



43nd Annual Symposium / Le 43^e symposium annuel

December 4 – 6, 2011
Delta Centre-Ville
777 University
Montreal, Quebec
H3C 3Z7
Tel. 514-879-1370

Low Dose Effects and Their Use in Risk Assessment: When is an Effect Adverse?

**Les effets de faibles doses et le recours à ceux-ci
dans l'évaluation des risques: Dans quels cas un
effet est-il nocif?**

Organised by / Organisé par
SOCIETY OF TOXICOLOGY OF CANADA
LA SOCIÉTÉ DE TOXICOLOGIE DU CANADA

Programme Committee / Comité du programme
Douglas Bryant, Intrinsic Science Inc., chair
Sami Haddad, Université de Montréal
Jayadev Raju, Health Canada

Sunday Dec 4 PM

1:00 – 5:00 STC Board meeting - Room 532

7:00 – 9:00 Student mentoring session - Room 2810

Low Dose Effects and Their Use in Risk Assessment: When is an Effect Adverse?

Monday Dec 5 AM

7:30 Registration / Continental Breakfast - Foyer Régence AB

8:30 **Roger Keefe**, Imperial Oil, President STC
Opening remarks and Introduction

Session I: Low Dose Risk Assessment, Theory and Practice
Chairperson: Douglas Bryant, Intrinsik Science Inc

8:40 Introduction

8:45 **Dan Krewski**, McLaughlin Centre for Population Health Risk Assessment,
University of Ottawa
New Directions in Toxicity Testing: Understanding Key Events in Toxicity
Pathways at Low Doses

9:30 **James Bus**, Dow Chemical Company
Low Dose Risk Assessment: Experimental Verification of Extrapolation from
High Doses

10:15 **Coffee break and poster session**

10:45 **Edward Calabrese**, University of Massachusetts
Hormesis: Its Significance for Toxicology, Pharmacology and Risk
Assessment

11:30 **Poster Presentations (2) – to be selected**

12:00 **Lunch**
Poster Session + Cantox Award Judging - Régence B

Monday Dec 5 PM

Session II: Adverse Effects – Biological Perturbations at Low Exposure

Chairperson: Douglas Bryant, Intrinsic Environmental Sciences

1:10 Introduction

1:15 Carole Yauk, Health Canada
Effects of Air Pollutants on Male Germ Cells at Environmentally Relevant Exposure Levels

2:00 Craig Parfett, Health Canada
Assessment of Subclinical Changes in Hepatic Gene Expression Profiles after Low Dose, Short Term Exposures

2:45 Coffee break and poster session

3:15 Catherine Klein, New York University Langone Medical Center
Epigenetic Mechanisms: Transgene Silencing by Estrogens and Xenoestrogens

4:00 Poster Presentations (2) – to be selected

4:30 Workshop Toxicogenomics : Experimental Design & Data Analysis of Microarray Studies – Régence A
Instructors: Craig Parfett and Andrew Williams, Health Canada

4:30 Annual Business Meeting - St-Laurent

6:00 President's reception & STC awards – La Terrasse

ToxQuiz – an animated challenge to your knowledge of Toxicology, risk assessment and posters at STC 2011

Host: Sami Haddad

Tuesday Dec 6 AM

7:00 Continental Breakfast - Foyer Régence AB

Session III: Carcinogenesis and Low Exposure Toxicology
Chairperson: Sami Haddad, Université de Montréal

8:00 Introduction

8:05 **Henderson Award Lecture**
To be announced

8:50 **Julian Preston**, NHERL, US EPA, Research Triangle Park, NC
Risks at Low Doses of Radiation: Implications for Diagnostic Radiology

9:35 **Coffee break and poster session**

10:05 **James Swenberg**, University of North Carolina
Endogenous vs. Exogenous DNA Adducts: Their Role in Carcinogenesis,
Epidemiology and Risk Assessment

10:50 **Carlos Sonnenschein**, Tufts University
Tissue Organization Field Theory – a Replacement for the Somatic Mutation
Theory of Cancer

11:35 **Poster session (please remove posters by 1:00)**

12:00 **Lunch**

Tuesday Dec 6 PM

Session IV: Low Dose Toxicity in Humans

Chairperson: Jayadev Raju, Health Canada

- 1:00** Introduction
- 1:05** **Robert Schnatter**, ExxonMobil Biomedical Sciences Inc
New Benzene Findings in Occupational Epidemiologic Studies and
Implications for Benzene Risk Assessment
- 1:50** **D. H. Garabrant**, University of Michigan
The University of Michigan Dioxin Exposure Study: Predictors of Human
Serum Dioxin Concentrations in Midland and Saginaw, Michigan
- 2:35** **Summary and Closing Remarks**
Roger Keefe, Imperial Oil, President STC
- 3:00** **Adjourn**