Canadian Open Neuroscience Platform
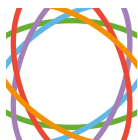
First Annual Meeting

Open Science and the Future of Neuroscience Information

April 29-30, 2019 Toronto, Ontario	Royal Canadian Military Institute 426 University Avenue

In Collaboration with Local Organizing Partners

Welcome Messages

Alan Evans
Scientific Director, CONP

Welcome to the First Annual Meeting of the Canadian Open Neuroscience Platform (CONP). Data driven science continues to evolve in an ever-changing environment and increasingly integrates a wide variety of fields including molecular biology, genetics, anatomy, biophysics, computational biology, and cognitive psychology. The goal of the CONP is to bring together a multi-disciplinary group of researchers, developers, and policy experts from across Canada to present and exchange breakthrough ideas related to open neuroscience that can be applied both fundamentally and in daily practice. The First Annual Meeting will feature recent outstanding achievements in the development of a gateway platform technology for the discovery and distribution of open datasets, analytical tools, training resources, best practices in data governance, and the communication of scholarly results. An important highlight of the CONP meeting will be Scholar participation in the form of presentations from trainees who are working closely with CONP partners across Canada. In sum, I hope you will find that the meeting offers a rich opportunity to learn from each other and to build the relationships that allow the Canadian neuroscience community to grow.

I'd like to welcome the participants of the Canadian Open Neuroscience Platform (CONP) to Toronto to continue to engage on the important work of enabling impactful research for the biomedical research community. The Ontario Brain Institute is happy to partner with the CONP in advancing Canadian neuroscience research through team science, open data platforms and widespread data sharing. This is critical to realizing the vision of enabling more rapid progress in the current age of data-driven medicine.

Tom Mikkelsen
President and Scientific Director,
Ontario Brain Institute

Allison B. Sekuler
Vice-President Research,
Baycrest Health Services

The Rotman Research Institute at Baycrest is thrilled to play a role in the Canadian Open Neuroscience Platform (CONP) and welcome members of CONP to the annual meeting in Toronto. We are excited to embrace the culture of open science exemplified by the CONP – where research data and publications become freely available for others to access, so that data can be amassed from multiple sites and studies. We believe such steps will help to accelerate scientific discovery and advance treatments for Canadians living with neurological diseases across the country.

www.conp.ca   **#CONP2019**   **@neurolibre**

Conference Program – Monday, April 29, 2019

> **WIRELESS NETWORK ACCESS**
> Network Name: RCMI GUEST
> Password: canadian4266

7:30 **Breakfast and Registration: 426 Grill (4th floor)**

8:30 **Welcoming Remarks: The Otter Room (4th floor)**
Tom Mikkelsen, *Ontario Brain Institute*; Stephen Strother, *Baycrest* and
Alan Evans, *McGill University*

8:45 **Meeting Overview**
Alan Evans, *McGill University*

9:00 **The Canadian Open Neuroscience Platform**
Jean-Baptiste Poline, *McGill University*

9:30 **NeuroLibre: Interactive Notebooks for Reproducible Research**
Nikola Stikov, *Montreal Heart Institute* and Pierre Bellec, *CRIUGM*

10:00 **Pipelines**
Tristan Glatard, *Concordia University* and Shawn Brown, *McGill University*

10:15 **Open Datasets**
Samir Das, *McGill University*

10:30 **Morning Break: 426 Grill**

10:45 **End User Requirements for Open Neuroscience Workflows**
Sean Hill, *Centre for Addiction and Mental Health*

11:15 **Protecting, Preserving, and Promoting Accessibility in Open Neuroscience**
Adrian Thorogood, *McGill Centre for Genomics and Policy* and
Dylan Roskams-Edris, *Independent Consultant*

11:45 **Lunch: 426 Grill**

12:30 **Professional Development of Open Neuroscience Scholars**
Jane Roskams, *University of British Columbia*

1:00   **CONP Scholar Presentations: Part 1**

Nonlinear dynamic factor analysis of calcium fluorescence signals in neural populations	Luke Prince *University of Toronto*
Multimodality computational modeling for open neuroscience	Mingli Zhang *McGill University*
NeuroMap database: An open resource of event-triggered brain mesoscale maps in awake chronic mice	Dongsheng Xiao *University of British Columbia*

1:45   **Breakout Discussions: Multiple Rooms**

Topic	*Moderator(s)*	*Location*
Supporting Open Neuroscience at the Faculty Level	Jane Roskams	Meeting Room #1 *(2nd floor)*
How Can the CONP Better Support Open Science Scholars?	Stephen Strother	Library Room *(5th floor)*
Development and Implementation of Practical Tools for Data Access	Adrian Thorogood	Meeting Room #2 *(2nd floor)*
Discovery and Integration of Diverse Datasets	Jean-Baptiste Poline	Meeting Room #3 *(2nd floor)*
The User Experience: How Do We Want to Use the CONP?	Sean Hill	Peter Hunter Lounge *(5th floor)*
Science Communication: Going Beyond the PDF	Rachel Harding Nikola Stikov	The Otter Room *(4th floor)*
CONP Fund Management Logistics: Request Appointment in Advance	Stephanie Lord-Fontaine Naser Muja	Medals Room *(2nd floor)*

3:00	**Afternoon Break: 426 Grill**
3:15	**Breakout Reports: The Otter Room**
4:45	**General Discussion and Day 1 Closing Comments**
5:30	**Shuttle Bus Departure to Networking Reception and Dinner**
6:00	**Networking Reception: The Park Room** The Thompson Toronto Hotel; 550 Wellington Street West Hors d'oeuvres and canapés will be provided. Cash bar available.
7:00	**Dinner: The Park Room** The Thompson Toronto Hotel; 550 Wellington Street West Wine Provided Courtesy of The Ontario Brain Institute
10:00	**Shuttle Bus Departure to the DoubleTree by Hilton**

9:00 **Breakfast: 426 Grill**

9:30 **Review of Day 1: The Otter Room**
Naser Muja, *Canadian Open Neuroscience Platform*

9:45 **CONP Scholar Presentations: Part 2**

A transparent pipeline for microstructural in vivo characterization of the brain: From scanner to publication Agah Karakazu *Polytechnique Montréal*

Neuroimaging quality control: Development of standards and best practices Pradeep Reedy Raamana *Baycrest*

MouseBytes: Open access cognitive data integration and sharing platform Sara Memar Kouchehbagh *Western*

10:45 **Morning Break: 426 Grill**

11:00 **A Knowledge Mobilization Strategy for Open Neuroscience**
Rachel Harding, *University of Toronto*

11:30 **General Discussion**

12:00 **Closing Comments**
Alan Evans, *McGill University*

12:15 **Lunch: 426 Grill**

1:00 **CONP Executive Planning Session (2 hour, closed meeting)**
CONP Committee Chairs and Executive Team
Library Room (5th floor)

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