

# THE NOOSA WORKSHOP

## ON BRAIN FUNCTION, ORGANISATION AND BEHAVIOUR

Aqua & Ocean Rooms, Peppers Resort, Noosa, Queensland, Australia



FEBRUARY 26-28, 2024

SUNDAY, FEBRUARY 25

# Day 1

## WELCOME AND POSTER RECEPTION

18:00-21:00 **Poster Session** Located at the Terrace, Peppers Resort

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MONDAY, FEBRUARY 26

# Day 2

## MODELS OF BRAIN ORGANISATION 1

10:00-10:20  
10 min Q&A **Brandon Munn** Multiscale neuroscience bridges neurobiological mechanisms of consciousness

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10:30-10:50  
10 min Q&A **Lucina Uddin** Update from WHATNET: Workgroup for Harmonized Taxonomy of Networks

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11:00-11:20  
10 min Q&A **James Pang** Geometric principles governing the brain

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## MORNING TEA

## LIFESPAN NEUROSCIENCE

12:00-12:20  
10 min Q&A **Ye Tian** Connecting the brain with body in neuroimaging research and its implication in neuropsychiatry

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12:30-12:50  
10 min Q&A **Valerie Sydnor** A sensorimotor-association axis of child and adolescent cortical development

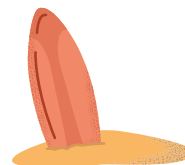
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13:00-13:20  
10 min Q&A **Jessica Damoiseaux** Individual differences in brain aging – typical or pathological?

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## LUNCH BREAK



## CLINICAL AND TRANSLATIONAL NEUROSCIENCE 1

16:30-16:50 10 min Q&A	<b>Armin Raznahan</b>	Neuroimaging entry points into the multiscale biology of risk for psychopathology
17:00-17:20 10 min Q&A	<b>Janine Bijsterbosch</b>	Transdiagnostic ICD-10 diagnostic classifications in the UK Biobank.
17:30-17:50 10 min Q&A	<b>Alessandro Gozzi</b>	Mechanisms of fMRI (dys)connectivity

TUESDAY, FEBRUARY 27

# Day 3

## BRAIN STATES AND DYNAMICS 1

10:00-10:20 10 min Q&A	<b>Mark Woolrich</b>	Large scale brain network dynamics: Temporal and Population Structure
10:30-10:50 10 min Q&A	<b>Sepideh Sadaghiani</b>	Functional connectome dynamics - slow, fast, or both?
11:00-11:20 10 min Q&A	<b>Adeel Razi</b>	Neural mechanisms of psychedelic brain states



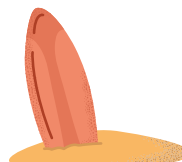
**MORNING TEA**

## PRECISION AND PREDICTION IN NEUROSCIENCE

12:00-12:20 10 min Q&A	<b>Jayson Jeganathan</b>	Anatomical alignment or functional alignment? Why not both?
12:30-12:50 10 min Q&A	<b>Sharna Jamadar</b>	Functional PET and the metabolic connectome
13:00-13:20 10 min Q&A	<b>Thomas Yeo</b>	Factors Influencing Prediction Performance of Behavioral Measures



**LUNCH BREAK**



## CLINICAL AND TRANSLATIONAL NEUROSCIENCE 2

16:30-16:50 10 min Q&A	<b>Ashlea Segal</b>	Multiscale characterisation of neural anatomical heterogeneity in psychiatric disorders
17:00-17:20 10 min Q&A	<b>Helen Zhou</b>	Brain network phenotype in neuropsychiatric disorders: prognosis, diagnosis, and intervention
17:30-17:50 10 min Q&A	<b>Mallar Chakravarty</b>	Improving translational brain science - a small animal imaging story

WEDNESDAY, FEBRUARY 28

# Day 4

## MODELS OF BRAIN ORGANISATION 2

10:00-10:20 10 min Q&A	<b>Ines Hipolito</b>	Markov Blanket Partitioning: Unveiling Multiscale Architectures in Neural Systems for Effective Connectivity Analysis
10:30-10:50 10 min Q&A	<b>Boris Bernhardt</b>	The microarchitecture of human functional systems
11:00-11:20 10 min Q&A	<b>Daniel Margulies</b>	Cortical gradients of functional integration



MORNING TEA

## BRAIN STATES AND DYNAMICS 2

12:00-12:20 10 min Q&A	<b>Joana Cabral</b>	Resonant waves captured with ultrafast fMRI
12:30-12:50 10 min Q&A	<b>Claire O'Callaghan</b>	Bridging behaviour, brain differences and drugs
13:00-13:20 10 min Q&A	<b>Luca Cocchi</b>	Hearing the topology of the brain

END WORKSHOP