	7:15	Foyer Registration Desk Opens				
	8:30	Welcome to Country: <u>Len Collard</u> Conference Open: <u>Prof. Hamid Sohrabi</u>				
1	9:00	Elspeth McLachlan Plenary Lecture TITLE How punishment shapes our actions and choices <u>SPEAKER</u> Prof. Gavan McNally Chair: Prof. Hamid Sohrabi				
	10:00		Morning Tea, Exhibition and Poster Display			
		Symposium 1: The role of the microbiome and gut-brain axis in brain function and dysfunction Chair: A/Prof. Ryan Anderton	Symposium 2: Rethinking the transition from habits to compulsivity in addictive behaviour Chair: A/Prof. Kelly Clemens		Selected Orals 1: Insights into Neurodegeneration and Cognition Chair: Belinda Brown	
1	10:30	TITLE Drug-microbiota interactions underlie behavioural side effects of pharmacotherapies <u>SPEAKER</u> Dr. Sarah-Jane Leigh, University of New South Wales	TITLE Stimulus-controlled behaviour corresponds to dopamine signalling in the accumbens and is altered by pre-exposure to drugs of abuse SPEAKER Dr. Karly Turner, University of New South Wales	10:30	TITLE Preclinical iPSC drug screen and machine learning predict neuroprotective agents for a form of childhood dementia <u>SPEAKER</u> Zarina Greenberg	
		TITLE Dietary fibre reverses adverse post-stroke outcomes in mice via short-	TITLE Effects of obesogenic diets on behavioural control and implications for the	10:45	TITLE Cholinergic basal forebrain neurons regulate glymphatic-like flow and BOLD-CSF coupling: relevance to Alzheimer's disease <u>SPEAKER</u> Elizabeth (Lizzie) J Coulson	
1	10:55	chain fatty acids and its sensing receptors SPEAKER A/Prof. Francine Marques, Monash University	control of food-seeking SPEAKER Dr. Mike Kendig, University of Technology Sydney	11:00	TITLE Synergistic Expression of Human Apo E4 and Amyloid Restricted to the Liver: A Novel Pathway for Alzheimer's Disease Onset and Neurodegeneration. SPEAKER Ryu Takechi	
	11:20	TITLE Discovery of the cell and receptor target of the mood stabiliser lithium and relevance of this gut-brain pathway for bipolar disorder pathogenesis SPEAKER Prof. Damien Keating, Monash University	TITLE The effects of an obesogenic diet on striatal decision-making circuits and the impact on behavioural control SPEAKER A/Prof. Laura Corbit, The University of Toronto, Canada	11:15	TITLE Identification of APOE4- driven lipid accumulation in the aging brain with compromised myelin integrity SPEAKER Kai-Hei Tse	
	11.20	TITLE Gene-environment interactions modulating the microbiota-qut-brain axis	TITLE Cognitive drivers of persistent poor decisions	11:30	TITLE Molecular and cellular mechanisms underpinning disruptions to neuronal signalling and vulnerability in Alzheimer's disease neurons and novel applications of machine learning SPEAKER Lezanne Ooi	
1	11:45	within and between generations <u>SPEAKER</u> Prof. Anthony Hannan, Florey Institute of Neuroscience and Mental Health, University of Melbourne	<u>SPEAKER</u> Dr. Robyn Brown, University of Melbourne	11:45	TITLEInvestigating the mediating impact of insulin resistance on the physical activity and brain beta-amyloid relationship in cognitively unimpaired older adults SPEAKER Michael Slee	
		Data Blitz 1: Gut-brain axis 12:12 - Characterising α-synuclein in epithelial cells of the gut; Anastazja Gorecki	Data Blitz 2: Biological underpinnings of cognition and social interaction 12:12 - Studying approach-avoidance conflict in mice using the platform	12:00	TITLE The Effects of Hearing Loss on Spatial Learning and Memory in Middle-Aged Guinea Pigs SPEAKER Kristin Barry	
