

Sunday, 15 November 2009

Registration

12:00 PM - 6:30 PM

Foyer

Neuropsychiatric Disorders/Addiction

1:00 PM - 3:00 PM

Grand Ballroom 3

Chair: Ruth Arkell and Paul Dawson

- 1:00pm **Peter Schofield**
Genetic studies of bipolar disorder *abs#001*
- 1:30pm **Brian Dean**
The role of muscarinic receptors in the pathology and treatment of schizophrenia: Identification of a muscarinic receptor deficit schizophrenia *abs#002*
- 2:00pm **Emma Burrows**
Environmental modulation of schizophrenia-related behaviours in the metabotropic glutamate receptor 5 knockout mouse: involvement of the N-methyl-D-aspartic acid receptor *abs#003*
- 2:15pm **Janice Fullerton**
Two-dimensional genome scan identifies multiple epistatic interactions in bipolar affective disorder *abs#004*
- 2:30pm **Daniel Hermens**
Neurophysiological biomarkers of early psychosis *abs#005*
- 2:45pm **Alex Wilde**
Community interest in predictive genetic testing for susceptibility to major depression in a large national sample *abs#006*

Afternoon Tea

3:00 PM - 3:30 PM

Exhibition Area

Genetics and Biology of Learning and Memory

3:30 PM - 5:30 PM

Grand Ballroom 3

Chair: Simon Foote and Emma Parkinson-Lawrence

- 3:30pm **Jozef Gecz**
The genetic landscape of intellectual disability arising from chromosome X *abs#007*
- 4:00pm **John Christodoulou**
New Frontiers of Rett Syndrome Research: the Sydney Perspective *abs#008*
- 4:30pm **Liam Coulthard**
Expression of complement genes in the developing murine neural tube and effects of dietary folate deficiency *abs#009*
- 4:45pm **Paul Dawson**
Autism, hyposulfataemia and the NaS1 sulfate transporter *abs#010*
- 5:00pm **Rob Richards**
Pathways of pathogenesis in dominant expanded repeat diseases *abs#011*
- 5:15pm **Peter Taylor**
Dystrophin gene mutation location and the risk of cognitive impairment in muscular dystrophy *abs#012*

Edwards Oration

5:30 PM - 6:30 PM

Grand Ballroom 3

Session sponsored by Children's Cancer Institute Australia

Chair: Nigel Laing and Alison Butt

- Charles Watson**
Genes that build the brain *abs#013*



Dinner Break

6:30 PM - 8:00 PM

Delegates Choice

Poster Session

8:00 PM - 10:00 PM

Exhibition Area

Margaret Leigh Ackland

The omega-3 fatty acid, DHA, acts through a zinc-dependent mechanism to prevent neuronal cell death *abs#051*

Obaid Albulym

Investigating the Frequency and Distribution of Gene Mutations in Australian Families with Distal Hereditary Motor Neuropathy (dHMN) *abs#052*

Ruth Arkell

The Origin of *ZIC2*-Associated Holoprosencephaly *abs#053*

Ann Aziz

Finding risk factor genes for familial Bell's Palsy *abs#054*

Catherine Blizzard

Focal damage to the adult rat neocortex induces wound healing accompanied by axonal sprouting and dendritic structural plasticity *abs#055*

Andrew Brown

What do Antipsychotic Drugs have in common with a Neurogenetic Disease? *abs#056*

Pike-See Cheah

Role of Sox3 in the cerebellum development *abs#057*

Nigel Clarke

RYR1 is a common cause of congenital fibre type disproportion with scoliosis, ptosis, ophthalmoplegia and pronounced axial muscle weakness *abs#058*

Louise Corben

Examination of cognitive function in Friedreich ataxia using the Simon task. *abs#059*

Carina Cowley

Prenatal ethanol or endotoxin exposure induces metallothionein above gestational levels throughout pregnancy *abs#060*

Mark Davis

Genetic testing for HSP – the experience so far *abs#061*

Carol Dobson-Stone

Investigation of the *SIGMAR1* locus for association with dementia phenotypes *abs#062*

Thomas Fath

The role of tropomyosins in neuronal development and disease *abs#063*

Ella Hoban

Multiple Sclerosis and the serotonin transporter gene *abs#064*

Darren Hocking

Ocular motor fixation deficits in Friedreich ataxia: An indication of cognitive impairments *abs#065*

Katherine Hosie

Compartmentalised exposure of cultured neurons to excitotoxicity: an in vitro model of Amyotrophic lateral sclerosis *abs#066*

Paulina Janeczek

Association of Genetic Variations in the α -Synuclein Gene with Alcoholism *abs#067*

