

9th Annual Scientific Meeting of Biological Psychiatry Australia
The Florey Institute of Neuroscience & Mental Health
Kenneth Myer Building (KMB), The University of Melbourne
27th - 29th October 2019

Sunday 27th October 2019

16:30 - 17:30 Information desk open / Merchandise sales

17:00 **Welcome Reception (KMB foyer)**

17:30 - 18:30 **International speaker**
Professor Rachel Upthegrove, University of Birmingham
"Neuroimmunology and Youth Mental Health: lessons, challenges and precision medicine opportunities."

18:30 - 19:00 Mentoring match-up, Education Centre (KMB Ground Fl)

18:30 - 21:00 Social mixer

Monday 28th October 2019

8:30 - 9:30 Information desk open / Merchandise sales

8:45 - 9:00 **Opening address:** Andrea Gogos and Jee Kim (Co-chairs, Local Organising Committee) and Darryl Eyles (President, Biological Psychiatry Australia)

9:00 - 10:15 **Symposium I: The vulnerable brain: How stress and sociality affect susceptibility to addictive behaviours.**
Co-chairs: Professors Chris Dayas & Andrew Lawrence

Kelly Clemens: Social isolation changes how cues motivate reward-related behaviour

Leigh Walker: The role of neuropeptides in stress-induced vulnerability to alcohol seeking

Sarah Baracz: The impact of early life or adolescent stress exposure on vulnerability for methamphetamine addiction in male and female rats

Alexandre Guérin: Investigating the association between childhood trauma, gene polymorphisms and cognition in individuals with methamphetamine use disorder

Discussants: Chris Dayas and Andrew Lawrence

10:15 - 10:45 **Data blitz I: Early Career Researchers**

Claire O'Callaghan: Noradrenergic contributions to neuropsychiatric and cognitive symptoms in Parkinson's disease – ultra-high field imaging of locus coeruleus and the effects of atomoxetine

Michael Clark: Revealing the splicing profiles of neuropsychiatric disease genes in human brain with long-read sequencing

Ilvana Dzafic: The neural dynamics of sensory learning across the psychosis continuum

Adam Walker: Chemobrain: Long-term cognitive deficits and depression-like behaviour in mice treated with chemotherapy

Rose Chesworth: Addiction-relevant behaviour for cocaine in a Neuregulin 1 mouse model of schizophrenia

10:45 - 11:15 Information desk open / Merchandise sales

Morning tea

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11:15 - 11:45

Data blitz II: PhD Students

Hannah Savage: Clarifying the neural substrates of threat and safety reversal learning in humans

Kristina Sabaroedin: Effective connectivity of frontostriatal systems in first-episode psychosis

Alec Jamieson: Effective connectivity alterations in the face processing network for young people with depression

Kyna-Anne Conn: Schizophrenia-relevant dopamine antagonism modifies choice behaviour in mice

Annai Charlton: Chronic alcohol consumption leads to cognitive deficits that are recovered with abstinence

11:45 - 12:45

7th Issac Schweitzer Lecture

Professor Brian Dean, Florey Institute of Neuroscience & Mental Health

"The biology of major depression: New insights suggested by changes in cortical gene expression."

12:45 - 12:50

The Dax Centre introduction by Ms Charmaine Smith

12:50 - 13:30

Lunch

13:30 - 14:30

Group 1 poster presentations (The Dax Centre)

14:30 - 15:45

Symposium II: What is the way forward for biological psychiatry?

Chair: A/Professor Sarah Cohen-Woods

Sarah Cohen-Woods: Psychiatric genomics: what to do when it's just not big enough?

Micah Cearns: Advancing machine learning methods in psychiatry: Combating systematic overestimation, standardising practice, and creating clinically useful tools

Maarten van den Buuse: Animal models in biological psychiatry: past, present and future

Scott Clarke: Lost in Translation: Bench to Bedside

Discussants: Tony Hannan and Jayashri Kulkarni

15:45 - 16:15

Afternoon tea

16:15 - 17:15

10th Aubrey Lewis Lecture

A/Professor Marta Garrido, The University of Melbourne

"From prediction errors to computational psychiatry."

18:00 - 22:00

BPA Social, Prince Alfred Hotel (Grattan St, Parkville)

Special presentation by Professor Shitij Kapur

Dean of Faculty MDHS, The University of Melbourne

"The challenge of developing biomarkers in the clinic:

How long must the psychiatrist wait?"

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Tuesday 29th October 2019

8:30 - 9:30	Information desk open / Merchandise sales
8:45 - 10:00	<p>Symposium III: Stress, reward and control in eating disorders: Insights from rodent models and human studies.</p> <p align="center"><i>Co-chairs: Drs Sarah Lockie & Claire Foldi</i></p> <p>Claire Foldi: Motivation for starvation: Reward abnormalities in anorexia nervosa</p> <p>Robyn Brown: Why do women overeat? Characterizing a model of 'emotional' binge eating in female mice</p> <p>Antonio Verdejo-Garcia: Neural dynamics underpinning binge eating and food addiction</p> <p>Sarah Maguire: The clinical spectrum of anorexia nervosa – a model for conceptualising severity and treating it</p> <p><i>Discussant: Sarah Lockie</i></p>
10:00 - 10:30	<p align="center">Data blitz III: Open Call</p> <p>Luke Ney: Endocannabinoid reactivity following acute stress in saliva and plasma samples of healthy participants</p> <p>Cecilie Koldbaek Lemvig: Genetic and environmental influences on specific cognitive functions measured by CANTAB and associations to schizophrenia: A nationwide twin study</p> <p>Chao Deng: Epigenetic modulations of adipogenesis and lipogenesis contribute to antipsychotic-induced metabolic disorders</p> <p>Alice Petty: The EDIPS model shows a progressive onset of behavioural phenotypes, relevant to the prodrome of schizophrenia</p> <p>Chris French: Widefield dynamic network visualisation at the single neuron level reveals strong modulation of memory biomarkers by haloperidol</p>
10:30 - 11:00	Information desk open / Merchandise sales
Morning tea	
11:00 - 12:00	<p align="center">ECR Network: How to initiate and maintain successful collaborations.</p> <p align="center">Chair: Lisa-Marie Greenwood. Panel: Melissa Benson, Katrina Green, Alice Petty, Stephen Wood</p>
12:00 - 12:30	<p align="center">Highest ranked abstracts</p> <p>Angeline Leong: The impact of maternal immune activation and adolescent cannabinoid exposure on interneuron and neurodevelopment markers in a rat two-hit model of schizophrenia</p> <p>Nicholas Everett: The vagus nerve mediates the suppressing effects of peripherally administered oxytocin on methamphetamine self-administration and relapse in rats</p> <p>Christin Weissleder: Reduced neurogenesis marker expression is associated with altered trophic support and inflammation in the human subependymal zone in schizophrenia and bipolar disorder</p>
12:30 - 13:00	Lunch
13:00 - 14:00	<p align="center">International speaker</p> <p align="center"><i>A/Professor Kenneth Fish, Pittsburgh University</i></p> <p align="center"><i>"Region-, layer-, and cell type-specific GABAergic alterations in the cortical visuospatial working memory network in schizophrenia."</i></p>
14:00 - 15:00	Group 2 poster presentations (The Dax Centre)
15:00 - 15:30	Afternoon tea
15:30 - 16:15	BPA Annual General Meeting
16:15 - 16:30	Prizes and awards
16:30 - 16:45	<p>Conference discussant</p> <p align="center"><i>Professor Kim Felmingham, The University of Melbourne</i></p>
	Conference closed