

## Histone methyltransferases; Structure, Mechanism and Inhibition

Thursday August 21<sup>st</sup> 2014

MacLeod Auditorium (Medical Sciences Building, University of Toronto)  
Toronto, Canada

### Programme

9:00-9:25 Opening Remarks, [Chemical Probes for Methyltransferases](#)  
Masoud Vedadi

#### Protein Arginine Methyltransferases (PRMTs)

9:30-10:00 Ernesto Guccione, Institute of Molecular and Cell Biology (IMCB), Singapore  
["Dissecting the role of PRMT5: learning from development to target splicing in cancer therapy"](#)

10:05-10:35 Mark Bedford, University of Texas, USA  
["Arginine methylation – enzymes, readers & inhibitors"](#)

10:40-11:10 Adam Frankel, University of British Columbia, Canada  
["Peptides and small molecules get into the PRMT groove"](#)

11:15-11:30 Coffee break

#### Medicinal Chemistry

11:30-11:55 Dafydd Owen, Pfizer, Cambridge, MA  
["A First in Class Chemical Probe for SETD7"](#)

12:00-12:25 Rima Al-Awar, Ontario Institute for Cancer Research, Toronto  
["The Discovery and Optimization of Small Molecule Antagonists of the WDR5-MLL Interaction."](#)

12:30-12:55 Ramzi Sweis, AbbVie, Chicago, IL  
["Discovery of A366, a Potent and Selective Inhibitor of Histone Methyltransferase G9a."](#)

1:00-2:00 Lunch

#### Protein Lysine Methyltransferases (PKMTs)

2:00-2:30 Yali Dou, University of Michigan, USA  
["Characterizing and Targeting histone methyltransferase MLL1".](#)

2:35-3:05 Jean-Francois Couture, University of Ottawa, Canada  
["Structural studies of Ash2L; a multitasking trithorax protein "](#)

3:10-3:40 Raymond Trievel, University of Michigan, USA  
["Mechanistic Roles of Carbon-Oxygen Hydrogen Bonds in SET Domain Lysine Methyltransferases"](#)

3:45-4:15 Albert Wong, University of Toronto, Canada  
["Behavioural effects of histone methyltransferase inhibitors in the mouse"](#)

4:20-4:45 Closing remarks  
Cheryl Arrowsmith

#### Organizing Committee

Masoud Vedadi  
Cheryl Arrowsmith  
Santha Santhakumar

Supported by the Department of  
Pharmacology and Toxicology  
University of Toronto

The symposium is open to all and there is no registration fee. To enable us to manage the symposium better we would like to ask you to register in advance. Lunch will be provided only to registered participants (<http://www.thesgc.org/symposia/toronto/MTase-2014>).