



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

Programme Committee / Comité du Programme

Ed Krol, Ph.D., Chair, University of Saskatchewan, Academic Member
Dr. Clotilde Maurice, Health Canada, Government Member
Ms. Ria Falvo, Altasciences, Industry Member

DAY 1 – December 1, 2024

2:00-3:30	STC Board of Directors Meeting – Seattle Meeting Room
4:00-5:00	ICT-2028 Vancouver 1st Planning Meeting
7:00-10:00	Meet & Greet @ 3 Brewers Pub / 3 Brasseurs 275 Young Street

DAY 2 – December 2 Mandarin Ballroom

**Poster Boards
Victoria & Toronto Meeting Room**

Virtual Attendance

Zoom Webinar access for the upcoming STC event:

<https://ccrsolutions.zoom.us/j/82800748689?pwd=0EbPYDTbVGQ4SUYgo42bIgYsDBIXFy.1>

Welcome and Opening Remarks

8:15: 8:30

Session I. **What we eat: Food and dietary considerations** *Chair – Clotilde Maurice Co-chair - Mike Wade*

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-Mammoliti (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**

Session II. Remembering Barbara Hales

Chair – Tara Barton-Maclaren and Terence Ozolinš

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

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

Introduction - Michael G. Wade and Errol Thomson

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

Session III. What we eat, what we breathe, where we live.

1:00-2:00 **Plenary-Air and Space in health: Lessons from Epidemiology**

Joel Schwartz (Harvard)

2:00-2:20 **Flash Talks, 2024 STC-Intertek Graduate Poster Award Finalists:**

(2 min plus 3 min Qs) *Chair – Ed Krol Co-chair Ria Falvo*

2:00-2:05 Abithiny Selvarajah *McMaster University*

2:05-2:10 Sophia Richards *University of Toronto*

2:10-2:15 Genevieve Perono *McMaster University*

2:15-2:20 Madeleine Carew *Queen's University*

2:20-2:30 **ICT2028 Update**

Angela Hofstra

2:30-2:45 **Break**

2:45-4:00 **Poster Session**

Victoria & Toronto Meeting Room

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

Zachary Currie, Sophia Schreckenbach

Concurrent STC Annual Business Meeting – All STC Members

Vancouver Meeting Rom

Reception & Awards

6:30 pm All attendees are welcome – Poster Room Foyer – Victoria Room Foyer

(finger food & refreshments provided and cash bar)

DAY 3 – December 3

Session IV. **What we breathe: Cannabis and vaping**

Chair – Ed Krol Co-chair – Aaron Shapiro

8:15-8:25 **AFSA Master Class in animal-free safety assessment of cosmetics and cosmetic ingredients**

Shaarika Sarasija (Humane Society International/ Canada)

8:25-8:30 **Opening remarks**

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 Baglolle (McGill)

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

Jibran Khokar (Western)

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

Session V. **Where we live: Environmental exposures**

Chair – Ria Falvo Co-chair – Clara Cho

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)

11:55-12:55 **Lunch**

12:55-1:40 **Gabriel Plaa Award**-Robin Walker
Introduction - Chris Nicol, Terence R.S. Ozolinš and Louise Winn

1:40-2:35 **Short oral Presentations, Selected Trainee Posters**
(10 min) *Chair - Clotilde Maurice Co-chair - Ria Falvo*
1:40-1:50 Cristina Monaco *McMaster University*
1:50-2:00 Antoine Gillet *Institut National de la Recherche Scientifique*
2:00-2:10 Natasha Iaboni *Queen's University*
2:10-2:20 Ke Xu *McGill University*
2:20-2:30 Question Period

2:30-2:50 **Break**

Session VI. Forensic toxicology: What we ate, what we breathed, where we lived
Chair – Ed Krol Co-chair – Newton Tran

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)

