

**Joint symposium of
McGill University (McGill) - National Institute for Physiological Sciences (NIPS)**

“Recent Advances in Neuroscience”

Date (Japan Time) : Jan 12(Wed), 13(Thu) in 2022, AM 09:00- AM 11:30

Date (Montreal Time) : Jan 11(Tue), 12(Wed) in 2022, PM 19:00- PM 21:30

Venue: Online (hosted by NIPS)

Day 1 (AM 9:00- 11:30 on Jan 12 (Japan), PM 19:00- 21:30 on Jan 11 (Montreal))

AM 9:00-

Opening remarks (Prof Nabekura, Prof Bowie)

Session 1 Chair: Derek Bowie (McGill)

AM 9:10- 9:40 (25 + 5 min)

Jesper Sjöström

Department of Medicine, McGill University

Mapping Visual Cortex Connectivity with 2-Photon Optogenetics

AM 9:40- 10:10 (25 + 5 min)

Hiroaki Wake

¹ Department of Anatomy and Molecular Cell Biology, Nagoya University Graduate School of Medicine, ² Division of Multicellular Circuit Dynamics, NIPS

Physiological and pathological functions of microglia

(group photo & break)

Session 2 Chair: Yoshihiro Kubo (NIPS)

AM 10:25- 10:45 (15 + 5 min)

Guillaume Etter

Department of Psychiatry, Douglas Research Centre, McGill University

Optogenetic control of hippocampal gamma rhythms rescues memory retrieval in Alzheimer's disease

AM 10:45- 11:05 (15 + 5 min)

Taiga Takahashi

Division of Biophotonics, NIPS

In vivo cortex-wide imaging of living mouse brain utilizing novel fluoropolymer nanosheet

AM 11:05- 11:25 (15 + 5 min)

Hovy Wong

Postdoctoral Fellow (Sjöström Lab)

Department of Medicine, McGill University

Axonal Translation Governs Synaptic Release

Day 2 (AM 9:00- 11:30 on Jan 13 (Japan), PM 19:00- 21:30 on Jan 12 (Montreal))

Session 3 Chair: Keith Murai (McGill)

AM 9:00- AM 9:30 (25 + 5 min)

Kazunobu Sawamoto

¹Department of Developmental and Regenerative Neurobiology, Institute of Brain Science, Nagoya City University Graduate School of Medical Sciences, ²Division of Neural Development and Regeneration, NIPS

Postnatal Neuronal Migration in Health and Disease

AM 9:30- AM 10:00 (25 + 5 min)

Alanna Watt

Department of Biology, McGill University

Axonal Swellings Enhance Axonal Function

(group photo & break)

Session 4 Chair: Masaki Isoda (NIPS)

AM 10:15- AM 10:35 (15 + 5 min)

Daisuke Koketsu

Division of System Neurophysiology, NIPS

Memory tasks of common marmosets for the functional mapping of prefrontal cortex

AM 10:35-11:05 (15 + 5 min)

Taihei Ninomiya

Division of Behavioral Development, NIPS

Social action monitoring in the macaque mid-STS region

AM 11:05- AM 11:20 (15 + 5 min)

Jason Da Silva Castanheira

Department of Neurology & Neurosurgery, Montreal Neurological Institute

MEG, myself, & I: Brief segments of neurophysiological activity enable individual differentiation

AM 11:20-

Closing remarks (Prof Murai, Prof Nabekura)

Organizers:

Derek Bowie (McGill), Keith Murai (McGill), Yoshihiro Kubo (NIPS)

Administration Office:

Tomomi Okayasu (NIPS), Yoshihiro Kubo (NIPS)