

## FOUNDATION GRANTS - 2014

### BRAIN SCIENCES RESEARCH: PSYCHIATRY AND NEUROLOGY

**Prof Simon Koblar**

University of Adelaide

*"Adult human dental pulp stem cell therapy for chronic stroke."*

**Dr Kyle Upton**

Mater Research

*"Using single cell sequencing to define the prevalence and effect of retrotransposon induced insertional mutagenesis in the brain."*

**Prof Phillip J. Robinson**

Children's Medical Research Institute

*"Building new synaptic vesicles in nerve terminals."*

**Dr Marcel Batten**

Garvan Institute of Medical Research

*"Understanding how novel MS-associated genes influence disease susceptibility."*

**Dr Gabrielle Callander**

The University of Melbourne

*"Anti-epileptic drugs targeting AMPA receptors."*

**Prof John Mattick**

Garvan Institute of Medical Research

*"Modulation of gene expression in human neurons derived from patients."*

**Dr Margaret Jordan**

James Cook University

*"Causes of multiple sclerosis: A functional genomics approach."*

**Prof Cheryl Jones**

The University of Sydney and The Children's Hospital at Westmead

*"Discovering the infectious causes of unknown Encephalitis cases using genomic approaches: the DICE study."*

**Dr Nicholas Cole**

Macquarie University

*"Developing a model of the newly discovered and most common form of genetically inherited form of human Motor Neuron Disease (MND), C9ORF72, using zebrafish."*

**Dr Andrea Abdipranoto**

The Garvan Institute

*"The therapeutic potential of blockers of inflammation in Alzheimer's disease."*

**Prof Steven Collins**

The University of Melbourne

*"Assessing the acute in vivo neurotoxicity of misfolded, disease-associated prion protein species (PrPSc) underpinning prion disease."*

**Dr Lezanne Ooi**

University of Wollongong

*"A novel method to investigate the susceptibility to cellular stress in cells from Alzheimer's disease patients."*

**Dr Julie Wheway**

University of Sydney

*"Characterizing plasma microparticle content in multiple sclerosis patients."*

**Dr Caroline Moul**

University of New South Wales

*"Two sides of the same coin: utilising evidence from psychopathy research to improve our understanding of the genetic and behavioural bases of anxiety disorders."*

**Mr Steven Turner**

Neuroscience Research Australia (NeuRA)

*"Understanding the genetic contributors towards Cerebral Palsy."*

**Dr Scott Kim**

Neuroscience Research Australia (NeuRA)

*"Defining the lipid dystrophy pathway in multiple system atrophy."*

**Dr Connie Wong**

Monash University

*"Brain-immunity axis in stroke."*

## **ENDOCRINOLOGY AND DIABETES RESEARCH**

### **Prof Tailoi Chan-Ling**

University of Sydney

*"CNS Inflammation & Bone Marrow Neuropathy in Diabetes."*

### **A/Prof Susan McLennan**

University of Sydney

*"Circulating monocyte phenotype: is it altered in association with the development of diabetic complications?"*

### **Prof Bernie Tuch**

CSIRO Materials Science Engineering

*"Diabetes stem cell project & oxygenation."*

### **Dr Zane Andrews**

Monash University

*"Genetic dissection of how the brain controls appetite."*

### **Prof Ann Simpson**

University of Technology Sydney

*"Reversal of diabetes using engineered bone marrow derived mesenchymal stem cells."*

### **A/Prof Maria Craig**

Institute of Endocrinology and Diabetes, The Children's Hospital at Westmead

*"A novel in vivo model for investigating the role of enteroviruses in type 1 diabetes."*

### **A/Prof Mark Gorrell**

Centenary Institute

*"Protease therapies for diabetes-associated liver disease."*

### **A/Prof Amanda Salis**

The University of Sydney, Boden Institute

*"Gold-standard assessment of energy expenditure and aerobic fitness during interventions to prevent diabetes."*

## **GERIATRIC RESEARCH**

### **Prof Derek Hart**

ANZAC Research Institute

*"Low Side Effect Therapy For Malignancies In The Elderly."*

### **A/Prof Hala Zreiqat**

Biomaterials and Tissue Engineering Research Unit, School of Aerospace, Mechanical and  
University of Sydney

*"Engineering strategies for bone regeneration through microstructural design."*

**A/Prof Xiao-Jun Du**

Baker IDI Heart and Diabetes Institute

“Evaluation of therapeutic interventions by determining regional dysfunction of the aged heart.”

**Dr Michael O’Callaghan**

University of Adelaide and SA Health

“Is PSA velocity is a useful biomarker in older men?”

**LUNG RESEARCH (OTHER THAN CANCER)**

**Dr Malcolm Starkey**

Hunter Medical Research Institute, University of Newcastle

“Identification of novel therapeutic targets for Chronic Obstructive Pulmonary Disease.”

**Prof Hak Kim Chan**

The University of Sydney

“Phase 1 clinical trial: Inhaled rifapentine for rapid treatment of tuberculosis.”

**A/Prof Janette Burgess**

Woolcock Institute of Medical Research

“Using Electric Cell-substrate Impedance to explore the regulation of angiogenesis in asthma.”

**Prof Warwick Britton**

Centenary Institute

“Understanding Cellular Immune Responses to M. tuberculosis Infection.”

**RHEUMATOLOGY RESEARCH**

**Dr Kylie Tucker**

University of Queensland

“Insight into the motor adaptation to musculoskeletal pain.”

**Prof Mark Cooper**

ANZAC Research Institute

“Role of hypothalamic glucocorticoid sensitivity in the development and severity of inflammatory arthritis.”

**VISIONS SCIENCES RESEARCH**

**Prof Paul McMenemy**

Monash University

“The effects of age on the immune system in the eye.”

**Dr Dario Protti**

The University of Sydney

“Understanding retinal ganglion cell function in glaucoma.”

**Prof Stuart Graham**

Macquarie University

“Dynamic Characteristics of Retinal Vessels in Diabetes: In-Vivo Investigation in a Mouse Model.”

**Dr Andrew Woolley**

University of New South Wales

“Imaging cell excitation in the eye: towards effective treatment of eye disorders.”