



ANS2020 Online

Sponsored by: **illumina**[®]

PROGRAM

2nd June 2020 (12pm Australian EST) : ANS EMCR Webinar

Host: Rebecca San Gil, Queensland Brain Institute, University of Queensland, Brisbane, QLD

Speakers:

- Dr Joanna Yau – Postdoctoral Research Associate, University of New South Wales. The role of basolateral amygdala parvalbumin neurons in aversive prediction error.
- Mr Paul Marshall – Senior PhD Candidate, Queensland Brain Institute, University of Queensland. Dynamic regulation of Z-DNA in the mouse prefrontal cortex is required for fear extinction.
- Dr Iris Wang – Assistant Professor, Shanghai Tech University. New Approaches to Study Axon Injury and Degeneration in Central Nervous System

Webinar recording: <https://vimeo.com/432325752>

15th June 12-1:30pm AEST: New insights into the nature of pain mechanisms and potential clinical and translational advances

Chair: Andrew Gundlach

Speakers:

- Greg Neely
- Nicholas Veldhuis
- Irina Vetter

13th July 12-1:30pm AEST: Brain injury in vulnerable populations

Chair: Sandy Shultz

Speakers

- Paul Van Donkelaar & Karen Mason: Exploring Incidence, Consequences, and Supports for Women Survivors of Traumatic Brain Injury in Intimate Partner Violence
- Stuart McDonald: Diagnostic and recovery biomarkers for mild TBI: New insights from athletes and rodents
- Melinda Fitzgerald: Predicting poor outcomes following mild traumatic brain injury

3rd August 2020 (12pm Australian EST): ANS EMCR Webinar

Host: Juliette Cheyne, Centre for Brain Research, University of Auckland, Auckland, NZ

Speakers:

- Dr Eduardo Albornoz Balmaceda, Postdoctoral Research Fellow, University of Queensland, *Peripheral immune contributions to neuroinflammation*

- Mr Simon Maksour, PhD Candidate, Illawarra Health and Medical Research Institute, University of Wollongong, *Expression profiling REST and RCOR genes in neurogenesis using 2D and 3D human pluripotent stem cell models*
- Dr Yukti Vyas, Postdoctoral Research Fellow, University of Auckland, *Influence of maternal high zinc diet on the development of Autism-associated behavioural and synaptic deficits in Shank3-knockout mice*
- Zhi Yi Ong, Postdoctoral Research Fellow, University of New South Wales, *Hindbrain noradrenergic circuits in food intake control*

10th August 2-3:30pm AEST: Brain Development and Regeneration

Chair: Virginie Lam and Nathalie Dehorter

Speakers:

- Professor Zoltán Molnár (University of Oxford): High Fives and Low Fives – molecular, cellular and histological perspectives of cortical neurons during development
- Professor Orly Reiner (Weizmann Institute of Science): Models, Mice and Cortical Malformations
- Dr Saskia Freytag (UWA): Genetic Factors for Cortical Malformations
- Dr Julian Heng (Curtin): What Functional Impact? Towards Precision Diagnosis, Mechanistic Dissection and Human Impact for Cortical Malformations.

Webinar recording: <https://vimeo.com/user110880990/review/447720971/44db7b4b7b>

14th September 12-1:30pm AEST: Digital approaches to neuroscience education

Co-Chairs: Alison Canty and Kristin Hillman

Speakers:

Prof Charles Watson, University of New South Wales and the University of Queensland

- **Internet-based resources for neuroscience education**

A/Prof Alison Canty, University of Tasmania

- **Moving the classroom online to teach the neuroscience of dementia in video format**

A/Prof Lyndsey Collins-Praino, University of Adelaide

- **Game On! The use of gamification in neuroscience teaching to increase engagement and improve student outcomes.**

Professor Ramesh Rajan, Monash University

- **What does a coherent package of online materials need to have to promote metacognitive self-reliance in learning neuroscience?**

12th October 1-3pm AEST: Molecular insights into neuropsychiatric disorders

Chair: Kai Sempert

Speakers:

- Cecilia Flores - Drugs of abuse in adolescence target the Netrin-1/DCC system to disrupt prefrontal cortex development
- Helen Cooper - Understanding the role of actin-related autism genes in cortical development
- Nathalie Dehorter - Overcoming the Cognitive and Motor Deficits in the Cntnap2 Mouse Model of Autism
- Jozef Gecz - Stop the nonsense: Nonsense-mediated mRNA decay as a cellular 'mRNA policeman' and a fundamental regulator of brain development and function

