

# SGC



# Structural Genomics Consortium

## Symposium on Structural Genomics

Wednesday, May 2<sup>nd</sup>, 2007

The Residence Amphitheatre  
90 Gerrard St. Toronto Ontario Canada

*An International Symposium Integrating Structural Biology, Signalling Biology, Bioinformatics and Chemical Biology.*

### Agenda

#### Structural Genomics from Multiple Perspectives

- 8.30 – 9.00 Light Breakfast
- 9.00 – 9.05 Welcome and Introduction – *Dr. Cheryl Arrowsmith, Structural Genomics Consortium, University of Toronto*
- 9.05 – 9.35 Structural Genomics: Technologies and structures for biology and medicine  
*Dr. Tom Terwilliger, Los Alamos National Laboratory*
- 9.35 – 10.00 Structural Genomics of *P. falciparum* and related human parasites: toward identification of novel therapeutics for Malaria and cryptosporidiosis  
*Dr. Raymond Hui, Principal Investigator, Structural Genomics Consortium, University of Toronto*
- 10.00 – 10.30 Structural Genomics of the human ubiquitylation system  
*Dr. Sirano Dhe-Paganon, Principal Investigator, Structural Genomics Consortium, University of Toronto*

10.30 – 11.00 Coffee break

#### Chromatin Remodeling Enzymes: Structural Assessment of Function, Mechanism and Druggability

- 11.00 – 11.30 Structure of the human histone demethylase, JMJD2A, and its complexes.  
*Dr. Udo Opperman, Principal Investigator, Structural Genomics Consortium, University of Oxford*
- 11.30 – 12.00 Histone interacting domains: combinatorial recognition of histone marks.  
*Dr. Jinrong Min, Structural Genomics Consortium, University of Toronto*
- 12.00 – 12.30 Histone deacetylases: toward class-specific inhibitors  
*Dr. Matthieu Schapira, Structural Genomics Consortium, University of Toronto*

12.30 – 1.30 Lunch

#### Tools for Structural Genomics, Structural Biology and Chemical Biology

- 1:30 – 2.00 New approaches for understanding substrate specificity in large protein families: The sulfotransferases and short chain dehydrogenase/reductase families  
*Dr. Janet Thornton, European Bioinformatics Institute*
- 2.00 – 2.30 HKL-3000 : Towards the future of protein crystallography  
*Dr. Wladek Minor, Department of Molecular Physiology and Biological Physics, University of Virginia*
- 2.30 – 3.00 Interpretation and Visualisation of Human Protein Kinase Structures using iSee - an Intuitive and Integrated Structural Annotation Platform  
*Dr. Brian Marsden, Principal Investigator, Structural Genomics Consortium, University of Oxford*

3.00 – 3.30 Coffee break

#### Protein Families and Signalling Pathways:

- 3.30 – 4.00 New twists on the structure and function of familiar metabolic kinases  
*Dr. Hee-Won Park, Structural Genomics Consortium, University of Toronto*
- 4.00 – 4.30 Structural insights from emerging drug target classes in nucleic acid metabolism: RNA DEAD-box helicases and PARPs  
*Dr. Lovisa Holmberg-Schiavone, Structural Genomics Consortium, Karolinska Institutet*
- 4.30 – 5.00 Closing Remarks: Large scale collaborative science; the Human Genome Project and beyond  
*Dr. Michael Morgan, Genome Canada*

5.00 – 6.30 Reception

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