Monday, June 23 2025 | 9 a.m. AEST

Queensland University of Technology Gardens Point Campus



8:30 - 9:00

Registration & Coffee

9:00 - 9:15

Welcome

9:15 - 10:30

Methods and multimodal applications Chairs:

Geometric principles shaping the brain's structure and function James Pang, Monash University, Australia

Optical flow for capturing hierarchical cortical activity propagations Adam Pines, Stanford University, USA

Comparison of Different Group-Level Templates in Gradient-Based Multimodal Connectivity Analysis

Sunghun Kim, Korea University, South Korea

Stimulation mapping and whole-brain modeling reveal gradients of excitability and recurrence in cortex

Davide Momi, Krembil Centre for Neuroinformatics (CAMH), Canada

Panel discussion

10:30 - 10:45	Coffee break
10:45 - 12:15	Hippocampus and subcortex Chairs:

Multiscale cartography of human hippocampal organization Alexander Ngo, McGill University, Canada

The role of hippocampal travelling waves in shaping cortical activity *Anna Behler, University of Newcastle, Australia*

Towards a unification of the multiscale nature of human brain activity and cognitive function

Giulia Baracchini, University of Sydney, Australia

Panel discussion

12:15 - 13:15	Lunch break
13:15 - 13:30	Flash Talks
	TBD
	TBD
	TBD
13:30 - 14:45	Clinical and translational perspectives Chairs:
	Gradients and brain surgery Sara Larivière, Université de Sherbrooke, Canada
	Aging, genetic, and inflammatory underpinnings of altered network architecture of cortical thickness in schizophrenia Bin Wan, University of Geneva, Switzerland
	Development of the sensorimotor- association functional gradient and its dysfunction in depression Mingrui Xia, Beijing Normal University, China
	Panel discussion
14:45 - 15:00	Coffee break
15:00 - 16:15	Cognitive studies Chairs:
	Developmental Variations in Recurrent Cortical Spatiotemporal Brain Propagations in Youth Kyoungseob Byeon, Child Mind Institute, USA
	Local orchestration of distributed functional patterns supporting loss and restoration of consciousness Andrea Luppi, University of Cambridge, United Kingdom
	Axes of Hierarchical Brain Development Audrey Luo, University of Pennsylvania
	Panel discussion
16:15 - 16:45	Closing comments

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