



50th Annual Symposium / 50^e Symposium Annuel

December 10th – 12th, 2018

Courtyard by Marriott Toronto Downtown

475 Yonge St

Toronto, ON

M4Y 1X7

**WHAT'S IN A NAM? (NOVEL APPROACH
METHODOLOGIES) BENEFITS/
LIMITATIONS/TRANSLATION/COMMUNICATION**

**QU'EST CE QUE LES NAM? (NOUVELLES
APPROCHES MÉTHODOLOGIQUES)
AVANTAGES/LIMITES/INTERPRÉTRATION/
COMMUNICATION.**

Organized by / Organisé par:

SOCIETY OF TOXICOLOGY OF CANADA
LA SOCIÉTÉ DE TOXICOLOGIE DU CANADA

Program Committee / Comité du programme:

Elaine Leslie, University of Alberta, Chair and Academic Member

Ella Atlas, Health Canada, Government Member

Joanne Wan, Intertek, Industry Member

Local Organizing Committee/Comité organisateur local:

Tania Onica, Grazyna Kalabis, and Sara Tavakoli, Ontario MECP

Eric Liberda, Ryerson University

David Riddick, University of Toronto

Sponsors

La Société de Toxicologie du Canada tient à remercier les organisations suivantes pour leurs précieuses contributions et le soutien financier.

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Monday, December 10th PM

- 2:00 – 5:00 STC Board Meeting
- 7:00 – 9:00 **Welcome Reception**
Location: 3 Brewers, 275 Yonge Street, Toronto, ON M5B 1N8

Tuesday, December 11th AM

- 7:30 Registration / Breakfast
Location: Courtyard Foyer (ground level, Marriott)
- 8:45 Opening Remarks
Angela Hofstra, STC President, Syngenta Canada, Guelph, Ontario
- 8:50 **SESSION I: Alternative Approaches to Toxicity Testing**
Co-Chairs: Charu Chandrasekera, University of Windsor, Windsor, Ontario
Troy Seidle, Humane Society International, Toronto, Ontario
- 08:50-9:00 **Charu Chandrasekera**, University of Windsor, Windsor, Ontario
“Overview of the New Canadian Centre for Alternatives to Animal Methods”
- 09:00-9:30 **Anna Lowit**, Senior Science Advisor, Office of Pesticide Programs, Environmental Protection Agency, Washington, DC
“Recent Progress on Implementing New Approach Methodologies at USEPA”
Sponsored By: Canadian Centre for Alternatives to Animal Models, University of Windsor
- 9:30-10:00 **Milica Radisic**, Professor and Canada Research Chair (Tier 2), Institute of Biomaterials and Biomedical Engineering, University of Toronto, Toronto, Ontario
“Engineering Atrial and Ventricular Cardiac Tissues for Drug Testing.”
- 10:00-10:30 **Michael-Rock (Rocky) Goldsmith**, Computational Discovery Chemistry Lead, Bayer U.S., Chesterfield, Missouri
“Molecular De-risking by Design: Modeling and Simulation to Advance Safer Chemistries”
- 10:30-11:15 **Coffee Break and Poster Viewing**
- 11:15-11:45 **Carole Yauk**, Health Canada, Ottawa, Ontario
“Dose-response Modelling of Transcriptomic Data: Progress and Potential for Risk Assessment Applications.”
- 11:45 to 12:15 **Andy Nong**, Health Canada, Ottawa, Ontario
“Good and New Computational Practices for 21st Century Risk Assessment.”