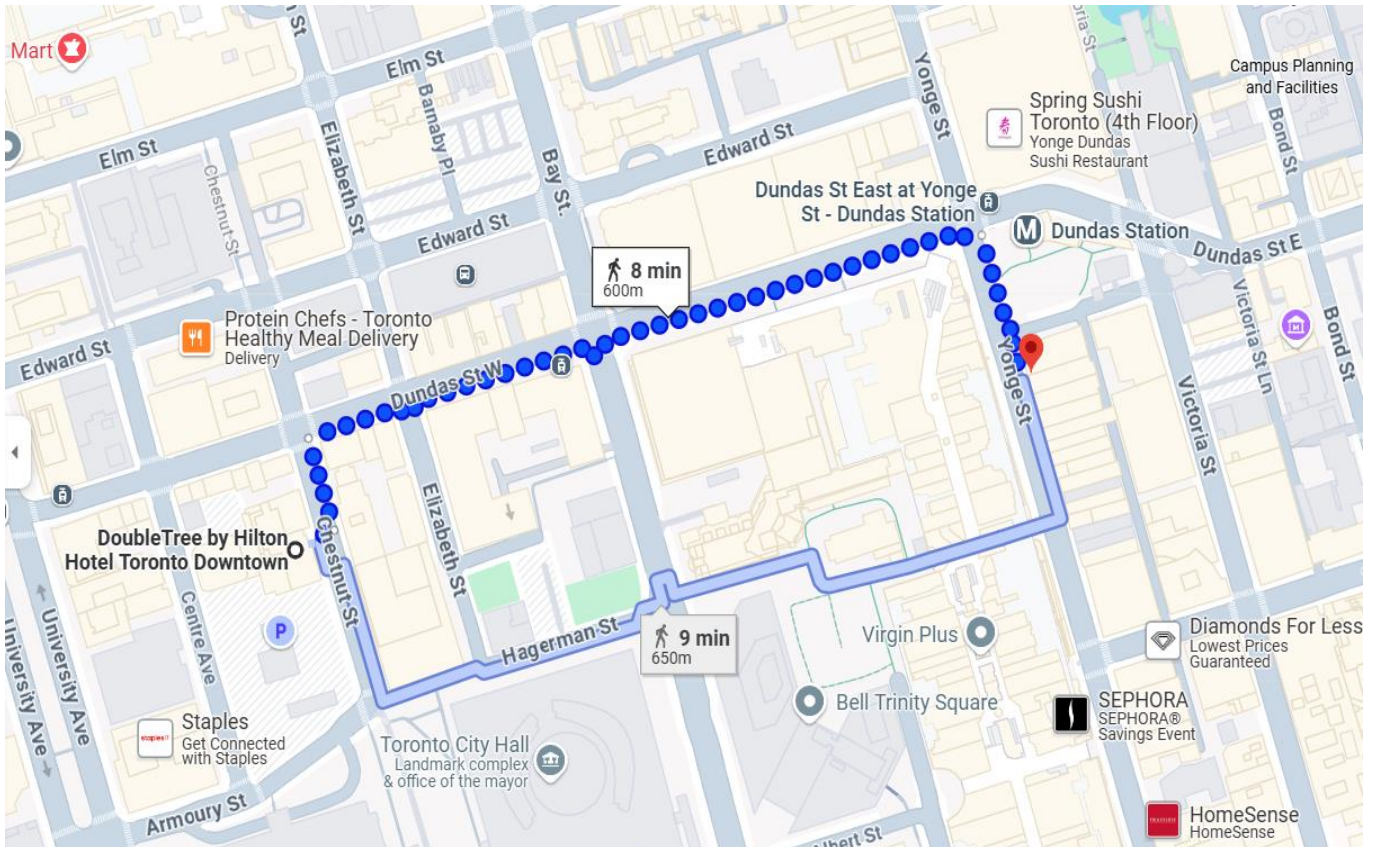
Meet and Greet Location

Sunday, December 1, 7-9 pm / Dimanche, 1re décembre de 19h à 21h

3 Brewers Pub, 3 Brasseurs

275 Yonge St East side of Yonge St just S of Dundas (800 m South of the Hotel)

275 Rue Yonge (Coté est), au sud de Dundas (800 mètres au sud de l'hôtel)



2025 STC Annual Symposium - Ottawa

Title: When the Nature is becoming toxic, learn from the past to protect the future.

1. Toxicological perspective on climate change
2. Natural toxicity of botanical products and food
3. Environmental and health impact of post-consumer and pharmaceutical waste
4. Green chemistry and pharmaceutical

Keynote speaker: Robert Barouki MD, PhD, is Professor of Biochemistry at University of Paris and head of the Inserm unit T3S: “Toxicology, Therapeutic Targets, cellular Signaling and Biomarkers”. He also heads the clinical metabolomics and proteomic biochemistry laboratory at the Necker Enfants malades hospital. His research is focused on the impact of environmental contaminants on human health, in particular POPs and EDCs. He is involved in several EU projects: HBM4EU (linking exposure to health), Heals and Neurosome (exposome), HERA (setting the research agenda in environment and health) and Oberon (EDC testing). He has also been involved in the networking of French and European research in the field of environment and health as well as in communicating scientific data to citizens.

Sponsors Acknowledgement

We would like to extend our sincere thanks to the following organizations for their valuable contributions to the Society of Toxicology of Canada. We are grateful for your generosity and commitment to help us fulfill our mission of promoting and advancing the field of toxicology in Canada. Your partnership is truly appreciated, and we look forward to continuing our collaboration in the future.

Remerciements des Sponsors

Nous souhaitons exprimer nos sincères remerciements aux organisations suivantes pour leurs précieuses contributions à la Société de toxicologie du Canada. Nous sommes reconnaissants de votre générosité et de votre engagement à nous aider à remplir notre mission de promouvoir et de faire progresser le domaine de la toxicologie au Canada. Votre partenariat est vraiment apprécié et nous sommes impatients de poursuivre notre collaboration à l'avenir.

GOLD SPONSORS



**HUMANE SOCIETY
INTERNATIONAL**

CANADA



SILVER SPONSORS



BRONZE SPONSORS



Robin Walker
Consulting

FRIEND AND EXHIBITORS

