

SUNDAY 30 NOVEMBER	17:00	ANS Welcome Drinks 17.00-19.00 Federation Ballroom (Hotel Grand Chancellor) Registration required			
MONDAY 1 DECEMBER	7:15	Foyer	Registration Desk Opens		
	7:15	TBC -	TBA Breakfast Workshop Registration required (TBA)		
	8:30	Concert Hall	Welcome to Country Conference Open		
	8:45	Concert Hall	Elsbeth McLachlan Plenary Lecture Speaker: Professor Peter Crack Chair: TBC		
	9:45	Federation Ballroom	Morning Tea, Exhibition and Poster Presentations (Odds)		
		Concert Hall Symposium 1: New insights into the roles of the cerebrovasculature in nutrient supply, waste removal, neurodegenerative diseases and beyond Chairs: Kirsten Coupland, Brad Sutherland	Grand Ballroom 1 Symposium 2: The quiet loud brain: Exploring Spontaneous Brain Dynamics Across Species Chairs: Daisuke Shimaoka, Madhu Peruma	Grand Ballroom 2 Neuroscience Education Session Chairs:	Grand Ballroom 3 Selected Orals 1: STREAM Chairs:
	10:45	TITLE: The changing functional relationship between microglia, pericytes and blood vessels in health and Alzheimer's disease SPEAKER: Gary Morris	TITLE: Unifying framework for cortico-hippocampal interactions SPEAKER: Richa Phogat	TITLE SPEAKER	10:45 TITLE SPEAKER
	11:10	TITLE: Neurovascular function in mouse models of Alzheimer's disease and atherosclerosis SPEAKER: Clare Howarth	TITLE: Towards blinded classification of loss of consciousness: distinguishing wakefulness from general anesthesia and sleep in flies using a massive library of univariate time series analysis SPEAKER: Anous Leung	TITLE SPEAKER	11:00 TITLE SPEAKER
	11:35	TITLE: Perivenous clearance of brain wastes to the dura mater SPEAKER: Leon Smyth	TITLE: Pouch-young marsupials illuminate the emergence of panmammalian features of spontaneous activity SPEAKER: Rodrigo Suarez	TITLE SPEAKER	11:15 TITLE SPEAKER
	12:00	TITLE: Role of TXA2R Signaling in Pericyte-Mediated Regulation of Cerebral Vascular Tone and Blood Flow SPEAKER: Catherine Foster	TITLE: Deciphering multisensory integration in larval zebrafish through behaviour and whole-brain calcium imaging. SPEAKER: Conrad Lee	TITLE SPEAKER	11:30 TITLE SPEAKER
	12:30	Federation Ballroom	Lunch, Exhibition and Poster Display		
	12:40	Grand Ballroom 1	ECDI panel discussion (bring lunch)		
		Concert Hall Symposium 3: Synaptic plasticity mediating adaptive and maladaptive behaviours Chairs: Jai Polepalli, Joanna Yau	Grand Ballroom 1 Symposium 5: Enhancing Indigenous inclusion, support and participation in neuroscience research Chairs: Philippa Taberlay, Emily Garrett	Grand Ballroom 2 Symposium 4: From rare to common disease; from kids to adults Chairs: Tony Cook	Grand Ballroom 3 Selected Orals 2: STREAM Chairs:
	14:00	TITLE: What makes a memory? Identifying molecular requirements for learning in a simple brain SPEAKER: Yee Iain Chew	TITLE: Developing new training pathways for Indigenous students in Biomedical sciences at the University of Newcastle SPEAKER: Elizabeth Manning	TITLE SPEAKER	14:00 TITLE SPEAKER
	14:25	TITLE: Probing plasticity using memory engram-tagging in neural circuits that drive fear-related behaviours. SPEAKER: Roger Marek	TITLE: Indigenous academic leadership: Navigating Cultural responsibility and institutional challenges in higher education SPEAKER: Maree Tombs	TITLE SPEAKER	14:15 TITLE SPEAKER
	14:50	TITLE: Experience dependent plasticity in appetitive motivation circuits SPEAKER: John Power	TITLE: First Peoples and traumatic brain injury clinical practice guidelines SPEAKER: Jennifer Evans	TITLE SPEAKER	14:30 TITLE SPEAKER
	15:15	TITLE: Sex interacts with neuroinflammation and goal-directed learning to alter the density of hippocampal dentritic spines. SPEAKER: Laura Bradfield	TITLE SPEAKER	TITLE SPEAKER	14:45 TITLE SPEAKER
	15:45	Federation Ballroom	Afternoon Tea, Exhibition and Poster Presentations (Evens)		
	16:45	Concert Hall	International Plenary Lecture Speaker: Professor Marina Mikhaylova Chair: TBC		
	18:00	Telegraph Hotel	EMCR Trivia Night		

8:15	Foyer	Registration Desk Open			
8:30	Concert Hall	Lawrie Austin Plenary Lecture Speaker: Professor Alex Fornito Chair: TBC			
9:30	Morning Tea, Exhibition and Poster Presentations (Odds)				