Daniel Johnstone

Genome-wide brain gene expression changes related to Alzheimer's disease and other neurodegenerative disorders in mouse models of dietary iron overload and human haemochromatosis *abs#068*

King Ling

Functional analysis of novel antisense transcripts at *Sox4* gene locus during mouse cerebral corticogenesis *abs#069*

Rachel MacKay

Changes in gene expression of 14-3-3 transcripts in human alcoholic brains *abs#070*

Bridget Maher

Suggestive Linkage to Xq28 Locus in 3 Independent Migraine Families *abs#071*

Motamed Mahmoud

Capsaicin inhibits IFN-gamma-induced MHC class II expression by suppressing transcription of class II transactivator gene in murine peritoneal macrophages *abs#072*

Saraswathy Menon

The interaction of genotype, vitamin status and homocysteine level on migraine severity *abs#073*

Kym Mina

First confirmed *VCP* gene mutation in an Australian family with IBMPFD *abs#074*

Randal Moldrich

Telencephalic patterning and malformation of forebrain commissures: a role for high angular resonance diffusion imaging and Q-ball tractography *abs#075*

Hayley Mountford

Determining the molecular basis of neurogenetic disease- accelerated gene identification for brain disorders *abs#076*

Ruth Musgrove

Alpha-synuclein upregulation is a neuroprotective response of dopaminergic and cortical neurons *abs#077*

Jonathon Niclis

Neural Differentiation of Human Embryonic Stem Cells is Impaired by the Huntington's Disease Mutation *abs#078*

Dale Pavlovski

The complement factor C5a induces apoptosis in neurons through interaction with the C5a receptor, CD88 *abs#079*

Gianina Ravenscroft

A transgenic mouse model of severe skeletal muscle disease (actinopathy) *abs#080*

Simone Rowley

Molecular Characterisation of a Novel Case of Friedreich Ataxia *abs#081*

Joseph Sarsero

Transgenic genomic reporters for functional studies and stem cell therapy *abs#082*

Ulrich Schall

Phenotyping of schizophrenia by multi-modal brain imaging *abs#083*

Sarah Stephenson

Evolutionary analysis of the relationship between the PRKN and PACRG genes *abs#084*

Cenk Suphioglu

Effect of zinc and DHA on expression levels and post-translational modifications of histones H3 and H4 in human neuronal cells *abs#085*

Geneieve Tai

Measuring the impact of Friedreich ataxia using the Friedreich Ataxia Impact Scale (FAIS). *abs#086*

Kaye Trembath

Avoiding a passive lifestyle may delay the onset of Huntington Disease *abs#087*

Leigh Waddell

Improving the diagnosis of muscular dystrophies by applying evidence based practice *abs#088*

Adrian West

Are metallothioneins an endogenous defence against A β toxicity? *abs#089*

Alexander Widiapradja

Identification of the complement C5L2 receptor on neuronal cells: Effects of hypoxia and energy deprivation *abs#090*

Monday, 16 November 2009

Registration

Foyer

7:30 AM - 3:30 PM

Neurodegeneration 1: Alzheimer's disease, Motor Neuron disease, Multiple Sclerosis

8:00 AM - 10:00 AM

Grand Ballroom 3

Session sponsored by Wicking Dementia Research and Education Centre

Chair: James Vickers and Ingrid Scheffer



8:00am

Glenda Halliday

Genetic forms of Alzheimer's disease: what can they tell us? *abs#014*

8:30am

Jim Stankovich

Genome-wide association studies to identify multiple sclerosis susceptibility loci *abs#015*

9:00am

Arezoo Assareh

The association of the *SORL1* gene variants with brain white matter hyperintensities and dementia *abs#016*

9:15am

Tracey Dickson

Novel alpha-internexin pathological alterations in both the spinal cord and forebrain of the G93A SOD1 model of Amyotrophic Lateral Sclerosis *abs#017*

9:30am

Bruce Taylor

Lower levels of serum 25-hydroxyvitamin D₃ are associated with a reduced hazard of relapse in Multiple Sclerosis *abs#018*

9:45am

Trent Woodruff

Role of the Complement Factor C5a in Neurodegenerative Disease *abs#019*

ASMR AGM

10:00 AM - 11:00 AM

Grand Ballroom 3

Morning Tea

11:00 AM - 11:30 AM

Exhibition Area

Neuronal Injury

11:30 AM - 1:00 PM

Grand Ballroom 3

Chair: Andrew Brown and Kathy Andrews

11:30am

Ingrid Scheffer

Abstract not available at time of print *abs#020*

12:00pm

Alison Compton

Identifying Novel Complex I Disease Genes through Phylogenetic Profiling: from Bioinformatics to the Bench *abs#021*

