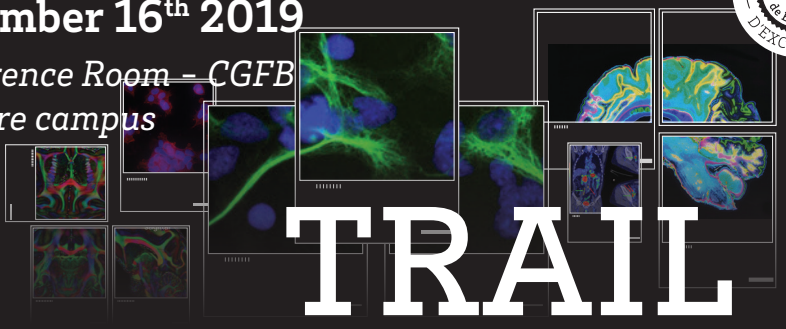
TRAIL Scientific day
September 16th 2019

Conference Room - CGFB
Carreire campus



TRAIL

Translational Research and Advanced Imaging Laboratory

Using brain connectivity to unravel cognitive mechanisms in neurological disorders

Program

2:00 p.m. Coffee & reception of participants

2:30 p.m. Opening word by Ismail KOUBIYR, TRAIL Ph.D. Student

2:40 p.m. *Cognitition in multiple sclerosis: an introduction*
Prof. Iris-Katharina PENNER, Heinrich Heine University Düsseldorf

3:15 p.m. *Cognitive impairment and the network collapse in multiple sclerosis*
Dr. Menno SCHOONHEIM, VU University Medical Center

4:00 p.m. *Cognitive and neuronal flexibility in typical and atypical development*
Dr. Lucina UDDIN, University of Miami

4:40 p.m. *Dynamics of cortico-cerebellar functional connectivity: relation to behavior and cognition in health and addiction*
Majd ABDALLAH, TRAIL Ph.D. Student

5:00 p.m. *Brain Changes in men soccer players depending on head impacts over one season of competition: a resting-state fMRI study*
Hélène CASSOUDESALLE, TRAIL Ph.D. Student

5:20 p.m. Coffee and delicacies

New!
Ph.D. students can now validate one hour of training time when participating in TRAIL conferences.

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Prof. Iris-Katharina Penner is a neuropsychologist and cognitive neuroscientist at the University of Düsseldorf. She completed her PhD at the Neuroradiology Department of the University Hospital Basel, on cognitive and functional changes in patients with multiple sclerosis (MS). From 2003 to 2009, Pr. Penner worked as senior scientist at the Department of Cognitive Psychology and Methodology. Then she worked as senior scientist and lecturer at the University of Basel, as well as at the Neurozentrum in Zürich with a focus on neuropsychological assessments in patients with neuroinflammatory and neurodegenerative diseases. In May 2015 Pr. Penner moved to the Neurology Department of the Heinrich Heine University in Düsseldorf and notably founded the COGITO Center for Applied Neurocognition and Neuropsychological Research.

Dr. Menno Schoonheim is assistant professor in the department of Anatomy and Neurosciences at the Amsterdam UMC, in Amsterdam, the Netherlands. He is a neuroscientist, whose team focuses on understanding disease progression in multiple sclerosis (MS) by studying brain networks, brain atrophy and microstructural damage. Using a network point of view, his team has been able to show that brain atrophy centers around network hubs in MS, which become overloaded and more rigid in cognitively impaired people with MS. His team aims to better understand the so-called «network collapse» that seems to underly cognitive decline and disease progression in MS.

Dr. Lucina UDDIN is associate professor at the University of Miami. After receiving a Ph.D. in cognitive neuroscience from the psychology department at UCLA in 2006, Dr. Uddin completed a postdoctoral fellowship at the Child Study Center at NYU. For several years she worked as a faculty member in Psychiatry & Behavioral Science at the Stanford School of Medicine. She joined the psychology department at the University of Miami in 2014. Within a cognitive neuroscience framework, her research combines functional connectivity analyses of diffusion tensor imaging data to examine the organization of large-scale brain networks supporting executive functions.