POSTER ABSTRACT TITLES FOR 2015 – Inter-University Neuroscience and Mental Health Conference

Postgraduate and First Time Presentation i.e. eligible to be considered for Award

1
The role of executive functioning and alcohol cue reactivity in the regulation of alcohol consumption and drinking consequences in social drinkers
Warren B. Logge and Andrew J. Baillie
Department of Psychology, Macquarie University, Sydney

2
A rodent model of single-inescapable foot shock induces long-term reduction of microglial expression in the amygdala
Peter Michael Waters and Jonathon Arnold
Brain and Mind Centre, The University of Sydney, Australia

3
Type-D Personality is associated with increased levels of depression, anxiety, and stress; increased posttraumatic stress; and less security in relationships in severe burn injury patients
Ajdin Mujezinovic¹, Rachael Holt¹, Julia Kwiet¹,²,³, Dr.Rachel Kornhaber⁴, Assoc/Prof Loyola McLean ¹,⁵
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4 School of Health Sciences, University of Tasmania, and
5 Consultation-Liaison Psychiatry, Royal North Shore Hospital

4
Vasopressin V1a receptor antagonism blocks oxytocin’s attenuation of reinstatement of methamphetamine-seeking behaviour in rats
Everett, N.A.¹, McGregor, I.S.², Baracz, S.J.¹, Cornish, J.L.¹
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Adjuvative selective estrogen receptor modulator treatment increases bilateral hippocampus and inferior frontal gyrus activity during facial emotion processing in schizophrenia
Ellen Ji¹,³, Cyndi S. Weickert¹,²,³, Rhoshel Lenroot¹,²,³, Ans Vercammen¹,²,³,⁴, Christopher White⁵, Raquel Gur⁶, Thomas W. Weickert¹,²,³
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Cocaine unmasks Group III Metabotropic Glutamate Receptor (GP III mGluR) function & evokes long lasting increases in excitatory drive to lateral hypothalamic orexin neurons
Jiann Wei Yeoh¹, Jaideep Bains¹, Takeshi Sakurai¹, Brett Graham¹ and Chris Dayas¹
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3 Department of Molecular Neuroscience and Integrative Physiology, Faculty of Medicine, Kanazawa University, Kanazawa-shi, Ishikawa 920-8640, Japan
Mitochondrial DNA perturbations in the vestibular neuroepithelium of the aged rat
Mark J Bigland, Alan M Brichta and Doug W Smith
School of Biomedical Sciences & Pharmacy, Priority Research Centre for Translational Neuroscience & Mental Health, University of Newcastle, and the Hunter Medical Research Institute, Australia

The effect of pharmacological reduction of delta-opioid receptor expression in the nucleus accumbens shell on specific Pavlovian-instrumental transfer
Ashleigh Morse, Vincent Laurent and Bernard Balleine
Brain and Mind Centre, University of Sydney, Australia

Severe apathy is related to poorer prognosis in amyotrophic lateral sclerosis
Jashelle Caga,1,2 Martin R. Turner,3 Sharpley Hsieh,4 Rebekah M. Ahmed,4 Emma Devenney,4 Eneida Mioshi5 and Matthew C. Kiernan1,2
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Characterisation of glial and neuronal pathology in non-Alzheimer’s Disease tauopathies
Johannes C. Michael, Shelley L. Forrest, Ciara V. McGinley and Jillian J. Kril
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Statistical modelling of post-stroke aphasia recovery
Tea Uggen1, Dr. Tapan Rai1, Dr. Erin Godecke2
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Early changes in the caudate of young people with affective and psychotic disorders
Peta Eggins1, Daniel Hermens1, Elizabeth Scott1, Ian Hickie1 and Jim Lagopoulos1
1The Brain and Mind Research Institute, University of Sydney, Australia

The role of STAT1 serine 727 phosphorylation as a key regulator in Experimental Autoimmune Encephalomyelitis
Pattama Songkhunawej and Markus Hofer
School of Molecular Bioscience and The Bosch Institute, The University of Sydney

Glutamine modulates glycine neurotransmission in the superficial dorsal horn in the spinal cord of 14-21 day old Sprague-Dawley rats
Calum Nicholson and Dr. Karin Aubrey
School of Pharmacology, University of Sydney, Australia and Pain Management Research Institute, Kolling Institute, Royal North Shore Hospital, Australia
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Determining the fate of motor neurons that have been deprived of their supraspinal input by a spinal cord injury
Brandon Mark Wild, Rahul Mohan and Renée Morris
Translational Neuroscience Facility, School of Medical Sciences, The University of New South Wales, Australia

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Translocation of delta-opioid receptors on striatal cholinergic interneurons is mediated by a local dopamine - substance P interface and afferent projections from the basolateral amygdala
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Calcium Imaging of Retinal Ganglion Cell Responses to Extracellular Microelectrode Stimulation
Chih Yu Yang¹, John W. Morley² and Nigel H. Lovell¹
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²School of Medicine, Western Sydney University, Australia
Other Posters

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The Direct Action of Cannabidiol at GABA-A Receptors
Timothy Bakas1, Petra Van Nieuwenhuizen1, Jonathon Arnold2, Mary Collins1.
Faculty of Pharmacy1 & Faculty of Medicine2, University of Sydney, Sydney, NSW.

