



SGC



Frontiers in Epigenetics and Chromatin Signaling

Friday, September 21st, 2007

The MaRS Centre Auditorium (www.marsdd.com)
101 College St. Toronto Ontario Canada

Hosted by the SGC
www.TheSGCOnline.org

Chromatin biology and epigenetics is a fast-growing field at the frontier of modern biology, with considerable impact on fundamental mechanisms of human health and disease. Research in this area is necessarily cross-disciplinary in order to understand the effects of epigenetic modifications of the genome in the context an organism, its development and disease states. This symposium brings together scientists at the forefront of epigenetics and chromatin biology research to discuss state-of-the-art findings and to look into future trends in epigenetics and related fields of gene regulation, development, molecular recognition and signaling.

AGENDA:

8:00 am *Light Breakfast*

8:30 am **Opening Remarks**

Dr. Cheryl Arrowsmith, Chief Scientist, Structural Genomics Consortium, University of Toronto

SESSION 1: Epigenetics Mechanism in Disease

CHAIR: Dr. Jinrong Min, Principal Investigator, Structural Genomics Consortium, University of Toronto

8:45 am ***The Dynamic Epigenome: MBD2 DNA Demethylation Behavior and Cancer***

Dr. Moshe Szyf, McGill University

9:15 am ***The Role of Epigenetics in Stem Cell Maintenance***

Dr. Guy Sauvageau, Hôpital Maisonneuve-Rosemont, Centre de Recherche Guy-Bernier

9:45 am ***Interpreting the Histone Code: Multivalency in Chromatin Engagement***

Dr. Alex Ruthenburg, The Rockefeller University

10:15 am *Coffee Break*

SESSION 2: Mechanisms of Transcriptional Regulation

CHAIR: Dr. Peter Cheung, Canada Research Chair, Chromatin Regulation

10:30 am **TBA**

Dr. Robert Roeder, The Rockefeller University

11:00 am ***Guided by COMPASS on an Expedition Defining the Role of MLL and its Histone Methylase Function in Leukemogenesis***

Dr. Ali Shilatifard, Stowers Institute for Medical Research

11:30 pm ***Histone and Factor Modifications in Genome Regulation***

Dr. Shelley Berger, The Wistar Institute

12:00 pm *Lunch*

SESSION 3: Histone Modification and Chemical Biology

CHAIR: Dr. Udo Oppermann, Principal Investigator, Structural Genomics Consortium, Oxford

1:00 pm ***Histone Demethylation by a Family of JmjC Domain-Containing Proteins***

Dr. Robert Klose, Howard Hughes Medical Institute, University of North Carolina

1:30 pm ***Coordinated Functions of Histone Modifying Enzymes***

Dr. Yali Dou, University of Michigan

2:00 pm **TBA**

Dr. Christopher Schofield, University of Oxford

2:30 pm ***Roles of MYST Family Histone Acetyltransferase Complexes in Genome Expression and Maintenance***

Dr. Jacques Côte, Laval University Cancer Research Center

3:00pm **Closing Remarks**

Dr. Cheryl Arrowsmith, Chief Scientist, Structural Genomics Consortium, University of Toronto

**NO
REGISTRATION
REQUIRED**

For more information, please contact: Alex.Hodgson@utoronto.ca

