McConnell Brain Imaging Centre (BIC), The Neuro and PERFORM Centre, Concordia University Researcher Retreat

February 21, 2020

The Neuro, De Grandpre Communications Centre
3801 University, Montreal

Program

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

Presentations from BIC Researchers (five-minute talks)

9:30  Rick Hoge, Director MRI

9:35  David Rudko, Director MRI pre-clinical

9:40  Neuroimaging Pathways to Addictions
Marco Leyton, Ludmer Research and Training

9:45  Gassan Massarweh, Director Radiochemistry-cyclotron uni

9:50  Jean-Baptiste Poline, Co-Director Neuroinformatics, Director NeuroHub

9:55  Alan Evans, Director, Neuroinformatics

10:00  Sylvain Baillet, Director MEG with Marc Lalancette, MEG Systems Manager

10:05  Mechanisms, modeling and analysis of resting-state fMRI and high-resolution fMRI
Amir Shmuel

10:10  Ongoing MRS investigations of tissue chemistry in the brain and body at BIC and PERFORM
Jamie Near, Douglas Mental Health University Institute

10:15  Jean-Paul Soucy, PET Research unit

10:20  Health Break
Presentations from PERFORM Researchers (five minute talks)

10:35  Multimodal assessment of brain function  
      Jean-Paul Soucy

10:40  Sensory-cognitive factors associated with brain structure and function in older adults with or a risk for dementia  
      Natalie Phillips

10:45  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  
      Gang Li for Jun Cai

10:50  Making sense of the data trove in ultrasound data  
      Hassan Rivaz

10:55  Glial neurotransmitters regulation, critical determinant of whole brain physiology: a computational model  
      Oba‘i Bin Ka‘b Ali for Habib

11:00  Pharmacological Neuroimaging  
      Najmeh Khalili-Mahani

11:05  Coffey Lab: Audition, Sleep and Plasticity  
      Emily Coffee

11:10  Multimodal functional data integration: applications in epilepsy and sleep studies  
      Christophe Grova

11:15  Brain development, epigenetic processes and risk for psychopathology  
      Linda Booij

11:20  Big Data Infrastructures for Neuroinformatics  
      Tristan Glatard

11:25  The intersection between behaviour, psychological factors, and non-communicable chronic diseases  
      Simon Bacon

11:30  Neural Architecture, Behaviour, and Connectivity  
      Christopher Steele

11:35  EEG Signal Processing for BCI: From Motor Imagery to Visual Evoked Potentials  
      Arash Mohammadi

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

12:00  Lunch