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Maternal immune activation alters molecular indices of the NMDA receptor in the striatum
Tasnim Rahman1,2,3, Katerina Zavitsanou1,2,3, Tertia Purves-Tyson1,2,3, Lauren Harms4,5,6, Crystal Meehan1,5,6, Ulrich Schall3,5,6, Juanita Todd4,5,6, Deborah Hodgson4,5,6, Patricia Michie4,5,6, Cyndi Shannon Weickert1,2,3
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5 Priority Centre for Translational Neuroscience and Mental Health Research, University of Newcastle, Australia
6 Brain and Mental Health, Hunter Medical Research Institute, Australia

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If I can’t have that snack then...: Cues associated with the specific or general absence of food rewards produce distinct influences on food-seeking actions.
Stephanie L. Quail, Vincent Laurent and Bernard W. Balleine
Brain and Mind Centre, University of Sydney

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Suppression of spontaneous activity in a noise-induced hearing loss model
School of Medicine, The University of Western Sydney

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Tactile aftereffect strength depends on the speed of adapting motion
1 Faculty of Health Sciences, University of Sydney
2 School of Psychology, University of Sydney
3 Neuroscience Research Australia
4 The MARCS Institute, University of Western Sydney
5 School of Medical Sciences, UNSW Australia

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Structural changes in the cognitive control network are associated with improvements in cognitive performance during development
Isabella Breukelaar1, Stuart M. Grieve3, Leanne M. Williams1,2,3, Mayuresh S. Korgaonkar1,2
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The blood-brain barrier may be more permeable in individuals who have schizophrenia with elevated inflammatory markers
Helen Cai\textsuperscript{1,2,3}, Vibeke Catts\textsuperscript{1,2,3}, Cyndi Shannon Weickert\textsuperscript{1,2,3}
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The PI3K/Akt/GSK3\textbeta Pathway is not involved in early Alzheimer’s disease
Julia Lim\textsuperscript{1}, Ariah Steel\textsuperscript{1}, Lezanne Ooi\textsuperscript{2}, Jillian Kri\textsuperscript{1} and Greg Sutherland\textsuperscript{1}
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Effects of IL-35 gene therapy on neuroinflammation and neuropathic pain following peripheral nerve injury
Chamini J Perera, Justin G Lees, Brett Fivelman, Samuel S Duffy, Preet GS Makker, Ryan Tonkin, Gila Moalem-Taylor
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Homeostatic STAT1 signalling restricts endogenous retroviral gene expression in the CNS
Barney Viengkhou, Iain L. Campbell and Markus J. Hofer
School of Molecular Bioscience and the Bosch Institute, The University of Sydney, Australia

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Extending the viability of acute brain slices
Yossi Buskila\textsuperscript{1}, Morven Cameron\textsuperscript{2}, Orsolya Kekesi\textsuperscript{1,2}, Paul P. Breen\textsuperscript{1}, Matthew Barton\textsuperscript{2}, & John W. Morley\textsuperscript{1,2}
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Exploring the neurobiobehavioural basis of baclofen in the treatment of alcohol dependence.
Kirsten C. Morley\textsuperscript{1}, Warren Logge\textsuperscript{2}, Andrew Baillie\textsuperscript{3}, Isabel Fraser\textsuperscript{3}, Richard Morris\textsuperscript{3}, Jim Lagopolous\textsuperscript{3}, Paul Haber\textsuperscript{1,4}
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Effects of chemogenetic and optogenetic manipulation of the striatopallidal pathway on the renewal and reacquisition of extinguished alcohol seeking
Asheeta Prasad, Audrey Khoo, Gabrielle Gibson & Gavan McNally
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The role of different phosphorylation sites in \mu-opioid receptor desensitization
Arsalan Yousuf
The University of Sydney
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Differential attenuation of auditory and visual evoked potentials for sensations generated by hand and eye movements
Nathan Mifsud, Tom Beesley and Thomas Whitford
School of Psychology, UNSW Australia

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The role of the basolateral amygdala in the consolidation of second-order conditioned fear
Belinda P. P. Lay, Nathan M. Holmes, R. Fred Westbrook
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Modulation of hippocampal and olfactory neurogenesis in the adult mouse brain
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Addressing rare variant contributions to the genetic architecture of Bipolar Disorder, utilizing extended families with highly penetrant forms of illness
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Genetic variation in GRM5 is associated with cognition, hippocampal volume and schizophrenia
Natalie Matosin Ph.D.1,2,3, Yann Quidé Ph.D.1,2, Ian C. Gould Ph.D.1,2, Nina Teroganova B.MSc. Hons1,2, Jessica L. Andrews B.Sc. Hons1,2, Kelly A. Newell Ph.D.1,3, Melissa J. Green Ph.D.1,2,4,5 and Francesca Fernandez-Enright Ph.D.1,2,4
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External electrical stimulation activates voltage-gated potassium currents
Morven Cameron, Western Sydney University; Amr Al Abed, UNSW; Nigel Lovell, UNSW; Socrates Dokos, UNSW; John Morley, Western Sydney University

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Chronic methamphetamine self-administration dysregulates oxytocin plasma levels and oxytocin receptor fibre density in the nucleus accumbens core and subthalamic nucleus of the rat
Sarah Jane Baracz, Lindsay Parker, Anastasia Suraev, Nicholas Adams Everett, Ann Goodchild, Iain McGregor, and Jennifer Louise Cornish.
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