

CAN-ACN SATELLITE SYMPOSIUM BY THE CANADIAN NEUROPHOTONICS PLATFORM

A satellite meeting of the 15th Annual Canadian Neuroscience Meeting

Wednesday May 12, 2022

Toronto Centre Sheraton Hotel

8:30 REGISTRATION | Lobby

9:00 WELCOME: Yves De Koninck (Canadian Neurophotonics Platform)

SESSION 1: The neurovascular world, multiple techniques to study its function and to access the brain.

Chair: Tim Murphy

9:20 **Bojana Stefanovic** (Sunnybrook Health Sciences Centre) *Multimodal imaging and functional assessments of traumatic brain injury*

9:50 **Meaghan O'Reilly** (Sunnybrook Research Institute) *Focused ultrasound – technological considerations, advances, and impact for neuroscience applications*

10:20 **COFFEE BREAK Lobby**

10:40 **Michelle Desjardins** (Université Laval) *Integrated modalities to study neurovascular coupling*

11:10 **Isabelle Aubert** (Sunnybrook Research Institute) *The delivery of adeno-associated viruses through the blood-brain barrier using focused ultrasound and the targeting of neuronal and glial populations*

11:40 **Lunch** (at your own)

SESSION 2: Optogenetics: Novel proteins, novel vectors, novel probes Chair: Marie-Eve Paquet

13:30 **Yi Shen** (University of Alberta) *Recent advances in engineering genetically-encoded optical indicators for neuronal activities*

14:00 **Sanggon Kim** (Université Laval) *Minimally invasive and high-efficiency optical microprobe for deep brain subcellular optogenetics*

14:30 **COFFEE BREAK Lobby**

14:45 **Jose Arquimides Echanove Juan** (ULaval) *Novel AAVs from the zoo*

15:15 **Sébastien Tremblay** (UPennsylvania) *Optimizing NHP optogenetics with an Open Science initiative*

15:45 CLOSING REMARKS: Yves De Koninck

17:00 Opening of the 15th Annual Canadian Neuroscience Meeting

Register [here](#)