1	12:10	12:20: - It's not all in our head: The autism-associated variant in Neuroligin-3 causes gastrointestinal dysfunction, microbial dysbiosis and resilience in a model of colitis; Elisa Hill-Yardin 12:24 - Association of elevated Trimethyl amine and its metabolites with Gut microbial dysbiosis in Parkinson's Disease; Divya Mondhe	avoidance task; Lizzie Manning 12:15 - Characterizing the role of movement in ventromedial striatal dopamine signals related to reward; Eugenia Poh 12:18 - Biological models of perception, conscious perception and decision at cellular scale; Artemio Soto-Breceda 12:21 - Transthalamic pathways in decision-making; Christina Mo 12:24 - Probabilistic modeling reveals coordinated social interaction states and their multisensory bases; Sarah Stednitz 12:27 - Striatal Mechanisms of Punishment Learning; Bixuan Lin	12:15	TITLE Executive control fluctuation underlies intra-individual behavioural variability SPEAKER Farshad Mansouri	
1	12:30	Lunch, Exhibition and Poster Display				
1	12:30	Brain Bee Final				

	Symposium 3: Indigenous excellence in brain research Chair: Dr. Lizzie Manning	Symposium 4: Insights into neurodegenerative disease mechanisms from - omics Chairs: Prof. Lezanne Ooi & Dr. Tomas Kavanagh		Selected Orals 2: Advanced Techniques and Emerging Models Chairs: Dr. Elaine Wong & A/Prof. Giuseppe Verdile	
13:30	TITLE TBC SPEAKER Cheryl Bridge, Telethon Kids Institute	TITLE Using the Alzheimer's disease proteome to identify novel disease mechanisms and potential drug targets SPEAKER Dr. Eleanor Drummond, University of Sydney	13:30	TITLE Astrocyte-mediated Transregional Metaplasticity in the Hippocampus SPEAKER Wickliffe Abraham	
13:55	TITLE Understanding the effects of brain cancer treatments on the developing brain SPEAKER Dr. Jessica Buck, Telethon Kids Institute	TITLE Neuronal cytoplasmic TDP-43 accumulation causes diverse proteomic changes across time in neurodegeneration <u>SPEAKER</u> A/Prof. Adam Walker, Queensland Brain Institute	14:00	TITLE Dopamine release in the ventral pallidum regulates reward processing SPEAKER Matthew Williams-Spooner TITLE Effects of psilocin on neuronal networks of cortical brain organoids using a high-density multi-electrode assay (HD-MEA) SPEAKER Selin Pars	
	TITLE Advanced multi modal MRI to study the impact of fidgeting on executive function in ADHD SPEAKER Ms. Gina Waters, The University of Auckland	TITLE Aberrant mitochondrial metabolism in Alzheimer's disease links energy stress with ferroptosis SPEAKER Prof. Scott Ayton, The Florey	14:15		
14:20			14:30	TITLE Creating a micro-exon splicing map of early human brain development with genetically engineered pluripotent stem cell derived brain organoids SPEAKER Pallavi Gupta	
14:45	TITLE Creation of the Mātai Medical Research Institute <u>SPEAKER</u> Ms. Leigh Potter, Mātai Medical Research Institute	TITLE Mapping the metabolome of neurodegenerative diseases SPEAKER Dr. Rachelle Balez, University of Wollongong REMOTE PRESENTATION - LIVE Q&A	14:45	TITLE Genome-wide CRISPR activation screen reveals human genetic modulators of TDP-43-mediated toxicity and aggregation SPEAKER Matisse T Jacobs	
15:05	Questions	Data blitz 3: Networks, ciruits and plasticity in vision and olfaction 12:12 - Brain criticality analysis reveals excitation-inhibition balance and network stability in the primary visual cortex network; Han Wang 12:15 - Circuits underlying hyperexcitability and epilepsy in the piriform cortex; Muqin Zhang 12:18 - Rapid degeneration and neurochemical plasticity of the lateral geniculate nucleus following lesions of the primary visual cortex in marmoset monkeys; Nafiseh Atapour	15:00	TITLE Our Moon's Mission: Brain organoids as a platform to advance AAV9 gene therapy to clinical trials: a hereditary spastic paraplegia 56 case study SPEAKER Hannah Leeson	