	Concert Hall	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	
	Symposium 6: An update on Sensory Circuits of the Spinal Cord and Peripheral Nervous system Chairs: Brett Graham	Symposium 7: Modelling neurodegenerative diseases in vitro Chairs: Alistair Fortune	Selected Orals 3: STREAM Chairs:	Selected Orals 4: STREAM Chairs:	
10:30	TITLE SPEAKER	TITLE: Using patient iPSC to investigate the role of oligodendrocytes in ALS SPEAKER: Samatha Barton	10:30 TITLE SPEAKER	TITLE SPEAKER	
10:55	TITLE SPEAKER	TITLE: From nose to neurons: Linking cellular systems to understand environmental and intrinsic drivers of neurodegenerative disease SPEAKER: Anthony White	10:45 TITLE SPEAKER	TITLE SPEAKER	
11:20	TITLE SPEAKER	TITLE: Screening of natural products from Australia and Oceania identifies novel neuroprotective compounds and a small molecule activator targeting the same cellular pathway in familial and sporadic amyotrophic lateral sclerosis (ALS) induced pluripotent stem cell (iPSC)-derived motor neurons SPEAKER: Lezanne Ooi	11:00 TITLE SPEAKER	TITLE SPEAKER	
11:45	TITLE SPEAKER	TITLE: Multiple sclerosis associated genetic variants drive intrinsic dysfunction in iPSC-derived CNS cell types SPEAKER: Jessica Fletcher	11:15 TITLE SPEAKER	TITLE SPEAKER	
			11:30 TITLE SPEAKER	TITLE SPEAKER	
			11:45 TITLE SPEAKER	TITLE SPEAKER	
			12:00 TITLE SPEAKER	TITLE SPEAKER	
12:15	Lunch, Exhibition and Poster Display				
	Concert Hall	Grand Ballroom 1	Grand Ballroom 2	Grand Ballroom 3	
	Symposium 8: Delineating brain regions- importance & current methods of application Chair: Rita Machaalani	Symposium 9: Collecting and evaluating animal models in mental health science and building an online resource for researchers: A Wellcome initiative Chairs: Rachel Hill, Michelle Kehoe	Symposium 10: Exploring glial cell communication in situ Chairs: Roisin Moloney	Selected Orals 5: STREAM Chairs:	
13:15	TITLE: Functional identification of the cortical and subcortical regions involved in the generation of sympathetic nerve activity in humans SPEAKER: Vaughan Macefield	TITLE: Facing the truth: incorporating human epidemiology for translation and back-translation between human and rodent research in anxiety disorders SPEAKER: Jee Hyun Kim	TITLE: Targeting microglial gp130 signalling to repair the injured brain SPEAKER: Emily Willis	13:15 TITLE SPEAKER	
13:40	TITLE: Child brain anatomy: The use of high-resolution paediatric MRI to reach beyond adult models SPEAKER: Brooklyn Wright	TITLE: Leveraging translational animal models and the RDoC framework to predict antidepressant response in depression SPEAKER: Susannah J. Tye	TITLE: Microglial regulation of the retinal vasculature in health and disease SPEAKER: Erica Fletcher	13:30 TITLE SPEAKER	
14:05	TITLE: Utilising systematic difference in activity patterns to localise seizure onset zone in intracranial investigation of epilepsy SPEAKER: Hamid Karimul-Rouzbahani	TITLE: Does my mouse hear voices? Using cognition to tackle the complexities of modelling psychotic disorders SPEAKER: James Kesby	TITLE: Human cortical oligodendrocyte dynamics over the lifespan SPEAKER: Koji Oishi	13:45 TITLE SPEAKER	
14:30	TITLE:Phox2b as a neurochemical marker for human brain chemoreceptors: a new frontier in breathing disorder research SPEAKER: Natasha Kumar	TITLE: Testing the limits of animal modelling and psychiatric disorders SPEAKER: Suresh Sundram	TITLE: Mechanisms underlying strocyte heterogeneity in the mouse cerebral cortex SPEAKER: David Gonsalvez	14:00 TITLE SPEAKER	
				14:15 TITLE SPEAKER	
				14:30 TITLE SPEAKER	
				14:45 TITLE SPEAKER	
15:00	Afternoon Tea, Exhibition and Poster Presentations (Evens)				
16:00	Concert Hall	ANS Plenary Lecture - Sponsored by Speaker: Dr Miriam Matamales Chair: TBC			
17:00	Concert Hall	ANS Annual General Meeting (+awarding of indigenous scholarship)			
19:00	Crowne Plaza	ANS Networking Function Centurion Ballroom (Crowne Plaza) Registration required Dinner Entertainment sponsored by			

8:15	Foyer	Registration Desk Open			
	Concert Hall	Symposium 11: Circuit Neuroscience Chairs: Barry Dickson	Symposium 12: Cancer Neuroscience: Defining and targeting neural-tumour interactions in the body and brain Chairs: Erica Sloan	Symposium 13: Exploring Complexities in Addiction Neuroscience Chairs: Gavan McNally	Grand Ballroom 3 Selected Orals 6: STREAM Chairs:
