

INCF Canadian Neuroinformatics Workshop

A satellite symposium of the CAN 2012 meeting

(co-organizers: INCF, NeuroDevNet)

Thursday May 24th, Sheraton Wall Centre, Vancouver, BC

9:00 am

Dr. Paul Pavlidis, Scientific Director,
NeuroDevNet Neuroinformatics Core
Introduction and Welcome

Session 1: International Neuroinformatics Coordinating Facility INCF

9:15 am

Dr. Sean Hill, INCF Executive Director,
Karolinska Institute, Stockholm
*Role of INCF: Toward a Global Collaborative
Infrastructure for Neuroscience*

9:55 am

Dr. Maryann Martone, UCSD, La Jolla, CA
Navigating the Neuroscience Data Landscape

10:25 am

Dr. Rob Williams, Department of Anatomy and
Neurobiology and Center for Integrative and
Translational Genomics, UTHSC, Memphis, TN, USA
*Atlases, Genomes, and Genetics: An International Tool Set
to Help Understand Brain Function*

10:55 - 11:10 am
Coffee break

Session 2A: Neuroinformatics in Canada - Neuroimaging

11:10 am - 12:35 pm

Dr. Alan Evans, MNI, McGill, Montreal, QC
CBRAIN: A Global HPC Portal for Brain Imaging Research
Dr. Todd Woodward, UBC, Vancouver, BC
*Relating Functional Networks to Experimental Conditions:
CPCA for fMRI and MEG Data*
Dr. Christian Beaulieu, U. of Alberta, Edmonton, AB
*The Power and Perils of the Diversity of Quantitative
Structural Brain Imaging in Clinical Studies*
Dr. Stephen Strother, Baycrest,
U. of Toronto, Toronto, ON
*Ontario Experience with the XNAT-based Stroke
Patient Research Recovery Database*

12:35 - 1:35 pm

Lunch (provided in Sheraton)

Session 2B: Neuroinformatics in Canada - Computational Modelling

1:35 - 2:40 pm

Dr. John Tsotsos, Computer Science & Engineering and
Centre for Vision Research, York U., Toronto, ON
*Attending via Selective Tuning: From Computational First
Principles to Predictions and Experiment*
Dr. Gunnar Blohm, Queen's U., Kingston, ON
*Theoretical Bridges between Behaviour and
Neurophysiology in Sensory-motor Function*
Dr. Matthijs van der Meer, CTN, U. Waterloo, ON
Model-based Prediction in the Rodent Hippocampus

Session 2C: Neuroinformatics in Canada - Clinical Neuroinformatics

2:40 - 3:00 pm

Dr. Ibolja Cernak, U. of Alberta, Edmonton, AB
*Military Relevant Traumatic Brain Injury Research -
Challenges and Opportunities*

3:00 - 3:20 pm
Coffee break

Session 2D: Neuroinformatics in Canada - Neurogenomics

3:20 - 4:00 pm

Dr. Paul Pavlidis, CHiBi, UBC, Vancouver, BC
Neurogenomics and Knowledgebases
Dr. Dan Goldowitz, CMMT, UBC, Vancouver, BC
*The Intersection of Biology and Informatics for Insights into
the Regulation of Genes in Cerebellar Development*

4:00 pm Discussion

Discussion about the strategies for forming
an INCF national node, and the benefits of
having such a node in Canada

7:00 pm
Dinner (invitation only)