15:15	Afternoon Tea, Exhibition and Poster Display				
15:45	AW Campbell Award Presentation Awardee: Dr Natalie Matosin				
16:10	Nina Kondelos Award Presentation Awardee: Professor Melanie Bahlo				
16:35	Illumina Neurogenomic Award Presentation				
16:45	International Plenary Lecture TITLE Extracellular vesicles serve as dynamic cellular communicators of stress & trauma SPEAKER Prof. Tracy Bale Chair: Prof. Janet Keast				
17:45	Welcome Reception				

7:15	Foyer Registration Desk Open				
9:00	ANS Plenary Lecture TITLE Repetitive transcranial magnetic Stimulation for sceptics: how understanding mechanisms drives translation and innovation <u>SPEAKER</u> A/Prof. Jennifer Rodger Chair: Ann-Maree Vallance (TBC)				
10:00		Morning Tea, Exhibition and Poster Display			
	Symposium 5: Characterising the fundamental mechanisms of brain stimulation Chairs: Dr. Jamie Beros, Dr. Aleks Miljevic & Dr. Jacqueline Iredale	Symposium 6: Leveraging GWAS to discover mechanisms and treatments for neurological and neuropsychiatric disorders Chairs: Dr. Maria Di Biase, Prof. Anthony J. Hannan Sponsored by the Department of Anatomy and Physiology, University of Melbourne		Selected Orals 3: CNS Injury Chair: Dr. Chidozie Anyaegbu	
10:30	TITLE Circuit Therapeutics for Disorders of Dopamine Dysfunction <u>SPEAKER</u> A/Prof. Susannah Tye, University of Queensland & Queensland Brain Institute	TITLE Examining the impact of common genetic variants on cerebellar morphology and disease within the ENIGMA consortium SPEAKER Prof. Sarah Medland, QIMR Berghofer Medical Research Institute	10:30	TITLE Chronic traumatic encephalopathy in Australia: six years of the Australian Sports Brain Bank SPEAKER Michael Buckland	
	TITLE Translating Foundational Mechanisms of Transcranial Magnetic Stimulation into Clinical Outcome SPEAKER Dr. Joshua Brown, McLean Hospital & Brain Stimulation Mechanisms Laboratory	TITLE Deciphering the expression and splicing patterns of neuropsychiatric risk genes during development and in adult human brain SPEAKER Dr. Michael Clark, University of Melbourne	10:45	TITLE AUS-mTBI: designing and implementing novel health informatics approaches to improve outcomes for people with mild TBI across Australia SPEAKER Jemma Keeves	
10:55			11:00	TITLE Unravelling the Neuropathology of Sudden Deaths During Infancy; Cell Death, Inflammation, Protein Regulation & Morphology SPEAKER Erika Gyengesi	
	TITLE Investigating the role of dopamine in stimulation-induced changes in behaviour with transcranial direct current stimulation	TITLE A GWAS-informed approach to implicate lead targets in Amyotrophic Lateral Sclerosis	11:15	TITLE The role of neuroinflammation in delayed neurodegeneration following photothrombotic stroke in rats SPEAKER Shannon Stuckey	
11:20	SPEAKER Dr. Li-Ann Leow, Edith Cowan University	SPEAKER Dr. Fleur Garton, University of Queensland	11:30	TITLE Exploring the long-term blood-brain-barrier alterations associated with post-stroke secondary neurodegeneration in an ovine model SPEAKER Rosie Costigan-Dwyer	
11:45	TITLE Non-synaptic mechanisms of rTMS <u>SPEAKER</u> Dr. Alexander Tang, Perron Institute & The University of Western Australia	TITLE Using genome-wide association studies to accelerate drug repurposing and precision medicine opportunities in brain disorders SPEAKER Dr. William Reay, Menzies Institute for Medical Research	11:45	TITLE Characterising maladaptive axonal and intrinsic plasticity in the sub-acute phase post stroke SPEAKER Emily King	
