



51st Annual Symposium / Le 51^e symposium annuel

Optimizing testing strategies and exploring novel mechanisms of human and environmental toxicants

December 2-4, 2019

Shaw Centre

Ottawa, ON

Program Outline

SOCIETY OF TOXICOLOGY OF CANADA
LA SOCIÉTÉ DE TOXICOLOGIE DU CANADA

President: Angela Hofstra, Syngenta Canada Inc.

Vice President: Geraldine Delbes, INRS

Past President: Michael Wade, Health Canada

Program Committee / Comité du programme:

Ella Atlas, Health Canada

Joanne Wan, Intertek Canada

Isabelle Plante, INRS

Monday December 2

7:00 pm Welcome Reception

Tuesday December 3

7:30 am Registration Shaw Centre

8:50 am Welcome and Opening Remarks: Angela Hofstra, STC President (Syngenta Canada, Guelph, ON)

9:00 am Session 1: Alternative models for predicting human toxicity

Rocky Goldsmith (Lead Computational Discovery Chemistry, Bayer Crop Science, USA): In silico models for evaluating mode of action of toxicants.

Margaret Magdesian (CEO Ananda Devices, Montreal, Canada): Neurons - on a chip can we better predict neurotoxicity?

Coffee break and poster viewing

Kessen Patten (Institut National de la Recherche Scientifique, Montreal, Canada): Zebrafish models of human neurological diseases and drug discovery.

Alisa Vespa (Health Canada): Replacement of the rodent carcinogenesis 2 year study – what are the alternatives

Lunch and poster viewing

1:15 pm Session 2: Transgenerational Effects – “You are what your grandfather ate”

Janice Bailey (Laval University, Canada): Reproductive effects of Arctic pollutants.

Francesco Marchetti (Health Canada) Standardized testing for transgenerational mutagens.

Vance Trudeau (University of Ottawa): Exposure to the antidepressant fluoxetine (Prozac) and transgenerational effects in zebrafish.

Coffee Break and Poster viewing

Keynote Lecture: Jodi Flaws (University of Illinois at Urbana-Champaign, USA) Epigenetic germline effects of environmental pollutants.

Student Mentoring Event & STC Annual Business Meeting

6:00 pm President's Reception and STC Awards

Wednesday December 4

8:00 am Registration

8:30 am Session 3: Thinking outside the reproductive organs: novel toxicity mechanisms of EDCs.

Jenny Bruin (Carleton University, Ottawa, Canada): Dioxin effects on human primary pancreatic beta cells generated from stem cells.

Vian Peshdary (Health Canada): Dechlorane Plus inhibits insulin signalling in mice.

Errol Thomson (Health Canada): Health Effects of Air Pollution are mediated through changes in HPA axis.

Coffee break and poster viewing

Session 4: Plaa Award Presentation and Lecture

Session 5: Invited Trainee (Students/Postdoctoral Fellows) Platform Presentations

Lunch and poster takedown

Session 6: Assessment of effects of environmental pollutants on humans & other species

Valerie Langlois (Institut National de la Recherche Scientifique; Montreal, Canada): Biomarkers of toxicity in frogs or toxicity of bitumen in fish.

Doug Crump (Environment and Climate Change Canada): How to predict EDC effects in Wild birds.

Beverley Hale (University of Guelph, Canada): Nickel; risk assessment on exposure from soil.

Closing Remarks