Meeting URL: <https://protect-au.mimecast.com/s/nU4SCxnMQNtoK9g3IA0LrI?domain=uqz.zoom.us;>

19th October 2020 (12pm Australian EST): ANS EMCR Webinar

Host: Brenton Hordacre, University of South Australia, Adelaide, SA

Speakers:

- Dr Cherry Mao, Postdoctoral Research Fellow, Florey Institute of Neuroscience and Mental Health, Modelling of SCN2A encephalopathies using human stem cell-derived neurons
- Sarah Broome, PhD Candidate, University of Technology Sydney, Targeting neuroinflammation in Parkinson's disease
- Dr Stephanie Rayner, Postdoctoral Research Fellow, Macquarie University, Rapid, unbiased identification of protein inclusion components from patient post-mortem brain tissue using Biotinylation by Antibody Recognition (BAR)
- Jessica Moretti, PhD Candidate, Perron Institute for Neurological and Translational Sciences, Concurrent LI-rTMS induces changes in c-fos expression but not behavioural effects during a progressive ratio task with adult ephrin-A2A5^{-/-} mice

Join Zoom Meeting

Meeting URL: <https://unisa.zoom.us/j/91997543531?pwd=K3M4WjB4V0lONmFoTzZGNElMUVpvQT09>

Meeting ID: 919 9754 3531

Password: 876305

9th November 12-1:30pm AEST: Rethinking energy balance - Neural circuits, peptides and mechanisms

Chair: Zhi Yi Ong

- Amber L Alhadeff - Gut signaling engages coordinated homeostatic and reward circuitry
- Chi Kin (Kenny) Ip - Transcriptomic profiling of NPYergic neurons in the central amygdala under chronic stress induced obesity
- Garron Dodd - Intranasal Targeting Hypothalamic PTP1B and TCPTP Reinstates Leptin and Insulin Sensitivity and Promotes Weight Loss in Obesity
- Sarah H Lockie - Targeting central feeding circuits to improve outcomes in cancer cachexia

Join Zoom Meeting

Meeting URL: <https://utas.zoom.us/j/91315418164?pwd=QVRROTv6TmF0K3YxZkNPNVJEZGZGQT09>

Meeting ID: 913 1541 8164

Password: 655086

7th December 2020 (12pm Australian EST): ANS EMCR Webinar

Host: Luke McAlary, Illawarra Health and Medical Research Institute (IHMRI), University of Wollongong, NSW

- Dr Ong Lin Kooi, The impact of cortical stroke beyond motor outcomes: A spatiotemporal analysis of neuronal death, gliosis, accumulation of amyloid- β as well as cognition.
- Dr Anurag Singh, Tumour necrosis factor: a mediator of metaplasticity in healthy and diseased hippocampus
- Dr Gilles Vanwalleghem, Shining a light on the enteric nervous system.
- Bhedita Seewoo, Changes in the white matter microstructure of young male Sprague Dawley rats following chronic restraint stress and following low-intensity rTMS: a diffusion MRI study.
- Nishita Bhembre, Synaptic compensation following oligomeric A β induced-dendritic spine loss.

Meeting URL: <https://uow-au.zoom.us/j/96422987061?pwd=ekZlSmc5TldxRWfKwUVGRXZuQXkyQT09>

Meeting ID: 96422987061

Password: 024228



ANS2020 Conference & AGM

9th December 2020 (11-5:30pm Australian EDST) - PROGRAM

Chair: Cliff Abraham

Speakers:

11:00-11:15am: Cliff Abraham (President's Welcome)

11:15-12:15pm: Prof Kate Drummond - Eccles Plenary Lecture

Title '*Quality of Life in Brain Tumour Patients - Do we understand it and what can we do about it?*'

12:15-12:45pm: Dr Philip Ryan - A.W Campbell Plenary Lecture

Title '*The neurocircuitry of fluid satiation*'

12:45-1:15pm: Lunch break / Break-out chats

1:15-1:45pm: Prof Erica Fletcher - Nina Kondelos Award Lecture

Title: '*the role of microglia in regulating retinal homeostasis*'

1:45-2:15pm: PhD student 3-minute thesis finalists and announcement of the competition winners

2:15-2:45pm: Announcement of ANS Award recipients

2:45-3:00pm: Tea break

3:00-5:30pm: ANS Annual General Meeting (TBC)

[Join Zoom Meeting](#)

Meeting URL: <https://utas.zoom.us/j/96661644804>

Meeting ID: 966 6164 4804

Password: 797792