



**55<sup>th</sup> Symposium / 55<sup>e</sup> Symposium**

**December 3 – 5, 2023**

DoubleTree by Hilton Montreal  
1255 Jeanne-Mance St, Montreal, Quebec H5B 1E5

Montréal

**ADVANCES AND INNOVATIONS IN INTEGRATED AND TRANSLATIONAL  
TOXICOLOGY**

**AVANCÉES ET INNOVATIONS EN TOXICOLOGIE INTÉGRÉE ET  
TRANSLATIONNELLE**

**Organized by / Organisé par:**

SOCIETY OF TOXICOLOGY OF CANADA  
LA SOCIÉTÉ DE TOXICOLOGIE DU CANADA

and

**Program Committee / Comité du Programme**

Albert Licollari, Nucro-Technics, Chair, Industry Member  
Ed Krol, University of Saskatchewan, Academic Member

## DAY 1 – December 3, 2023

STC Board of Directors Meeting – Meeting Room Petit Soprano  
ICT-2028 Vancouver 1st Planning Meeting  
Meet & Greet @ Featured Montreal Restaurant, TBD

---

## DAY 2 – December 4 SOPRANO ABC

### Welcome and Opening Remarks

8:15: 8:30

**Session I - Artificial intelligence/machine learning in Predictive Toxicology (Chair: Albert Licollari, Director of Toxicology, Nucro-Technics)**

8:30-9:00 **Standardized Informatics for Regulatory and Safety Assessments**  
Andy Nong, PhD, ScitoVation, LLC, Director of Computational Toxicology

9:00-9:30 **To AI or Not: Nitrosamine Potency Prediction Defined**  
Kevin Cross, PhD, Vice President, Principal Investigator U.S. FDA Collaborations, Instem

9:30-10:00 **Estimating Steady-State Blood Concentrations ( $C_{ss}$ ) and Administered Equivalent Doses (AEDs) from cellular (in vitro) Bioassays Using Toxicokinetic Models**  
Alessandro Sangion, PhD, Arnot Research and Consulting

10:00-10:30 Coffee/Tea Break

10:30-11:30 **Plenary Lecture**  
**From Toxicity Testing for the 21<sup>st</sup> Century to a Human Exposome Project**  
Thomas Hartung, PhD, Center for Alternatives to Animal Testing (The Johns Hopkins University Bloomberg School of Public Health)

11:30-12:00 **Flash Talks**  
Poster Award Finalist

### Break

12:00-1:00 Lunch and Poster (viewing and judging)

**Session II - Microphysiological Systems for Toxicological Safety Prediction and Regulatory Challenges**

*Chair* – Margaret Magdesian, PhD, Ananda Devices/ *Cochair*:

1:00-1:30 **Development of Predictive Drug Discovery Platforms Merging Human Tissue Chips and Translational Software**

Murat Cirit, PhD, CEO, Javelin Biotech

- 1:30-2:00     **3D models and Toxicology Applications**  
Jan Lichtenberg, PhD, CEO, InSphero
- 2:00-2:30     **Organ-on-a-chip models for disease modelling and drug testing**  
Milica Radisic, PhD, Canada Research Chair in Organ-on-a-Chip Engineering.
- 2:30-2:45     Coffee/Tea Break
- 2:45-3:15     **Predictive and scalable platform to test toxicity and efficacy of compounds directly on patients derived 3D neuromuscular junction-on-a-chip.**  
Margaret Magdesian, PhD, Ananda Devices.
- 3:15-4:15     **Poster Session**
- 4:15-4:30     **Break**
- 4:30-6:00     **STC Annual Business Meeting – Room: Symphonie 1**  
4:30-6:00     **Concurrent Trainee-Focussed Session - TBD**

### **Reception & Awards**

6:30 pm       All attendees are welcome – Venue: TBD  
*(finger food & refreshments provided and cash bar)*

---

## **DAY 3 – December 5**

### **Soprano ABC**

#### **Session III – Safety biomarkers in translation toxicology**

*Chair* – TBD *Co-chair* – Richard Bagshaw, PhD (Nucro-Technics)

- 8:30-9:00     **Next-Gen Genotoxicity Testing: where Genomics and Transcriptomics Meet**  
Carole Yauk, PhD, Department of Biology, University of Ottawa
- 9:00-9:30     **Implementation of translational safety biomarkers following health authority qualification.**  
Nicholas King PhD, Executive Director Predictive Safety Testing Consortium, Critical Path Institute
- 9:30-10:00    **ICH 1 Addendum – Alternative Approaches for Carcinogenicity Testing of Pharmaceuticals**  
Alisa Vespa, PhD, Senior Scientific Evaluator, Health Canada
- 10:00-10:15   Coffee/Tea Break

10:15-11:00 **Barbara Hales Award Lecture**

11:00-12:00 **Gabriel L. Plaa Award Lecture**

**Break**

12:00-1:00 Lunch

1:00-1:45 **Henderson Award Lecture**

1:45-2:15 **Short Oral Presentations.** Selected Abstracts

**Session IV – Food Chemical Safety: Science & Regulation**

Chair: Samuel Godefroy, PhD, Laval University

**Co-chair: Anne Marie Gannon, PhD**

2:15-3:00 **The State of Science of TiO<sub>2</sub> as a Food Additive**  
Catherine Smith and Gordon Barrett, Health Canada

3:00-3:15 Coffee/Tea Break

3:15-3:40 ***Cellular Agriculture Products***  
David Prescott, PhD, Health Canada

3:40-4:00 **Global Harmonizing of Food Safety Regulations**  
Samuel Godefroy, PhD, Laval University

**Closing Remarks**

4:00-4:15