the barrier: A readily-adoptable in vitro model for exploring the effects of inhaled toxicants beyond the epithelium
   Samantha C. Faber, University of North Carolina Chapel Hill
4. Development of a high-throughput iPSC-derived Liver-on-a-Chip for hepatotoxicity detection
   Ryan M Reddinger, Mimetas BV

3:30: BREAK and Poster Viewing

4:00: International Collaboration

4:00 – 4:15: A new society for alternatives in India
   Mohammad A. Akbarsha, General Secretary, Society for Alternatives to Animal Experiments– India

4:15 – 4:30: Establishment of the Asian Consortium for Three Rs supported by ASCCT
   Hajime Kojima, JSAAE

4:30 – 4:45: 2020 congresses: ESTIV2020 and WC11
   Mathieu Vinken, ESTIV President

4:45 – 4:55: The International Conference on QSARs (QSAR2020)
   Grace Patlewicz, US EPA, Conference chair

5:00: Business Meeting

- Elections, finances, other business
- Cooperation with other societies

5:30: Awards Ceremony & Poster Reception
Thursday, September 26

8:30: Coffee & Networking

9:00: The march toward big data in toxicology: Striking a balance between machine learning and mechanistic modeling
Nicole Kleinstreuer, NICEATM

9:50: Session III

1. Toxicological mechanistic inference: Generating mechanistic explanations for adverse outcomes
Ignacio Tripodi, University of Colorado, Boulder

2. An integrated approach to testing and assessment of chemical mixtures in the environment: The advent of Adverse Outcome Pathway footprinting
Jason C. Lambert, US EPA

3. The GARD platform: Cutting-edge technology using genomics and machine learning to test for various toxicological endpoints
Joshua Schmidt, Senzagen, Inc.

10:50: BREAK

11:00: Computational Tools Showcase

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<th>Presenter</th>
<th>Affiliation</th>
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<td>Ignacio J. Tripodi</td>
<td>University of Colorado, Boulder</td>
<td>DASk: Differential ATAC-seq toolkit</td>
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<td>Kamel Mansouri</td>
<td>Integrated Laboratory Systems, Inc.</td>
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<td>Barry Hardy</td>
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<td>David Filipovic</td>
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<td>Adam Lee</td>
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<td>Shannon Bell</td>
<td>ILS/NICEATM</td>
<td>Integrated Chemical Environment (ICE)</td>
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<td>Maggie Coombs</td>
<td>Lhasa Limited</td>
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<td>T.J. Bozada</td>
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12:00: Panel Discussion: Comp Tox: Data and methodology quality and transparency

Moderator:
David Allen, Integrated Laboratory Systems, Inc.

Panelists:
Nicole Kleinstreuer, NICEATM
Glen Myatt, Leadscope, Inc.
Thomas Hartung, Johns Hopkins University/CAAT
Kristie Sullivan, PCRM
David Filipovic, MSU

1:00: Meeting Ends
POST-MEETING HANDS-ON TRAINING IN COMPUTATIONAL METHODS
Offered by the PCRM
Separate registration requested

1:00 PM - 5:30 PM
Gaithersburg Doubletree by Hilton

The training will feature short summaries of key tool features followed by rotating demos with opportunities to try out the models and/or hands-on exercises. Agenda and registration for this session can be found at www.ascctox.org/meetings. Lunch will be served.

Thank you to the meeting sponsors