GRADIENTS OF BRAIN ORGANIZATION WORKSHOP

June 16, 2021

Times indicated in EDT

Program

8:00 **Welcome Remarks**

8:10-9:40 Session 1: **Bridging Scales**
Chaired by Daniel Margulies, Institut du Cerveau et de la Moelle Épinière, France & B.T. Thomas Yeo, National University of Singapore, Singapore

8:10-8:25 Mapping whole-brain spatiotemporal dynamics in autism spectrum disorder
Seok-Jun Hong, Sungkyunkwan University, South Korea

8:25-8:40 The Machine in the Ghost: Cytoarchitecture and wiring of the default mode network
Casey Paquola, Forschungszentrum Jülich, Germany

8:40:55 Gradients of receptor expression in the macaque cortex
Seán Frohdist-Walsh, New York University, USA

8:55-9:40 Panel Discussion

9:40-9:50 **Gradients Trivia**

9:50-10:00 **Coffee Break**

10:00-11:45 Session 2: **Dynamics**
Chaired by Elizabeth Jefferies, University of York, UK & Boris Bernhardt, Montreal Neurological Hospital (The Neuro), McGill University

10:00-10:15 Network harmonics and the structure-function relationship in fast network dynamics
Katharina Glomb, University of Lausanne, Switzerland

10:15-10:30 *The frequency gradient of resting-state brain oscillations follows cortical hierarchies*
Keyvan Mahjoory, Max Planck Institute for Empirical Aesthetics, Frankfurt, Germany

10:30-10:45 Topographic gradients of intrinsic dynamics across neocortex
Golia Shafiei, McGill University, Canada

10:45-11:00 Overlapping connectivity gradients underlie functional multiplicity in the anterior temporal lobe
Myrthe Faber, Donders Institute for Brain, Cognition and Behaviour, The Netherlands

11:00-11.45 Panel Discussion

11:45-12:30 Break

12:30-14:00 Session 3: **Evo-Devo**
Chaired by Sofie Valk, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany & Richard Bethlehem, University of Cambridge, UK

12:30-12:45 Gradients of functional and structural connectivity in the mouse neocortex
Ludovico Coletta, Istituto Italiano di Tecnologia, Italy

12:45-13:00 Neuroimaging and transcriptomics trace the evolution and development of primate cortical circuitry
Christine Charvet, Delaware State University, USA

13:00-13:15 Development of structure-function coupling in human brain networks during youth
Graham Baum, Harvard University, USA

13:15-14:00 Panel Discussion

14:00-16:00 Social gathering and poster session


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