

# CAN-ACN Satellite symposium by the Canadian Neurophotonics Platform

Sunday May 29<sup>th</sup>, 2016

Grand Ballroom West. Toronto Centre Sheraton Hotel

A satellite meeting of the 10<sup>th</sup> Annual Canadian Neuroscience Meeting, Toronto Canada.

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**8:30 REGISTRATION | Lobby**

**9:00 WELCOME: Yves de Koninck**

**9:15 SESSION 1- Chair : Jaideep Bains**

9:15 **Pierre Marquet:** Institut universitaire en santé mentale de Québec, Université Laval

*Quantitative phase-digital holographic microscopy to capture ultrafast cell dynamics at the nanoscale*

9:45 **Gautam Awatramani:** University of Victoria

*10 years of Optogenetics: Vision with real and artificial photoreceptors*

**10:15 COFFEE BREAK | Lobby**

**10:45 SESSION 2- Chair : Paul de Koninck**

10:45 **Mark Hutchinson:** Centre for Nanoscale BioPhotonics, University of Adelaide, Australia

*The Toll of Knowing you are sick: Implications for pain and addiction*

11:15 **Steven Prescott;** The Hospital for Sick Children, University of Toronto

*Measuring neuronal excitability in hard-to-reach places using optophysiology*

**11:45 LUNCH |**

**13:30 SESSION 3- Chair: Jean-Claude Béïque**

13:30 **Yves de Koninck:** Institut universitaire en santé mentale de Québec, Université Laval

*Decoding fluorescence noise to resolve protein oligomerization in intact tissue*

14:00 **André Longtin:** Brain and Mind Institute Centre for Neural Dynamics, University of Ottawa.

*Modeling pathological action potential propagation*

14:30 **Kurt Haas;** University of British Columbia

*Comprehensive neuronal activity imaging using AOD-based random-access two-photon microscopy*

**15:00 COFFEE BREAK | Lobby**

**15:30 SESSION 4- Chair: Ed Ruthazer**

15:30 **Antoine Godin;** Université de Bordeaux

*Single nanotube tracking reveals nanoscale organization of the live brain extracellular space*

16:00 **Simon Chen:** Brain and Mind Institute Centre for Neural Dynamics, University of Ottawa.

*Imaging Neural Ensembles During Learning in Awake Mice*

**16:30 CLOSING REMARKS: Yves de Koninck**

**17:00 Opening of the 10<sup>th</sup> Annual Canadian Neuroscience Meeting**

