

Event Program

December 9th 2010. Gilmour Hall 111 (Council Chambers)

Morning Session

- 9:00 – 9:25 am Arrival / Check-in and registration
- 9:25-9:30 am Welcome and opening remarks.
Joaquin Ortega and Gianluigi Botton. McMaster University
- 9:30-10:10 am Howard Young. University of Alberta
Electron crystallography and helical reconstruction of imperfect specimens
- 10:10-10:30 am Lindsay Baker. University of Toronto
The structure of mammalian ATP synthase by single particle electron cryomicroscopy
- 10:30-10:50 am Ahmad Jomaa. McMaster University
Cryo-EM structure of the 30S ribosomal subunit bound to the assembly factor YjeQ
- 10:50-11:10 am **Coffee Break**
- 11:10-11:40 am John Rubinstein. University of Toronto
Moving to high resolution: better images and better image alignment for single particle cryo-EM of small, asymmetric protein complexes
- 11:40-12:00 pm Kevin Cheung. McMaster University
A cautionary tale: Alternative oligomeric states of the yeast Rvb1/Rvb2 complex_ induced by histidine tags
- 12:00-1:30 pm Lunch**
- 12:00-1:30 pm** Demos at the CCEM. Andreas Korinek. McMaster University
High-throughput cryo-EM data collection in the FEI Titan Electron Microscope using the TOM² software

Afternoon Session

- 1:30-2:10 pm Derek Taylor. Case Western, Cleveland. OH. USA
The molecular mechanism of protein synthesis in eukaryotes
- 2:10-2:40 pm Cesar Khursigara. University of Guelph
Cryo-electron tomography: elucidating macromolecular structures and cellular architecture
- 2:40-3:00 pm Wilson Lau. University of Toronto
Structure of the Thermus thermophilus vacuolar-type ATPase at 11 Å resolution
- 3:00-3:20 pm **Coffee Break**
- 3:20-3:50 pm Martin Schmeing. McGill University
Structural insights into the decoding step of protein synthesis
- 3:50-4:15 pm Marc Storms. FEI
Latest developments in Cryo TEM
- 4:15-4:45 pm Joaquin Ortega. McMaster University
Degrading under the influence. Using small molecules to understand large protein complexes
- 4:45-5:00 pm Closing remarks and student's awards (Sponsored by FEI/SFR and JEOL Canada)