	Data Blitz 4: Stimulation and plasticity 12:12: Weakening of perineuronal nets following non-invasive brain stimulation; Maitri Tomar	Data Blitz 5: Neurogenetics 12:12 - Using statistical genetics to investigate the relationship between stress-related traits and Alzheimer's disease; Ayeisha Milligan Armstrong	12:00	TITLE An injectable hydrogel improves transcription factor-based neuronal reprogramming SPEAKER Negar Mahmoudi	
12:10	12:15 - Theta Burst Transcranial Magnetic Stimulation to Treat Premenstrual Dysphoric Disorder: An Open Label Pilot Study; <i>Elizabeth Thomas</i> 12:18 - Closed-loop stimulation in periods with less epileptiform activity drives improved epilepsy outcomes; <i>Daria Anderson</i> 12:21 - Hybrid Optogenetic and Electrical Retinal Prosthesis for Vision Restoration; <i>Wei Tong</i> 12:24 - Investigating the role of axon initial segment plasticity in learning; <i>Jack Sturgess</i>	12:15 - The role of immediate early genes and complement system in synergistic pathology of epilepsy and Alzheimer's Disease; <i>Anna Harutyunyan</i> 12:18 - Investigating Klotho gene expression patterns in healthy, Alzheimer's disease (AD) and treated human monocyte-derived microglia (MDMi); <i>Alan Moreira Henrique</i> 12:21 - Lewy pathologies in sporadic versus SNCA mutation Parkinson's disease; <i>Giselle Sagredo</i> 12:24 - Novel GFP-Reporter Mouse Model for Functional Analysis of the Epilepsy Gene Pcdh19; <i>Stefka Mincheva-Tasheva</i> 12:27 - Exploring Kir4.2 as a Novel Therapeutic Target in Parkinson's Disease; <i>Linlin Ma</i>	12:15	TITLE Biobehavioural assessment of methamphetamine use disorder: an interplay between genes, cognition, and duration of drug use SPEAKER Jee Hyun Kim	
12:30	Lunch, Exhibition and Poster Display				
12:30		Neuroscience Education & Outreach Workshop ANS Education Excellence Awardee: Jennifer Rodgers			

	Symposium 7: Mechanisms of neurodegeneration – insights from human brain imaging Chairs: Dr. Jenna Ziebell, Dr. Sarah Hellewell Sponsored by the Curtin Health Innovation Research Institute	Symposium 8: New insights for the role of striatal dopamine signaling in learning and behaviour Chair: Dr. Thomas Burton		Selected Orals 4: Neuroinflammation and Disease Mechanisms Chairs: Dr. Li Shan Chiu & Dr. Brittney Lins
13:30	TITLE Distinct ultrastructural phenotypes of glial and neuronal alpha-Synuclein inclusions in Multiple System Atrophy SPEAKER Dr. Amanda Lewis, EPFL, Lausanne, Switzerland	TITLE New evidence for dopamine signaling in retrospective learning SPEAKER Dr. Vijay Namboodiri, University of California, San Francisco USA	13:30	TITLE Microglia make direct contact with the cerebral vasculature through gaps between adjacent astrocyte endfeet SPEAKER Gary Morris
13:55	TITLE Focal perivascular inflammation is a feature of the tau lesions in Chronic Traumatic Encephalopathy SPEAKER Helen Murray, University of Auckland, New Zealand	TITLE Significance of intra-hemispheric differences in dopamine release SPEAKER Dr. Genevra Hart, University of New South Wales	13:45 14:00	TITLE Unveiling Cholinergic Vulnerability During Aging and Chronic glial activation in Alzheimer's Disease Pathogenesis SPEAKER Erika Gyengesi TITLE A new immunocompetent brain organoid model to study demyelinating diseases SPEAKER Giovanni Pietrogrande
14:20	TITLE New α-synuclein pathologies differ between multiple system atrophy and Parkinson's disease SPEAKER Dr. Victor Dieriks, University of Auckland, New Zealand	TITLE Molecular markers of plasticity vary across striatal territories and learning domains SPEAKER Dr. Miriam Matamales, University of New South Wales	14:15	TITLE Increased blood-brain barrier permeability following paediatric cancer treatments SPEAKER Maya Davies TITLE The impacts of childhood stress on human cortical neuroglia in stress-associated psychopathology SPEAKER Natalie Matosin
