

# THE NOOSA WORKSHOP

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## ON BRAIN FUNCTION, ORGANISATION AND BEHAVIOUR

Peppers Resort, Noosa, Queensland, Australia



FEBRUARY 23-26, 2026

MONDAY, FEBRUARY 23

## Day 1

### WELCOME AND POSTER RECEPTION

FOOD AND DRINK PROVIDED

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

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TUESDAY, FEBRUARY 24

## Day 2

### PRINCIPLES OF BRAIN ORGANISATION 1

10:00-10:20 **Csaba Orban** Systemic physiology entrains the brain's functional architecture in real time  
10 min Q&A

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10:30-10:50 **Stuart Oldham** Thalamocortical constraints on areal connectivity in the developing human brain  
10 min Q&A

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11:00-11:20 **Todd Woodward** Detecting cognitive modes with fMRI  
10 min Q&A

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MORNING TEA | 11:30-12:00

### LIFESPAN 1

12:30-12:50 **Arielle Keller** Multidimensional environments are reflected in brain organization in youth  
10 min Q&A

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13:00-13:20 **Ting Xu** Charting brain development across species  
10 min Q&A

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13:30-13:50 **James Roberts** Monitoring and modelling developing brain activity  
10 min Q&A

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LUNCH BREAK | 14:00-16:30

### CLINICAL AND TRANSLATIONAL NEUROSCIENCE 1

16:30-16:50 **Shan Siddiqui** Circuit-targeted neuromodulation across symptom and disorders  
10 min Q&A

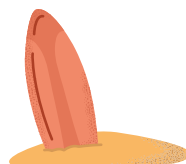
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17:00-17:20 **Trang Cao** The reproducibility of neural phenotypes in mental illness  
10 min Q&A

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17:30-17:50 **Clare McCormack** Neuroplasticity in pregnancy and the postpartum: Widespread changes in gray matter volume and brain iron concentration  
10 min Q&A

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**Day 3**

**PRINCIPLES OF BRAIN ORGANIZATION 2**

10:00-10:20 10 min Q&A	<b>Dimitri van de Ville</b>	GSP for Functional Neuroimaging: A Perspective on the Brain's Function-Structure Relationship
10:30-10:50 10 min Q&A	<b>Zaxui Cui</b>	Connectional Axis of Structural Connectivity Development across Healthy and ADHD Youth
11:00-11:20 10 min Q&A	<b>Catie Chang</b>	The global signal is our friend: autonomic brain-body coupling

**MORNING TEA | 11:30-12:00**

**CLINICAL AND TRANSLATIONAL NEUROSCIENCE 2**

12:30-12:50 10 min Q&A	<b>Jason Lerch</b>	Mapping Targetable Pathways Across Autism and Related Disorders
13:00-13:20 10 min Q&A	<b>Valerio Zerbi</b>	Noradrenergic control of brain dynamics: from controlled activation to endogenous LC waves
13:30-13:50 10 min Q&A	<b>Shella Keilholz</b>	Multiscale dynamics of brain activity

**LUNCH BREAK | 14:00-16:30**

**SELECTED FLASH TALKS**

16:30-16:40 5 min Q&A	<b>Giulia Baracchini</b>	Multiscale dynamic neural signatures of cognitive control
16:45-16:55 5 min Q&A	<b>Juan Helen Zhou</b>	Multimodal Brain Foundation Model: Integrating Morphology and Function for Decoding Diseases and Behavior
17:00-17:10 5 min Q&A	<b>R. Nathan Spreng</b>	New developments in multi-echo fMRI processing for precision functional mapping and novel neuroscientific insight
17:15-17:25 5 min Q&A	<b>Anna Behler</b>	Metastable coupling between cerebrospinal fluid flow and global brain activity in older adults
17:30-17:40 5 min Q&A	<b>Gabriella Chan</b>	Genetic and Network-Based Constraints on Gray Matter Volume Changes in Psychosis
17:45-17:55 5 min Q&A	<b>Zhilin Li</b>	Fronto-Parietal Connectivity Constrains the Temporal Dynamics of Transcranial Laser Stimulation-Induced Brain Modulation
18:00-18:10 5 min Q&A	<b>Amrit Kashyap</b>	Using an ordinary differential equation model to separate rest and task signals in fMRI
18:15-18:25 5 min Q&A	<b>Simon Warfield</b>	Concurrent Multislice-Level Motion Monitoring and Volume-Level Prospective Motion Correction in Simultaneous Multislice Functional MRI

**DRINKS AND CANAPES | MISS MONEYPENNYS | 19:30-22:30**

## Day 4

### PRINCIPLES OF BRAIN ORGANIZATION 3

10:00-10:20 10 min Q&A	<b>Annie Bryant</b>	Only multimodal analysis in the building: Comparative methods for brain structural and functional cartography
10:30-10:50 10 min Q&A	<b>Dominik Koller</b>	Cortical gradients shape traveling waves and neural oscillations
11:00-11:20 10 min Q&A	<b>Tammy Vanderwal</b>	Large-scale functional brain development using movie-fMRI

### MORNING TEA | 11:30-12:00

### LIFESPAN 2

12:30-12:50 10 min Q&A	<b>Elvisha Dhamala</b>	Brain-Based Predictive Models: Challenges and Applications
13:00-13:20 10 min Q&A	<b>Moriah Thomason</b>	Changes in the connectome across the birth transition
13:30-13:50 10 min Q&A	<b>Sarah Whittle</b>	Shaping emotion-related brain networks in development: from influences to intervention.

### LUNCH | 14:00-15:00

### END WORKSHOP

