

Draft programme: Inter-university Neuroscience and Mental Health Conference 2014

The Organising Committee reserves the right to alter the Programme if necessary

Day 1: Monday 29 September 2014

8.00am	Registration Desk Opens	
PLENARY SESSION – General Lecture Theatre, (K2.05) of The Quadrangle, University of Sydney		
9.00am	Opening Remarks	
9.05am	Welcome	
9.15am	Opening plenary: <i>The Increasing dimensionality of metabolic disorders in the prospect of mental health</i> Fernando Gomez-Pinilla , University of California Los Angeles, USA	
10.15am	Morning coffee	
PARALLEL SESSIONS		
	Session 1: Neurodegeneration Room: TBA Chair: TBA	Session 2: Imaging and innovation Room: TBA Chair: TBA
10:30	<i>Identifying the dynamics of Lewy body formation in Lewy body diseases</i> Glenda Halliday NeuRA & UNSW	<i>Probe-free multi-modal biochemical imaging for the study of the molecular mechanisms and treatment of diseases of the brain</i> Peter Lay University of Sydney
10:45	<i>Heritability in non-Alzheimer's disease tauopathies</i> Shelley Forrest University of Sydney	<i>Systematic method to reproduce brain functional connectivity from direct effective connectivity, interhemispheric connections and polysynaptic connections</i> Grishma Pandejee University of Sydney
11:00	<i>Neural correlates of emotion and social cognition: evidence from frontotemporal dementia</i> Rosi Hutchings NeuRA & University of New South Wales	<i>Using 3D based phylogenetics to explore the relationship between Cys-loop receptor binding sites</i> Troels Sorensen University of Sydney & University of Western Sydney
11:15	<i>Using dermis to treat dementia: functional analysis of skin-derived neural precursors</i> Aileen Lowe University of Sydney	<i>Development of a light-based neuroprotective therapy for Parkinson's disease</i> Dan Johnstone University of Sydney
11:30	<i>Age-related grey matter atrophy in the cerebellum</i> Teresa Yu University of Sydney	<i>Extending the viability of acute brain slices</i> Yossi Buskila University of Western Sydney
11:45	<i>Minimally-supervised exercise is effective in reducing falls in people with mild Parkinson's disease, but not more severe Parkinson's disease: a randomised controlled trial</i> Colleen Canning University of Sydney	<i>Open-Field-PET: a novel system for simultaneous measurement of brain function and behaviour in laboratory rats</i> Georgios Angelis University of Sydney
12:00	<i>Words over time: maintaining benefits of word retraining in Semantic Dementia</i> Sharon Savage University of New South Wales	<i>Dynamic ictal perfusion pattern with and without secondarily generalised tonic-clonic seizure: a voxel-based ECD-SPECT analysis in temporal lobe epilepsy</i> Andrew Bleasel University of Sydney
12.15	<i>The therapeutic potential of the cannabis constituent cannabidiol for Alzheimer's disease – a preclinical perspective</i> Tim Karl NeuRA & University of New South Wales	<i>N-acetyl aspartate: genomics, phenomics and metabenomics</i> Ziggy Harrison-Tickisci University of New South Wales
12.30-2.00pm	Lunch available in the Cloisters Poster presentations – even numbers	