12:15pm

Steven Nasioulas

5q14.2-q15 microdetion syndrome associated with Myoclonic seizures *abs#022*

12:30pm

Jerome Staal

Initial calcium release from intracellular stores followed by calcium mismetabolism is linked to axonal sprouting and secondary axotomy following transient neuronal stretch injury *abs#023*

12:45pm

John Thundyil

Role of Adiponectin Receptors in Ischaemic Stroke induced Neuronal Cell Death *abs#024*

Lunch

1:00 PM - 2:00 PM

Exhibition Area

Firkin Oration

2:00 PM - 3:00 PM

Grand Ballroom 3

Session sponsored by CSL Limited

Chair: Sarah Meachem and Martin Delatycki

Jonathan Flint

Candidate gene studies in psychiatric disorders *abs#025*



Free Time

3:00 PM - 5:00 PM

Delegates Choice

Government House Reception

5:45 PM - 7:00 PM

Government House

Buses depart at 5:45pm from the front of the hotel

Conference Dinner

7:00 PM - 10:30 PM

Marque iv

Tuesday, 17 November 2009

Registration

Foyer

7:30 AM - 2:00 PM

Muscle Disorders

8:00 AM - 10:00 AM

Grand Ballroom 3

Session sponsored by Western Australian Institute for Medical Research Inc.

Chair: Martin Lavin and Rosemary Keogh



- 8:00am **Kathryn North**
A gene for speed: *ACTN3*, athletes, evolution and impact on human health. *abs#026*
- 8:30am **Kristen Nowak**
Skeletal muscle actin diseases: from genetics to possible therapy *abs#027*
- 9:00am **Nigel Clarke**
Insights into muscle fibre growth from congenital fibre type disproportion *abs#028*
- 9:15am **Michaela Kreissl**
Molecular pathogenesis of muscle weakness due to dominant mutations in the α -tropomyosin_{slow} gene (*TPM3*) *abs#029*
- 9:30am **Phillipa Lamont**
Laing distal myopathy: wider range of clinical, pathological and MRI features than previously thought *abs#030*
- 9:45am **Leigh Waddell**
The benefits of sequencing large genes using cDNA from MyoD-transduced fibroblasts. *abs#031*

Morning Tea

10:00 AM - 10:30 AM

Exhibition Area

Therapies

10:30 AM - 12:30 PM

Grand Ballroom 3

Chair: Andrew Laslett and Kathy North

- 10:30am **Sharon Byers**
CNS disease in the mucopolysaccharidosis disorders: evaluation of potential treatments *abs#032*
- 11:00am **Sandra Cooper**
The muscular dystrophy protein *dysferlin* and the molecular machinery of muscle membrane resealing. *abs#033*
- 11:15am **Marguerite Evans-Galea**
Suppression of clonal dominance by addition of the *cHS4* insulator to a lentiviral vector. *abs#034*
- 11:30am **Joseph Sarsero**
Gene regulation studies of the Friedreich ataxia locus *abs#035*
- 11:45am **Lingli Li**
High throughput screening for the pharmacological therapy of Friedreich Ataxia *abs#036*
- 12:00pm **Nigel Laing**
Maximising the benefit of genetic information: population screening for Duchenne muscular dystrophy *abs#037*

Lunch including special student lunch

12:30 PM - 1:30 PM

Exhibition Area

Neurodegeneration 2: Parkinson's disease, Huntington disease, ataxias

1:30 PM - 3:30 PM

Grand Ballroom 3

Chair: Fabienne Mackay and Kristen Nowak

1:30pm

Anthony Hannan

Molecular mediators, environmental modulators and behavioural endophenotypes in a transgenic mouse model of Huntington's disease *abs#038*

2:00pm

Martin Lavin

Senataxin, defective in ataxia oculomotor apraxia type 2, is involved in transcription and the defense against oxidative DNA damage. T *abs#039*

2:15pm

Martin Delatycki

Clinical studies in Friedreich ataxia *abs#040*

2:30pm

Anthony Cook

Restoration of Parkinson's disease-related decreases in glutathione and MTS metabolism levels by activation of the NRF2 transcription factor *abs#041*

2:45pm

John Kwok

The microtubule-associated protein Tau (*MAPT*) gene promoter is hypo-methylated in neurodegenerative diseases. *abs#042*

3:00pm

Paul Lockhart

Characterisation of the interaction between parkin and Parkin Co-Regulated Gene and potential role in microtubule dynamics in response to cell stress *abs#043*

3:15pm

Elizabeth Milward

The relationship between Parkinson's disease and melanoma - insights from microarray analysis of genome-wide gene expression changes in melanoma *abs#044*

Award Presentation and Close

3:30 PM - 3:45 PM

Grand Ballroom 3