



McConnell Brain Imaging Centre (BIC) and PERFORM Centre Researcher Retreat

February 21, 2020 - 9:00 am – 3:45 pm
De Grandpre Communications Centre, MNI
3801 University, Montreal

AGENDA

9:00 am Welcome and Brief Overview of BIC and PERFORM

Dr. Julien Doyon and Dr. Habib Benali

Review of Objectives and Format

Dr. Louis Collins and Ms. Lynn Roy

9:30 am Presentations from BIC Researchers

9:30-9:35

Rick Hoge (Director MRI)

9:35-9:40

David Rudko (Director MRI pre-clinical)

9:40-9:45

Marco Leyton, Ludmer Research and Training {Neuroimaging Pathways to Addictions}

9:45-9:50

Gassan Massarweh (Director Radiochemistry-cyclotron unit)

9:50-9:55

Jean-Baptiste Poline (Co-Director Neuroinformatics, Director NeuroHub)

9:55-10:00

Alan Evans (Director Neuroinformatics.)

10:00-10:05

Sylvain Baillet (Director MEG) with Marc Lalancette (MEG Systems Manager)

10:05-10:10

Amir Shmuel, MNI {Mechanisms, modeling and analysis of resting-state fMRI and high-resolution fMRI}

10:10-10:15

Jamie Near, Douglas Mental Health University Institute {Ongoing MRS investigations of tissue chemistry in the brain and body at BIC and PERFORM}

10:15-10:20

Jean-Paul Soucy (PET Research unit)

10:20 am Health Break

10:35 am Presentations from PERFORM Researchers

10:35-10:40

Jean-Paul Soucy (Multimodal assessment of brain function)

10:40-10:45

Natalie Phillips (Sensory-cognitive factors associated with brain structure and function in older adults with or a risk for dementia)

- 10:45-10:50 *Gang Li for Jun Cai (Both theoretical and applied researches on the development of algorithms, protocols and systems for addressing challenging issues lying in the loop of data lifecycle, with special applications in eHealth)*
- 10:50-10:55 *Hassan Rivaz (Making sense of the data trove in ultrasound data)*
- 10:55-11:00 *Obai Bin Ka'b Ali for Habib Benali (Glial neurotransmitters regulation, critical determinant of whole brain physiology: a computational model)*
- 11:00-11:05 *Najmeh Khalili-Mahani (Pharmacological Neuroimaging)*
- 11:05-11:10 *Emily Coffee (Coffey Lab: Audition, Sleep and Plasticity)*
- 11:10-11:15 *Christophe Grova (Multimodal functional data integration: applications in epilepsy and sleep studies)*
- 11:15-11:20 *Linda Booij (Brain development, epigenetic processes and risk for psychopathology)*
- 11:20-11:25 *Tristan Glatard (Big Data Infrastructures for Neuroinformatics)*
- 11:25-11:30 *Simon Bacon (The intersection between behaviour, psychological factors, and non-communicable chronic diseases)*
- 11:30-11:35 *Christopher Steele (Neural Architecture, Behaviour, and Connectivity)*
- 11:35-11:40 *Arash Mohammadi (EEG Signal Processing for BCI: From Motor Imagery to Visual Evoked Potentials)*

11:40 pm Special Announcement
Dr. Julien Doyon and Dr. Habib Benali

12:00 pm Lunch

1:15 pm Small Group Discussions
Please consider the following questions:

1. *How can your work benefit from a BIC / PERFORM collaboration?*
2. *What might a collaboration look like?*
3. *Which external funding agencies would you apply to?*

2:30 pm Team Presentations and Discussion

3:30 pm Closing Remarks and Next Steps
Dr. Julien Doyon and Dr. Habib Benali