14:45	TITLE A tool to quantify copper in the living central nervous system SPEAKER Prof. Kay Double, The University of Sydney	TITLE Translating new developments into clinically-relevant outcomes using deep brain stimulation SPEAKER Dr. Roger Varela, Queensland Brain Institute	14:45	TITLE Paternal SARS-CoV-2 Infection Increases Anxiety in Offspring and Changes Sperm Small Noncoding RNA Profiles SPEAKER Elizabeth Kleeman
15:10	Data Blitz 6: Imaging neurodegeneration 15:12 - 3D assessment of iron & autophagy dysfunction in human post-mortem tissue of synucleinopathies; Matthew Boag 15:15 - GFAP expression in the brain during human postnatal development; Lauren Luijerink 15:18 - Affinity purification mass-spectrometry of tau pT217 implicates the CTLH E3 ubiquitin ligase as an early interactor; Tomas Kavanagh 15:21 - A novel probucol analogue lowers amyloid-beta level and prevents blood-brain barrier dysfunction in diabetic mice; Arazu Sharif 15:24 - Inflammatory Demyelination Disrupts the Cellular Integrity of the Neurovascular Unit; Jake Cashion	Data Blitz 7: Insights in myelin and axonal biology 15:12 - Multi-scale 3D mapping of myelinated afferent projections and terminals innervating the lower urinary tract in male and female rats; John-Paul Fuller-Jackson 15:15 - Decoding SARM1's role in cortical axon degeneration: a live imaging study; Ensieh Izadi 15:18 - Morphology of thinly myelinated sensory and autonomic axons in a mixed visceral nerve revealed by 3D electron microscopy, deep learning segmentation and quantitative computational image analysis; Peregrine Osborne 15:21 - The cuprizone-autoimmune encephalomyelitis (CAE) model of inflammatory demyelination causes immune cell infiltration, oligodendrocyte loss and gliosis in the adult mouse brain; Roisin Moloney 15:24 - Repurposing GABA-Acting Drugs for Myelin Repair: Insights from the Cuprizone Demyelination Model of Multiple Sclerosis; Chanelle Hazim	15:00	TITLE Extensive Splicing Dysregulation in Parkinson's Disease SPEAKER Tomas Kavanagh TITLE Progress towards viral gene therapy for Christianson syndrome SPEAKER Collin Anderson
15:30		Afternoon Tea, Exhibition and Poster Display		
16:00		Eccles Plenary Lecture TILE The search for a biomarker for brain tumours <u>SPEAKER</u> : A/Prof. Andrew Morokoff Chair: Prof. Melinda Fitzgerald		
17:00		ANS AGM		
18:00		IBRO-Sponsored Student-EMCR Networking Social THE POINT ROOFTOP BAR & RESTAURANT Registration required		
19:00		ANS Party THE POINT ROOFTOP BAR & RESTAURANT Registration required		

8:45	Registration Desk Open			
9:00		Equity & Diversity Committee Panel		
10:00		Morning Tea, Exhibition and Poster Display		
	Symposium 9: Sensorimotor integration for motor control, motor learning, and rehabilitation Chairs: Dr Aleksandra Miljevic & Dr. Jane Tan	Symposium 10: Building blocks of neuronal function and how misplaced pieces can lead to brain diseases Chair: Dr. Ramón Martínez-Mármol		Selected Orals 5: Insights into Cellular and Molecular Mechanisms Chairs: Dr. Olivier Clement (tbc) & Dr. May Aung-Htut
10:30	TITLE Rhythms of Learning: Exploring Error-Related Negativity in Motor Sequence Acquisition SPEAKER Kara Simpson, Curtin University	TITLE Fatty acids restore neuronal energy levels and synaptic function in hereditary spastic paraplegia SPEAKER Dr. Merja Joensuu, Australian Institute for Bioengineering and Nanotechnology, The University of Queensland	10:30	TITLE The role of LINE-1 retrotransposons in Amyotrophic Lateral Sclerosis SPEAKER Abigail Pfaff
