

Neurolipidomics 2010

Monday November 22, 2010



Canadian Museum of Nature
240 McLeod Street, Ottawa ON

8:00 8:30 Registration and opening remarks

8:30 9:50 SESSION 1: cataloguing diversity - the glycerophospholipidome

Short-talk: Camille Juzwik (uOttawa) and Carolina Cieniak (uOttawa)

Dr. Christa Studzinski (UofT)

Short-talk: Matthew Cooke (uOttawa) and Crystal Hanley (Carleton)

Dr. Hongbin Xu (uOttawa)

9:50 10:20 Coffee Break in theatre lobby

10:20 11:50 SESSION 2: the GPC interactome

Dr. Emdadul Haque (uOttawa)

Short-talk: Ruthanna Okosobo (uOttawa) and Andrew Syrett (uOttawa)

Dr. Leigh-Anne Swayne (uOttawa)

Nico Valenzuela (Carleton)

11:50 12:00 Scottish Rite Charitable Foundation Graduate Student Award Presentation

12:00 13:30 Lunch and poster session in theatre lobby

13:30 14:30 Keynote presentation

Dr. H. Alex Brown, Vanderbilt University

14:30 14:45 Break

14:45 16:05 SESSION 3: now what?

Dr. Michael Kennedy (uOttawa)

Dr. Corey Yanofsky (uOttawa)

Sarah Gelbard (Carleton)

16:05 16:30 Coffee Break in theatre lobby

16:30 17:30 Invited guest speaker

Dr. Greg Grabowski, Cincinnati Children's Hospital Medical Center

17:30 19:00 Reception and poster session in theatre lobby
Cash bar and light refreshments

10 min. short-talks

20 min. PPF talks

30 min. PDF talks

60 min. keynote

60 min. guest speaker

session 1

Camille Juzwik & Carolina Cieniak

Validating the impact of Cree medicine on the glycerophosphocholine lipidome in peripheral diabetic neuropathy

Dr. Christa Studzinski

Characterizing a novel protein-lipid-protein complex in Parkinson's Disease

Matthew Cooke & Crystal Hanley

Spatial and temporal modeling of the entry of lipid second messengers into neural stem cells over the course of specification: Step One

Dr. Hongbin Xu

Cyclic fluctuations in glycerophosphocholine metabolism over a 24h period in the murine temporal cortex

session 2

Dr. Emdadul Haque

Understanding the role of abnormal mitochondrial lipid species in Parkinson's disease

Ruthanna Okorosobo & Andrew Syrett

Profiling the Impact of Opa1 Null-Mutation on the Mitochondrial Glycerophospholipidome using High Performance Liquid Chromatography Electrospray Ionization Mass Spectrometry (LC-ESI-MS)

Dr. Leigh Anne Swayne

Mapping and validating the late-stage Alzheimer disease glycerophospholipidome

Nico Valenzuela

Visualization of lipid-protein interactions

session 3

Dr. Michael Kennedy

Identification and validation of the cellular targets involved in glycerophosphocholine lipid signalling

Dr. Corey Yanofsky

Evidential statistical analysis for neurolipidomics

Sarah Gelbard

Modeling lipidomic visualization in representational theory

poster presentations

Alexandre P. Blanchard

Specific alterations of glycerophosphocholine second messengers in a transgenic model of Alzheimer Disease

Weimin Hou

Lyso-form fragment ions facilitated the determination of stereospecificity of diacyl glycerophospholipids

Maxime W.C. Rousseaux

Uncovering the Glycerophospholipidome in an Animal Model of Parkinson's Disease

Jenna Boulanger

High-Fat Diet and Altered Cerebrovascular Function in TgCRND8 Mice

Stephanie Fowler

Protein interactions with oligodendrocytic Cx32 influence production and maintenance of the myelin sheath

Andrew Syrett

Bioactive glycerophospholipids and their role in modulating neuronal vulnerability following cerebral ischemia

Brett Hawley

Defining the platelet-activating factor receptor interactome

Ashleigh McLean

Examining the role of Cx32 in the regulation of myelin specific lipid levels following spinal cord injury

keynote speaker

H. Alex Brown, PhD

A Chemistry that 'Clicks' with Lipids

Dr. Brown is a Professor of Pharmacology, Biochemistry and Chemistry at Vanderbilt University School of Medicine. In 2003 Dr. Brown helped to launch the LIPID MAPS Initiative. The LIPID MAPS initiative is charged with defining the lipome of mammalian macrophages and has developed new nomenclature and classifications for lipids.

guest speaker

Greg Grabowski, MD

Lipidomics of Gaucher disease: Organ and mutation specificity

Dr. Grabowski is the Director of the Division of Human Genetics and Director of the Medical Genetics Training Program at the Cincinnati Children's Hospital Medical Center. He is also Professor of Pediatrics and Molecular Genetics, Biochemistry and Microbiology at the University of Cincinnati College of Medicine