

NEURO WORKSHOP

APRIL 30, 2019

AUTISM NEUROIMAGING:

ADVANCED TOPICS AND NITTY-GRITTIES

Educational Workshop: Lectures and Keynotes

Jeanne Timmins Amphithéâtre, The Neuro

8:30 Registration + Breakfast

8:45 - 9:00 Welcome **Boris Bernhardt** (The Neuro)

9:00 - 10:00 SCIENTIFIC TALKS
Chair: **Casey Paquola** (The Neuro)
Biological insights

Richard Bethlehem (University of Cambridge, UK)
Typical and atypical developmental imaging genetics: combining data

Sebastien Jacquemont (CHU Sainte-Justine)
Omnigenic models in neurodevelopmental and psychiatric disorders

John Lewis (The Neuro)
Mining Cascades

Seok-Jun Hong (Child Mind Institute, New York City, USA)
Atypical Functional Connectome Hierarchy in Autism

10:00 - 10:30 **Keynote Christine Ecker** (Goethe University, Frankfurt, Germany)
Structural neuroimaging within the European autism interventions program - A multicentre study for developing new medications (EU-AIMS)

10:30 - 10:45 Coffee Break

10:45 - 11:15 **Keynote Jason Lerch** (The Hospital for Sick Children, Toronto)
Structural MRI for monitoring treatment response in neurodevelopmental disorders

11:15 - 11:30 POSTER BLITZ 3 best trainee abstracts

11:30 - 12:00 **Keynote Armin Raznahan** (NIH/NIMH, Bethesda, USA)
Genetics-first approaches to parsing the biology of neurodevelopmental disorders

12:00 - 1:00 LUNCH + POSTER SESSION

1:00 - 1:30 **Keynote Damien Fair** (Oregon Health & Science University, Portland, USA)
New opportunities and challenges to examine typical and atypical brain development: Examples from the ABCD study.

1:30 - 2:30 SCIENTIFIC TALKS
Chair: **Richard Bethlehem** (University of Cambridge, UK)
Neurocognitive insights

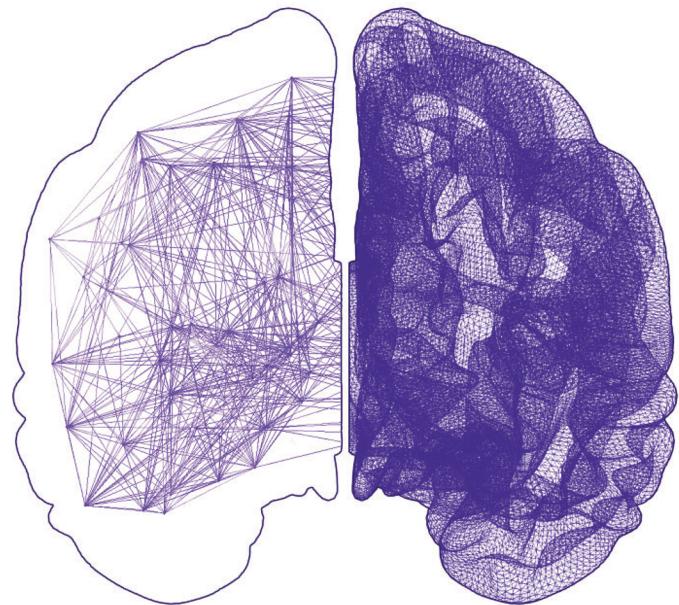
Laurent Mottron (Université de Montréal)
Autism research: Chronicle of a Death Foretold

Erin Dickie (Centre for Addiction and Mental Health, Toronto)
Addressing idiosyncratic network organization in ASD using individualized brain mapping

Isabelle Soulières (Université du Québec à Montréal)
Fluid reasoning in autism: help from neuroimaging

Megha Sharda (Université de Montréal)
Music and brain connectivity in children with autism - Results from a randomized controlled trial

2:30 - 3:00 **Keynote and closing remarks**
Adriana Di Martino (Child Mind Institute, New York City, USA)
ABIDE - lessons learned



Hands-on Educational Session & Social Event

The Notman House, 51 Sherbrooke Street West

3:30 - 3:50 **Leigh MacIntyre** (The Neuro)
Coding and Neuroscencing: the neuroinformatics side of large project management

3:50 - 4:30 **Steven Giavasis & Seok-Jun Hong** (Child Mind Institute, New York City, USA)
Functional MRI: from preprocessing to functional connectivity and large-scale models

4:45 - 5:30 **Sofie Valk** (Forschungszentrum, Julich, Germany) &
Casey Paquola (The Neuro)
Surface based structural MRI analysis

5:30 - 6:00 **Michael Milham** (Child Mind Institute, New York City, USA)
How open science can tip the balance for autism and beyond

6:00 **Cocktail + Open Brain Hack**

8:30 **End**

PARTNERS



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Montreal Neurological Institute and Hospital



Centre universitaire
de santé McGill