8:30		TITLE: Neuronal correlates of sensory decision-making and attention in mice SPEAKER: Ehsan Arabzadeh	TITLE: Nerve dependence: from regeneration to cancer SPEAKER: Hubert Hondermarck	TITLE: Methamphetamine potentiates the use of outcome-specific associations via a hypothalamic dopamine circuit SPEAKER: Melissa Sharpe	8:30 TITLE SPEAKER
8:55		TITLE: Cortical circuit dynamics during learning and memory SPEAKER: Lucy Maree Palmer	TITLE: Identifying and targeting sensory neuro-immune circuits in cancer SPEAKER: Karen Dixon	TITLE: Bed nucleus enkephalin neurons and salt reward SPEAKER: Andrew Lawrence	8:45 TITLE SPEAKER
					9:00 TITLE SPEAKER
9:20		TITLE: Merging structural, functional, and gene expression data for the holistic modelling of neural circuits SPEAKER: Ethan Scott	TITLE: Cancer hijacks the sympathetic nervous system to resist chemotherapy SPEAKER: Aeson Chang	TITLE: Sodium butyrate reverses the impact of prenatal opioid exposure: Is timing important? SPEAKER: Kelly Clemens	9:15 TITLE SPEAKER
9:45		TITLE: Cooling up and warming down: thermal encoding in the periphery SPEAKER: Clarissa Whitmire	TITLE: Brain metastases are the most aggressive type of cancer spread and result in poor prognosis for breast cancer patients SPEAKER: Delphine Merino	TITLE: Intrinsic functional connectivity patterns in comorbid PTSD and alcohol use disorder vs alcohol use disorder SPEAKER: Ellen Towers	9:30 TITLE SPEAKER
					9:45 TITLE SPEAKER
					10:00 TITLE SPEAKER
10:15	Federation Ballroom	Morning Tea, Exhibition and Poster Presentations (Odds)			
11:15	Concert Hall	AW Campbell Award Presentation (20min) Chair:			
11:35	Concert Hall	Nina Kondelos Award Presentation (20 min) Chair:			
11:55	Concert Hall	Illumina Neurogenomic Award Presentation (15 min)			
12:10	Concert Hall	Alan Finkel (2x10min)			
12:30	Federation Ballroom	Lunch, Exhibition and Poster Presentations (Evens)			
	Concert Hall Symposium 14: Circuitry Under Strain: Development, Trauma, and Disease in Motor Systems Chairs: Alison Canty, Ross Langley	Grand Ballroom 1 Symposium 15: The Brain's Neuromodulatory Yin-Yang: Dopamine and Acetylcholine in Learning and Disease Chairs: Jay Bertran-Gonzalez, Geneva Hart	Grand Ballroom 2 Symposium 16: From cells to stories: the application, experience and science of rTMS Chairs: Jennifer Rodger, Aleksandra Miljevic	Grand Ballroom 3 Selected Orals 7: STREAM Chairs:	
13:30		TITLE: Spinal circuits in cerebral palsy SPEAKER: Katharina Quinlan	TITLE: The orchestration of striatal dopamine and acetylcholine release during goal-directed learning and updating SPEAKER: Thomas Burton	TITLE: Transforming Care: Clinical Translation and implementation of TMS for youth SPEAKER: Paul Croarkin	13:30 TITLE SPEAKER
13:55		TITLE: Motor circuit vulnerability in ALS models SPEAKER: Sharn Perry	TITLE: Striatal neuromodulation induced by non-invasive manipulation of basal ganglia circuits in vivo SPEAKER: John Reynolds	TITLE: Lines in the darkness: A lived experience of TMS SPEAKER: Donelle Toussaint	13:45 TITLE SPEAKER
					14:00 TITLE SPEAKER
14:20		TITLE: Steering the fly SPEAKER: Kai Feng	TITLE: Early disruptions in neuromodulatory signalling in a novel immune-induced mouse model of Parkinson's disease SPEAKER: Nathalie Dehorter	TITLE: Exploration of the effect of low intensity rTMS on the developing brain SPEAKER: Maitri Tomar	14:15 TITLE SPEAKER
					14:30 TITLE SPEAKER
14:45		TITLE: Targeting the extracellular matrix to promote regeneration and remyelination following spinal cord injury SPEAKER: Simon O'Carroll	TITLE: Muscarinic acetylcholine receptors in alcohol use disorder SPEAKER: Leigh Walker	TITLE: TMS for people with MS: From bench to clinic SPEAKER: Carlie Cullen	14:45 TITLE SPEAKER
					15:00 TITLE SPEAKER
15:15	Federation Ballroom	Afternoon Tea, Exhibition and Poster Display			
16:00	Concert Hall	Eccles Plenary Lecture Speaker: Professor Melinda Fitzgerald Chair: TBC			
17:00	Concert Hall	Presentation of Awards and Conference Close			

*Program subject to change without notice