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PARALLEL SESSIONS			
	Session 3: Neuropharmacology Room: Chair:	Session 4: Decision-making Room: Chair:	Session 5: Mental health treatment Room: Chair:
2:00	Behavioural sensitization to methamphetamine alters protein expression in the rat ventral hippocampus: Implications for psychosis Melanie Sauer Macquarie University	Information versus reward in a changing world Ben Newell University of New South Wales	Randomised controlled trial of group cognitive behavioural therapy compared to a discussion group for the treatment of comorbid anxiety and depression in older adults Viviana Wuthrich Macquarie University
2:15	Repeated low-dose Δ9-THC promotes long-term reductions in the acute neurobehavioural effects of the atypical antipsychotic clozapine Erik de Tonnerre University of Sydney	Delegation to automaticity: the driving force for cognitive evolution? James (Mac) Shine University of Sydney	A meta-analysis of computerized cognitive training in healthy older adults Amit Lampit University of Sydney
2:30	The role of different phosphorylation sites in rapid desensitization of the M-opioid receptor Arsalan Yousuf University of Sydney	Evidence that goal-directed and habitual action control are hierarchically organized Amir Dezfouli University of Sydney	Cognitively oriented goal setting (COGS) - a potential framework for supporting functional independence in serious mental illness Justin Scanlon University of Sydney
2:45	A Da-Sp-Enk interface promotes the insertion of the delta-opioid receptor on cholinergic interneurons in the striatum Emily Heath University of Sydney	Can we kick our bad habits? Understanding the effects of diet on decision making & the neural circuits underlying behavioural control Laura Corbit University of Sydney	Mental effort reward imbalances Model of attention deficit hyperactivity disorder Alison (Sally) Poulton University of Sydney
3:00	Delta-opioid receptor accumulation and internalisation in the nucleus accumbens shell and cue-guided choice Ashleigh Morse University of Sydney	The goal-directed pathway: A neuroanatomical and functional analysis of corticostriatal projection neurons Genevra Hart University of Sydney	Fitness to drive after surgery for unruptured intracranial aneurysms and AVMs Joan O'Donnell Macquarie University
3:15	The GHB analogue NCS-382 targets GABAA receptors containing β-β interfaces & induces hypothermia independently of δ-containing GABAARs Nathan Absalom University of Sydney	Medial orbitofrontal cortex governs the use of outcome representations when outcomes are unobservable Laura Bradfield University of Sydney	Exercise after stroke: Drive improvements by doing more Kate Scrivener Macquarie University
3:30	Additive modulation of α4β2 nicotinic acetylcholine receptors by two positive allosteric modulators binding in distinct sites Philip Ahring University of Sydney	Contingency degradation in humans: the role of background competition to reduce uncertainty in action-outcome predictions Richard Morris University of Sydney	Recovery Assessment Scale - Domains & Stages (RAS-DS): Measuring individual recovery outcomes and facilitating the process of recovery oriented action planning Nicola Hancock University of Sydney
3:45	The domain interface of the human glutamate transporter EAAT1 mediates chloride permeation Rosemary Cater University of Sydney	Cortical and subcortical correlates of emotion processing: an investigation in corticobasal syndrome and Alzheimer's disease Fiona Kumfor University of New South Wales	Integrating care for chronic mental ill-health: the Partners in Recovery Western Sydney Study Jennifer Smith-Merry University of Sydney
4.-4.30	Afternoon coffee		
PLENARY SESSION - General Lecture Theatre, (K2.05) of The Quadrangle, University of Sydney			
4.30-5.30	Day One Closing plenary: How the brain learns from the past to enable good decisions for the future: the neural basis of reinforcement learning John O'Doherty, California Institute of Technology, USA		
5.30-7.00	Drinks in the Nicholson Museum and Poster Presentations (even numbers) in the Cloisters		

7:00 Young Investigators Neuroscience and Mental Health Network Social Event – Holme & Sutherland rooms.

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Day 2: Tuesday 30 September 2014			
8.30am	Registration Desk Opens		
PLENARY SESSION - General Lecture Theatre, (K2.05) of The Quadrangle, University of Sydney			
9.00am	Opening plenary: Williams-Beuren Syndrome in the 21st Century - what have we learnt? May Tassabehji , University of Manchester, UK		
10.00	Morning coffee		
PARALLEL SESSIONS			
	Session 6: Neuroinflammation Room: Chair:	Session 7: Sensation and Perception Room: Chair:	Room: Chair: NeuroLaw Workshop 10:30-12:30
10:30	The molecular basis for the differential response to gp130 cytokines in astrocytes versus microglia Meng-Ping Hsu University of Sydney	Arm position signal dynamics in the parietal cortex David Kaplan Macquarie University	My brain made me do it!
10:45	Promoter selectivity for oligodendroglial expression following viral gene delivery Cynthia Wen University of New South Wales	Somatostatin type 2a receptors (sst2a) are not expressed on respiratory neurons in the ventral respiratory column (VRC) Sheng Le Macquarie University	10:30 Diseased preferences: implications of volitional impairments for legal capacity Sascha Callaghan & Richard Morris , University of Sydney
11:00	Loss of IRF9 Prevents Lethal Lymphocytic Choriomeningitis Virus Infection in Mice at the Cost of Viral Persistence and Chronic Inflammation in the CNS Markus Hofer University of Sydney	Time Dilation and Reaction Latency: Traffic Delays at the Information Bottleneck Andrew Duggins University of Sydney	10:55 Irresistible impulses? A legal case of drug-induced compulsive sexual behaviours Adrian Carter , Monash University
11:15	Exploring the pathogenesis of cerebral malaria three-dimensionally Georges Grau University of Sydney	Auditory Motion Perception and Tracking in Schizophrenia Martin Burgess University of Sydney	11:20 The ethics of neuroscience evidence in the courtroom Allan McCay, Christopher Ryan , University of Sydney
11:30	The effect of Oestrogen and Progesterone on Human Brain Tryptophan Metabolism Josien de Bie Macquarie University	Altered lipid levels provide evidence for myelin lipid dysfunction in multiple system atrophy W. Scott Kim University of New South Wales	11:45 Is it really ethical to prescribe antiandrogens to sex offenders to decrease their risk of recidivism? Chris Ryan , University of Sydney
11:45	Interferon regulator factor (IRF) 8 regulates the microglial response to neuronal injury Rui (Vicki) Xie University of Sydney	Muscle Specific Kinase autoantibodies disrupt synapse maintenance at the neuromuscular junction William (Bill) Philips University of Sydney	
12:00	Parkinsonism-associated human atp13a2 (park9) is required for zinc homeostasis and mitochondrial bioenergetics Jin Park University of Sydney	The influence of motor expertise on the brain activity of motor task performance: a meta-analysis study Jie Yang Macquarie University	12.10 The idiom of Normality: Examining what is normal & reevaluating what is degenerate Paul Mason , Woolcock Institute of Medical Research
12:15	'Neuroinflammation' differs categorically from inflammation: transcriptomes of Alzheimer's disease, Parkinson's disease, schizophrenia and inflammatory diseases compared Manuel Graeber University of Sydney	Switching attention in a conversation: the importance of working memory Gavin Lin University of Sydney	
12.30-2.00pm	Lunch available in the Cloisters Poster presentations – odd numbers		

