



56th Symposium / 56^e Symposium

December 1-3, 2024

DoubleTree by Hilton Toronto
108 Chestnut St, Toronto, ON M5G 1R3

**WHAT WE EAT, WHAT WE BREATHE AND WHERE WE LIVE.
CE QUE NOUS MANGEONS, CE QUE NOUS RESPIRONS ET OÙ NOUS
VIVONS.**

Organized by / Organisé par:

SOCIETY OF TOXICOLOGY OF CANADA
LA SOCIÉTÉ DE TOXICOLOGIE DU CANADA

President: Terence R.S. Ozolinš, Queens University

Vice President: Marc-Andre Verner

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Ms. Ria Falvo, Altasciences, Industry Member

DAY 1 – December 1,2024

STC Board of Directors Meeting
ICT-2028 Vancouver 1st Planning Meeting
Meet & Greet @ Featured Toronto Restaurant

DAY 2 – December 2

Welcome and Opening Remarks

8:15: 8:30

Session I. **What we eat: Food and dietary considerations**

Chair – TBD Co-chair

8:30-8:55 **Metabolic, epigenetic and microbiome consequences of imbalanced intake of micronutrients: focus on methyl nutrients**

Clara Cho (U of Guelph)

8:55-9:20 **A case of environmental injustice: Dietary contaminants in traditional foods of an Inuit community**

Amira Aker (Boston U)

9:20-9:45 **Microbial Attitudes in Foods: From Pathogens to Probiotics and Communities**

Nicola Linton (U of Guelph)

9:45-10:10 **Does zero calories mean zero risk? Examining the bioactivity of sucralose in the gut.**

Jill Rourke (Mount Allison U)

10:10-10:30 *Break*

10:30-11:15 **Tribute to Barbara Hales**

11:15-12:00 **Barbara Hales Award**-Dr. Alison Holloway (McMaster University)

12:00-1:00 *Lunch and Poster Viewing*

1:00-2:00 **Air and Space in health: Lessons from Epidemiology Plenary**-
Joel Schwartz (Harvard)

2:00-2:15 *Flash Talks*

2:15-2:45 *Break*

2:45-4:00 *Poster Session*

4:00-5:00 **Trainee-Networking Session - Science/Education/Training/Governance & the Next Generation**

Concurrent STC Annual Business Meeting – All STC Members

Reception & Awards

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

DAY 3 – December 3

Session II. What we breathe: Cannabis and vaping

Chair – **TBD** Co-chair

8:30-8:55 **Cannabis vaping in Canada: A snapshot of surveillance and regulatory research findings**

Hanan Abramovici (Health Canada)

8:55-9:20 **A multi-omics assessment of the toxicological impact of vaping on the cardiopulmonary system**

Carolyn Baglole (McGill)

9:20-9:45 **Cannabis and the Vulnerable Brain: Impacts of Age, Genetics and Routes of Administration**

Jibrán Khokar (Western)

9:45-10:15 **Break**

Session III. Where we live: Environmental exposures

Chair – **TBD** Co-chair

10:15-10:40 **Analysis of per- and polyfluoroalkyl substances (PFAS) in human plasma from Nunavik (northern Quebec)**

Sophia Schreckenbach (Laval)

10:40-11:05 **Toxicity of the tire-derived chemical 6PPD-quinone across fishes of commercial, cultural, and ecological importance**

Markus Brinkmann (U of Saskatchewan)

11:05-11:30 **From Antipsychotics to Antioxidants and Back Again: A Journey Through Xenobiotic Oxidation and Its Toxic Effects.**

Arno Siraki (U of Alberta)

11:30-11:55 **Using spatial methods to explore socio-spatial inequities in exposure: A case study assessing lead exposure for public schools in British**

Columbia Kristian Larsen (Health Canada)

11:55-1:00 **Lunch**

1:00-1:45 **Gabriel Plaa Award**-Robin Walker

1:45-2:30 Short oral Presentations

2:30-2:50 Break

Session IV. Forensic toxicology: What we ate, what we breathed, where we lived

Chair – TBD Co-chair

2:50-3:15 **Cocaine and driving: The highs and lows**

Zachary Currie (Centre of Forensic Science)

3:15-3:40 **Fentanyl and the Opioid Epidemic**

Karen Woodall (U of Toronto)

3:40-4:05 **Legal highs meet high tech: A high performance computing approach to identify novel psychoactive substances with high resolution mass spectrometry**

Aaron Shapiro (UBC)