10:55	TITLE Neural parameterization of goal-directed action depends on sensory context SPEAKER Dr. Michelle Marneweck, University of Oregon, USA	TITLE Molecular control of AMPA receptor exocytosis by the calcium- and phospholipid-binding protein Copine-6 SPEAKER A/Prof. Victor Anggono, Queensland Brain Institute, The University of Queensland	10:45	TITLE Potassium homeostasis during disease progression of amyotrophic latera Sclerosis SPEAKER Yossi Buskila
11:20	TITLE Manipulating specific brain oscillations for motor system plasticity and learning SPEAKER A/Prof. John Semmler, University of Adelaide	TITLE Regulation of the targeting of amyloid precursor protein (APP) from the cell surface to recycling endosomes by the neural cell adhesion molecule 2 (NCAM2) SPEAKER A/Prof. Vladimir Sytnyk, University of New South Wales	11:00	TITLE Maternal immune activation disrupts LINE-1 mobile DNA regulation during neurodevelopment SPEAKER Gabriela Bodea
11:45	TITLE Characterising sensorimotor plasticity and motor function in acute and persistent burn survivors SPEAKER A/Prof. Ann-Maree Vallence, Murdoch University	TITLE Targeting 14-3-3q - TDP-43 pathogenic interaction as a therapeutic strategy for amyotrophic lateral sclerosis and frontotemporal dementia SPEAKER Prof. Yazi Ke, Dementia Research Centre, Macquarie University	11:15	TITLE Increasing mTORC2 activity attenuates photoreceptor death in inherited retinal diseases SPEAKER Alicia Brunet
	Data blitz 8: Novel treatment strategies for neurodegeneration and injury 12:12 - Novel Small Molecule Strategies for Enhancing Proteostasis in Alzheimer's Disease; Ajish Ariyath 12:15 - Mitigation of Oxidative Stress-Induced Damage in SH-SY5Y Cells by	Data blitz 9: Insights from -omics 12:15 - Metabolic profiling of saliva predicts risk of cognitive impairment in people with breast cancer; Courtney Cross 12:18 - Impaired TYROBP/DAP12 signalling alters postnatal brain homeostasis;	11:30	TITLE Developmental dysfunction in a preclinical model for Kcnq2 development and epileptic encephalopathy SPEAKER Miaomiao Mao
12:10	Two Aqueous Phytoextracts; Okobi E Ekpo 12:18 - Development of Electroconductive Nerve Guidance Conduits with Gradient Conductivity; Priya Kaluskar 12:21 - Hypoxia modulates biological and cellular properties in three-dimensional	Liviu-Gabriel Bodea 12:21 Neuronal Sez6 proteins: major BACE1 substrates modulating microglial engulfment; Benjamin Wu	11:45	TITLE Heterogenous thirst sensitive neurons within the anterior cingulate cortex modulate water intake in response to dehydration in mice SPEAKER Khalid Elsaafien
	cultures of olfactory ensheathing cells; Md Mahbubur Rahman		12:00	TITLE Visualisation of cuprizone-induced copper depletion in mouse brain SPEAKER Brittney Lins
12:30		Lunch, Exhibition and Poster Display		

	Symposium 11: Developing maps of the brain - understanding how cortical and subcortical ensembles guide function Chair: Dr. Matilde Balbi	Symposium 12: Molecular switches in health and disease Chair: Prof. Chris Dayas		Selected Orals 6: Clinical Neuroscience Applications and Translational Research Chairs: A/Prof. Stephanie Rainey-Smith & Virginie Lam
13:30	TITLE Widefield calcium and diffusion imaging reveal the onset of structured activity and its underlying anatomical substrates in the neocortex of juvenile marsupials SPEAKER Dr. Dylan Black, University of Queensland	TITLE Gene-environmental interactions modulating small non-coding RNA transcriptomics and proteomics in a mouse model of affective dysfunction SPEAKER Dr. Maria Kuznetsova, The University of Newcastle		TITLE Unlocking The Origin: Deciphering The Critical Role of Neural Progenitor Cells In Pediatric High Grade Glioma Progression SPEAKER Kenny Chi Kin Ip