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PARALLEL SESSIONS			
	Session 8: Development Room: Chair:	Session 9: Addiction and Obesity Room: Chair:	Session 10: Plasticity & Autonomic Systems Room: Chair:
2:00	The development of perineuronal nets around parvalbumin GABAergic neurons in the medial prefrontal cortex of rats Kathryn Baker University of New South Wales	Measuring the impact of age and body mass index on circadian activity patterns using functional linear modeling of actigraphy data Nahid Banihashemi University of Sydney	Retrograde endocannabinoid signaling shapes IPSC kinetics in the midbrain periaqueductal gray Karin Aubrey University of Sydney
2:15	Early life stress improved object recognition in female rats with no impact on anxiety-like behaviour Margaret Morris University of New South Wales	The impact of high fat / high sugar diets and voluntary exercise on hippocampal dependent tasks Amy Reichelt UNSW	Pain induced synaptic plasticity in the amygdala Sarah Kissiwa University of Sydney
2:30	Past maternal stress affects future maternal behaviour and alters the trajectory of fear development in subsequent infant rat offspring Janice Kan University of New South Wales	Acute exposure to saturated fat or sugar selectively impairs, while polyunsaturated fat enhances, hippocampal-dependent memory in the rat Jessica Beilharz University of New South Wales	Understanding the brain in the transition from acute to persistent musculoskeletal pain Siobhan Schabrun University of Western Sydney
2:45	Inheriting gut feelings: Probiotics reduce the effects of early-life stress across generations Caitlin Cowan University of New South Wales	Comparison of distorted and dysfunctional cognitions amongst morbidly obese and lean individuals Felipe Quinto Da Luz University of Sydney	Investigation of the widespread phosphorylation signaling associated with presynaptic plasticity Mark Graham University of Sydney
3:00	Using Magnetoencephalography (MEG) to examine neurological activation during emotion processing in anxious children Jennie Hudson Macquarie University	Oxytocin prevents ethanol actions at δ subunit-containing GABAA receptors and attenuates ethanol-induced motor impairment in rats Michael Bowen University of Sydney	Timecourse of brain plasticity during ECT Harry Hallock University Sydney
3:15	The relationship between speech and nonspeech processing and verbal language in children with Autism: An MEG Study Shu Yau Macquarie University	Alcohol misuse as a factor for neuroprogression in bipolar disorder: a neurobiological perspective Kate Chitty University of Sydney	Disinhibition of the midbrain colliculi unmasks coordinated autonomic, respiratory and somatomotor responses to natural stimuli Roger Dampney University of Sydney
3:30	The long-range regulation of transcription factor gene ARX is affected in patients with intellectual disability Silke Rinkwitz University of Sydney	Microglial proliferation and dystrophy in the brains of chronic alcoholics with hepatic encephalopathy Claude Dennis University of Sydney	Functional and structural changes in the brain associated with the increase in muscle sympathetic nerve activity in obstructive sleep apnoea Rania Fatouleh University of Western Sydney
3:45	Mental Health of young people with disabilities Stewart Einfeld University of Sydney	Baclofen for the treatment of alcohol dependence and possible role of comorbid anxiety Paul Haber University of Sydney	Brainstem changes associated with increased muscle sympathetic drive in obstructive sleep apnoea Vaughan Macefield University of Western Sydney
4.00-4.30	Afternoon coffee		
PLENARY SESSION - General Lecture Theatre, (K2.05) of The Quadrangle, University of Sydney			
4.30-5.30	Day Two Closing Plenary: Advances in the psychotherapy of eating and overweight disorders Anja Hilbert, University of Leipzig, Germany Closing remarks		
5.30			
5.30-7.00	Drinks and Poster Presentations (odd numbers) in the Cloisters		