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

The Neuro, 3801 University Street, de Grandpre Communications Centre, Montreal
February 21, 2020

Program

9:00 Welcome and Brief Overview of BIC and PERFORM
Dr. Julien Doyon; Dr. Habib Benali

Review of Objectives and Format
Dr. Louis Collins; Ms. Lynn Roy

Presentations from BIC Researchers (five-minute talks)

9:30 Sensory-cognitive factors associated with brain structure and function in older adults with or a risk for dementia
Natalie Phillips

9:35 Rick Hoge, Director MRI

9:40 David Rudko, Director MRI pre-clinical

9:45 Neuroimaging Pathways to Addictions
Marco Leyton, Ludmer Research and Training

9:50 Gassan Massarweh, Director Radiochemistry-cyclotron uni

9:55 Jean-Baptiste Poline, Co-Director Neuroinformatics, Director NeuroHub

10:00 Alan Evans, Director, Neuroinformatics

10:05 Sylvain Baillet, Director MEG; Marc Lalancette, MEG Systems Manager

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

10:15 Ongoing MRS investigations of tissue chemistry in the brain and body at BIC and PERFORM
Jamie Near, Douglas Mental Health University Institute

10:20 Jean-Paul Soucy, PET Research Unit

10:25 Health Break

Presentations from PERFORM Researchers (five minute talks)

10:40 Multimodal assessment of brain function
Jean-Paul Soucy

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
Obaï Bin Ka'b Ali for Habib

11:00  Pharmacological Neuroimaging
Najmeh Khalili-Mahani

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

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  Applied Perception Lab: Visualization, Interaction and Display in the Clinical Domain
Marta Kersten-Oertel

11:45  Special Announcement
Dr. Julien Doyon; Dr. Habib Benali

12:00  Lunch