13:55	TITLE Probing the neural basis of learning SPEAKER Prof. Lucy Palmer, Florey Institute of Neuroscience and Mental Health	TITLE Adversity-Induced Molecular Alterations: Shaping Adult Brain Development SPEAKER Dr. Annabel Short, Telethon Kids Institute, Perth Children's Hospital		TITLE A systems-based strategy for personalised schizophrenia treatment using patient-derived olfactory neuronal stem cells SPEAKER Alexandre Cristino TITLE Making sense of a noisy world: How Does sensory variability account for motor noise? SPEAKER Nicholas Price
14:20	TITLE Mapping local and global interactions between parvalbumin inhibitory neurons and excitatory neurons over the cortex in awake mice SPEAKER A/Prof. Adam Bauer, Washington University School of Medicine	TITLE Exploring IncRNA as a therapeutic target in addiction SPEAKER A/Prof. Kelly Clemens, University of New South Wales	14:15 14:30	TITLE Anti-fibrotic drugs reduce the extent of cochlear implant-induced fibrosis in an in vivo guinea pig model of cochlear implantation <u>SPEAKER</u> Kady Braack
14:45	TITLE TBC SPEAKER Montana Samantzis, Queensland Brain Institute, University of Queensland	TITLE Human prefrontal cortex gene regulatory dynamics from gestation to adulthood at single-cell resolution SPEAKER Dr. Chuck Herring, University of Western Australia & Harry Perkins Institute		TITLE Structural studies of neutral amino acid transporters of the SLC6 family coupled with discovery of new inhibitors <u>SPEAKER</u> Jedrzej Kukulowicz
15:10	Data Blitz 10: Molecular and cellular neurobiology 15:12 - Transcription Factor-based Induced-differentiation of Immortalised Neuronal Cell Lines; Madeline Meli 15:15 - Insights into the role of the PAC1 receptor: Attenuation of ER stress in myelin degeneration and repair; Minduli Withana 15:18 - Structure and function of the human NALCN channelosome; Han Chow Chua 15:21 - Uncovering a novel APOE4 proteome signature using machine learning; Caitlin Finney 15:24 - Actin dysregulation in sporadic ALS; Cyril Jagaraj 15:27 - Developmental vitamin D deficiency increases DNA methylation in embryonic mesencephalon; Xiaoying Cui	Data Blitz 11: Neurodeneration and pain 15:12 - Role of Connexin 36 in the Development of Neuropathic Pain; Yufei Xu 15:15 - Pathological links between lipid dyhomeostasis in tau proteinopathy; Pawat Laohamonthonkul 15:18 - Role of Butyrate in the expression of Interleukin 4,6,8 in Alzheimer's disease; Uththara Senarath 15:21 - Plasma soluble TREM2 and its association with other biomarkers in cognitively normal older adults at risk of Alzheimer's disease; Prita Asih 15:24 Tadpoles, seizures, and leaky brains: an intriguing model of severe epilepsy; Sulagna Banerjee		TITLE Visualization and chemoproteomic-analysis of psychedelic drugs using click-chemistry compatible analogs SPEAKER Joseph Benetatos Data blitz 12: Clinical neuroscience of stress and mood 15:17 - Can threatening virtual reality protocols induce acute anxiety sufficient to cause physiological responses consistent with noradrenergic system activation?; James O'Loughlin 15:20 - Stress-related changes to the spatial localisation of hippocampal cortisol receptors in psychiatric disorders; 15:23 - The moderating effect of dietary patterns on the longitudinal relationship between depression, anxiety, and cognitive decline; Hilal Al Shamsi 15:25 - Unlocking the Gut-Brain-Axis: A Pilot Study Protocol on Faecal Microbiota Transplantation and Cognitive Function; Sara Alaeddin
15:30		Afternoon Tea, Exhibition and Poster Display		
16:00	Lawrie Austin Plenary Lecture TITLE Immunometabolic control of dopamine systems in health and disease: evolutionary perspectives and translational implications SPEAKER: A/Prof. Susannah Tye Chair: Dr. Samantha Gardner			
17:00	Presentaton of Awards and Conference Close Chair: Prof. Hamid Sohrabi			