

FOUNDATION GRANTS – 2009

BRAIN SCIENCE RESEARCH

Dr Claire Goldsbury

Brain & Mind Research Institute, University of Sydney

“Pathogenic mechanisms of neuronal dysfunction and drug discovery for neurodegenerative diseases.”

Professor Malcolm Horne

The Florey Institute of Neuroscience and Mental Health

“Live –Cell Imaging.”

Dr Michael Weible II

Anatomy & Histology, Bosch Institute, University of Sydney

“The 3D visualisation of neural stem cells transplanted into acute spinal cord injuries.”

Dr Lars Ittner

Brain & Mind Research Institute, University of Sydney

“Development of high- throughput screening assays for application in neuroscience and neuropathology.”

Dr Gilles Guillemin

Pharmacology, University of New South Wales

“Tryptophan metabolism in neuroinflammatory and neurodegenerative diseases.”

Dr Kerrie McDonald

Cerebral Tumour Research Group, Kolling Institute, Royal North Shore Hospital

“Development of high- throughput screening assays for application in neuroscience and neuropathology.”

Professor Mark Cook

Neurology & Clinical Neurosciences, St Vincent’s, University of Melbourne

“Using combined EEG/MRI to find seizure generating brain tissue in people with epilepsy.”

Dr Damian Holsinger

Biomedical Sciences, University of Sydney

“Development of a system for the delivery of therapeutics across the blood-brain barrier.”

Dr Joohyung Lee

Human Molecular Genetics, Prince Henry’s Institute, Clayton

“Why are men more susceptible to Parkinson’s Disease: A role for the male specific gene SRY?”

Dr Karen Cullen

Anatomy & Histology, University of Sydney

“Neuronal energy crisis in Alzheimer’s disease: Evidence from human neuropathy and cell culture models.”

DIABETES RESEARCH

Professor Ann Simpson

Medical & Molecular Biosciences, University of Technology Sydney

“Examination of pancreatic transdifferentiation in liver cells.”

Dr Kin-Chuen Leung

Virology Research, Prince of Wales Hospital

“How enteroviruses cause cellular and functional damage in insulin-producing Beta cells.”

Dr Cecile King

Immunology & Inflammation, Garvan Institute

“The role of interleukin-21 in type 1 diabetes.”

Professor Michael Horowitz

Department of Medicine, University of Adelaide

“Measurement of endothelial function and arterial stiffness in diabetes.”

Professor David James; Dr Jacqueline Stockli; Dr Mark Larance

Diabetes & Obesity Research Program, Garvan Institute

“The use of deconvolution microscopy to interrogate insulin action in intact cells.”

Dr Sandra Feeney

Bernard O’Brien Institute, Fitzroy

“Transplantation of pancreatic Beta cells into prevascularised tissue engineering chambers.”

Dr Thomas Loudovaris

St Vincent’s Institute, Fitzroy

“Islet isolation and transplantation for the treatment of type 2 diabetes.”

Associate Professor Stephen Twigg

Endocrinology Unit, Bosch Institute, University of Sydney

“Molecular imager system for the multiuser molecular biology facility.”

GENETIC RESEARCH

Professor Matthew A Brown

Diamantina Institute, Prince Alfred Hospital, Queensland

“DNA capture and elution station for next generation sequencing.”

Professor Ronald Trent

Molecular & Clinical Genetics, Royal Prince Alfred Hospital

"Cascade DNA testing in familial hypercholesterolaemia."

Dr Jon Iredell

Infectious Disease & Microbiology, Millennium Institute, University of Sydney

"Investigation of the genetic basis for microbial infection and resistance."

Dr Angeles Sanchez-Perez

Vascular Immunology, Bosch Institute, University of Sydney

"Pantethine a putative treatment for Cerebral Malaria."

Dr Paul Gregorevic

DiBaker IDI Heart & Diabetes Institute

"Developing high throughput methods for recombinant viral vector production using suspension culture."

Associate Professor Mark Gorrell

Research Office, Centenary Institute

"Fluorescence polarisation reader with high performance luminescence."

GERIATRIC RESEARCH

Professor Chris Murphy

Anatomy & Histology, University of Sydney

"Human prostate disease: markers for disease diagnosis in the ageing organ."

Professor Gordon Lynch

Basic & Clinical Myology, University of Melbourne

"Investigating the potential for erectile dysfunction drugs to enhance the repair of injured skeletal muscles in the elderly."

Dr Sarah Hillmer

Aged Care, Royal North Shore Hospital

"Drug induced liver disease in old age: understanding age-related susceptibility and pathogenesis."

Dr Anne Poljak

Bioanalytical Mass Spectrometry Facility, University of New South Wales

"Detection of early markers of mild cognitive impairment and Alzheimer's Disease using proteomics analyses of plasma and brain tissue."

Dr Ramin Rohanizadeh

Pharmacy, University of Sydney

"Drug-delivery coating for a new generation of orthopaedic implants."

LUNG RESEARCH

Professor Judith Black

Department of Pharmacology, University of Sydney

"Research grade inverted microscope & accessories for use by many research groups."

Professor Warwick Britton

Mycobacterial Research Program, Centenary Institute

"Identification of genetic components essential for Mycobacterium tuberculosis to cause pulmonary disease."

Associate Professor Phil Robinson

Respiratory Medicine, Murdoch Children's Hospital, University of Melbourne

"Practical MRI scanning of the Lung."

Mr Jay Horvat

Infection & Immunity Group, University of Newcastle

"Immunisation against Chlamydia-associated Asthma."

Dr Louise F Roddam

Menzies Research Institute, University of Tasmania

"Mechanism of worsening lung disease in cystic fibrosis."

RHEUMATOLOGY RESEARCH

Dr Hala Zreiqat

Biomaterials & Tissue Engineering Research Unit, University of Sydney

"Histology & immunohistology of large bone and joint tissue specimens."

Professor Mark Hogarth

Inflammatory Diseases, Burnet Institute

"Investigation of the function of immune system genes."

Professor Nick Manolios

Rheumatology, Westmead, University of Sydney

"Liposomal drug delivery for arthritis."

Associate Professor Christopher Little

Bone & Joint Research, Royal North Shore Hospital

"Histology & immunohistology of large bone and joint tissue specimens."

Dr Justine Ellis

Murdoch Children's Research Institute

"Quality control of DNA collected for the Victorian Juvenile Idiopathic Arthritis Bloodbank."

VISION SCIENCE RESEARCH

Dr Anastasia Korlimbinis

Anatomy & Histology, Bosch Institute, University of Sydney

"Stemming vision loss with stem cells."

Dr Chi Luu

CERA, University of Melbourne

"Development and optimisation of stimulation strategy for the bionic eye."

Dr Robyn Jamieson

Eye genetics Children's Hospital, Westmead

"Discover of novel disease genes in eye disorders."