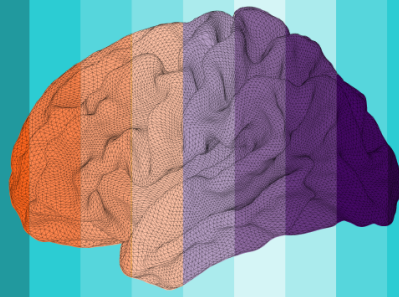


Friday, July 21 | 9 a.m. EDT

Jeanne Timmins Amphitheatre, The Neuro



GRADIENTS OF BRAIN ORGANIZATION

8:30 - 9:00

Registration & Coffee

9:00 - 9:15

Welcome

9:15 - 10:30

Multiscale Studies

Chairs: Konrad Wagstyl and Jessica Royer

Tools for multimodal, multiscale annotation of brain networks

Justine Hansen, McGill University, Canada

Three transcriptional axes underpin anatomy, development, and disorders of the human cortex

Richard Dear, University of Cambridge, UK

Organization of laminar thickness covariance in the human cortex

Amin Saberi, Max Planck Institute for Human Cognitive and Brain Sciences and Forschungszentrum Jülich, Germany

Panel discussion

10:30 - 10:45

Coffee break

10:45 - 12:00

Evolutionary perspectives

Chairs: Sofie Valk and Ting Xu

Gradients and the search for human brain specializations

Nicole Eichert, University of Oxford, UK

Intrinsic timescales as a unifying organizational principle of neural processing in nonhuman primates

Ana M. G. Manea, University of Minnesota, USA

Linking temporal lobe organization across modalities to individual differences in language processing

Marius Braunsdorf, Donders Centre for Cognition, The Netherlands

Panel discussion

12:00 - 13:00	Lunch break
13:00 - 13:15	Flash Talks

A shifting role of thalamocortical connectivity in the emergence of large-scale functional brain organization during early lifespan

Shinwon Park, Sungkyunkwan University, South Korea

Fine-Scaled Connectivity Gradients Improve Brain-Behavior Predictions

Karl-Heinz Nenning, Nathan Kline Institute, USA

Geometric Constraints on the Functional Organisation of the Infant Cerebral Cortex

Alexander Holmes, Monash University, Australia

13:15 - 14:30	Dynamics Chairs: Seok-Jun Hong and Sara Larivière
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Neural state dynamics along the canonical gradients of functional brain organization reflect cognitive and attentional dynamics

Hayoung Song, University of Chicago, USA

Cortex-wide maturational changes in excitation-inhibition ratio

Shaoshi Zhang, National University of Singapore, Singapore

Gradients go to the movies: Macroscale cortical organization during naturalistic viewing

Tamara Vanderwal, University of British Columbia, Canada

Panel discussion

14:30 - 14:45	Coffee break
14:45 - 16:15	Cognitive and clinical perspectives Chairs: Daniel Margulies and Theodore Satterthwaite

Why cognitive neuroscience needs a state space

Bronte Mckeown, Queen's University, Canada

Cortical gradients in semantic cognition

Tirso Gonzalez-Alam, University of York, UK

Atypical functional connectivity subspaces reflect declarative retrieval impairments in temporal lobe epilepsy

Donna Gift Cabalo, McGill University, Canada

Microstructural and functional interactions in visual networks for perceptual learning

Liz Yuanxi Lee, University of Cambridge, UK

Panel discussion

16:15 - 16:45	Closing comments
16:45 - 17:00	Transition
17:00 - 18:30	Poster session and cocktail