- 12:15-1:30** **Lunch and Poster viewing** (*judging*)
- SESSION II: Alternative Approaches to Toxicity Testing Continued**
Chair: Elaine M. Leslie, University of Alberta, Edmonton, Alberta
- 1:30-2:00** **Yadvinder Bhuller**, Health Canada, Ottawa, Ontario
 “New Approach Methodologies – Is there another way to address the underlying regulatory question?”
- 2:00-2:45** **KEYNOTE TALK: George Daston**, Victor Mills Society Research Fellow at The Procter & Gamble Company, Cincinnati, Ohio
 “New Approaches for Predicting Toxicity”
- 2:45-3:15** **Break/Poster viewing** (*Judging*)
- SESSION III**
- 3:15-4:00** **Gabriel Plaa Award Lecture**
Chair: Angela Hofstra, Syngenta Canada, Guelph, Ontario
- Peter G. Wells**, University of Toronto, Toronto, Ontario
 “A Novel Developmental Role for 'Tumor' Suppressor Genes in Protecting the Fetus From Reactive Oxidative Species.”
- 4:00** **MEMBERS - STC Annual Business Meeting**
- 4:00** **Student/Post-doctoral Fellow Mentoring Session**
Alternatives to Academic Careers
Location: Courtyard Hall
Co-chairs: Shama Bhatia, PhD candidate, University of Toronto, Toronto, Ontario
 Marc Bossou, PhD candidate, Université de Montréal, Montreal, Quebec
Speakers/Participants:
 Margaret Magdesian, Ananda Devices, Montreal, Quebec
 Carole Yauk, Health Canada, Ottawa, Ontario
 Anna Lowit, Environmental Protection Agency, Washington, D.C.
 David Clarke, Pfizer Inc, Pearl River, New York
 Rocky Goldsmith, Bayer U.S., Chesterfield, Missouri
 Tania Onica, Ontario MECP, Toronto, Ontario
- 6:00** **President’s Reception, 50th Reunion, and STC Awards**
Location: Batch, 75 Victoria St, Toronto, M5C 2B1
ToxTrivia – Challenge your knowledge of toxicology, STC history, and the 2018 STC symposium talks and posters!

Wednesday, December 12th AM

- 7:30 Breakfast
- 8:25 **SESSION IV: Translational Toxicology**
Chair: Ella Atlas, Health Canada, Ottawa, Ontario
- 8:30-9:00 **Jack Uetrecht**, Professor of Pharmacy and Medicine, Leslie Dan Faculty of Pharmacy, University of Toronto, Toronto, Ontario
“Finally, a Valid Animal Model of Idiosyncratic Adverse Drug Reactions”
- 9:00-9:30 **David Clarke**, Drug Safety Research and Development, Pfizer Inc, Pearl River, New York
“Challenges in the Preclinical Assessment of Efficacy and Safety for Immune Oncology Products.”
- 9:30-10:00 **Eric Liberda**, School of Occupational and Public Health, Ryerson University, Toronto, Ontario
“Indigenous Knowledge Holders and the “Two-Eyed Seeing” Approach to Environmental Health Investigations.”
- 10:00-10:25 **Coffee Break and Poster Viewing**
- 10:25 **SESSION V: INVITED TRAINEE PLATFORM PRESENTATIONS**
Chair: Christopher Nicol, Queen’s University, Kingston, Ontario
- 10:30 **Amy Hoff**, MSc Candidate, University of Guelph, Guelph, Ontario
Abstract #26: “Searching for Binding Partners of Human Glutathione Transferase Theta1- a Moonlighting Protein?”
- 10:45 **Shama Bhatia**, PhD Candidate, University of Toronto, Toronto, Ontario
Abstract #4: “Oxoguanine Glycosylase 1 Knockout Mice Exhibit Increased Sex-dependent Cerebellar and Hippocampal DNA Strand Breaks and Postnatal Brain Function Disorders.”
- 11:00 **Rita-Josiane Gouesse**, PhD Candidate, INRS, Laval, Quebec
Abstract #23: “Brominated Flame Retardants: Perinatal Exposure to an Environmentally-Relevant Mixture Disrupted Cell-Cell Interactions and Thyroid Homeostasis in Rat Mammary Glands at Puberty”
- 11:15 **Camila Gonçalves Athanasio**, Postdoctoral Fellow, McGill University, Montreal, Quebec
Abstract #21: “Effects of Early-life Exposure to AHR Ligands in Chicken Embryos: Epigenetic Regulation and Interindividual Variation.”

- 11:30** **SESSION VI: Risk Communication and Assessment**
Chair: Joanne Wan, Intertek, Mississauga, Ontario
- 11:30-12:10** **Ron Brecher and Trevor Smith Diggins**, RiskPartners.ca, Guelph, Ontario
“Risk Communication: Make the Science Make Sense”
- 12:10-1:10** **Lunch (and Poster Takedown)**
- 1:10** **Lois Haighton**, Director, Toxicology & Regulatory Affairs, Food and Nutrition,
Intertek, Mississauga, Ontario
“Risk Assessment of Cannabis, Not Just Another Food Ingredient”
- 1:40** **Andrea Amendola and Ruwan Jayasinghe**, Golder, Mississauga, Ontario
“Applications of Toxicology in Support of Human Health Risk Assessments”.
- 2:15** **Miriam Diamond**, Professor, Department of Earth Sciences, University of
Toronto, Toronto, Ontario.
“The Gulf Between Stakeholders Illustrated by Flame Retardants in Electronic
Products.”
- 2:45-3:00** Closing