

### Millennium Type 1 Award

Researcher	Institute	State	Project Title
Associate Professor Bruce King	John Hunter Children's Hospital	NSW	Evaluation of an Australian artificial pancreas algorithm for announced and unannounced meals

### Underworks Millennium Type 2 Award

Researcher	Institute	State	Project Title
Dr Gwyneth Rees	Centre for Eye Research Australia	VIC	Personalising eye consultations to improve outcomes in diabetic retinopathy

### ADS Diabetes Australia Research Grant

Researcher	Institute	State	Project Title
Dr Mohammed Bensellam	Garvan Institute of Medical Research	NSW	Generation of islets in adipose tissue by Id3 ablation

### Kellion Diabetes Foundation Research Grant

Researcher	Institute	State	Project Title
Dr Ray Davey	Telethon Kids Institute & University of Western Australia	WA	Glucose requirements to maintain stable blood glucose levels during exercise in type 1 diabetes

### General Grants

Researcher	Institute	State	Project Title
Professor Greg Cooney	Garvan Institute of Medical Research	NSW	Dissociation of obesity and glucose tolerance in a mouse model of excess energy intake
Dr Paul Lee	Garvan Institute of Medical Research	NSW	Bone and brown adipose tissue dual anabolism - a pilot study in prediabetes
Dr Carsten Schmitz-Peiffer	Garvan Institute of Medical Research	NSW	Control of Glucose Homeostasis by Protein Kinase C epsilon Action in Adipose Tissue
Dr Vicky Wang-Wei Tsai	St Vincent's Hospital Sydney	NSW	The TGF-beta superfamily cytokine MIC-1/GDF15 for the treatment of type-2-diabetes
Associate Professor Maria Craig	University of New South Wales	NSW	Characterising enteroviruses that lead to type 1 diabetes
Dr Nigel Turner	University of New South Wales	NSW	Defining sphingolipid mediators of hepatic insulin resistance
Dr Ben Wu	University of New South Wales	NSW	Effects of increasing plasma apolipoprotein A-I levels on pregnancy-induced insulin resistance
Associate Professor Samantha Fraser-Bell	University of Sydney	NSW	Randomised control trial of laser therapy for peripheral retinal ischaemia in diabetic macula oedema
Associate Professor Anandwardhan Hardikar	University of Sydney	NSW	Effects of Metformin Exposure during Pregnancy on the Epigenome
Dr Alison Harmer	University of Sydney	NSW	Exercise impairments and effects of aerobic interval training in young-onset type 2 diabetes
Professor David James	University of Sydney	NSW	Probing the exercise biochemistry landscape for new therapeutic options for treating diabetes
Dr Yan Yan Lam	University of Sydney	NSW	Gut permeability, diet and glucose homeostasis in humans
Professor Carol Pollock	University of Sydney	NSW	Impact of maternal obesity on susceptibility to diabetic nephropathy
Associate Professor Bronwyn O'Brien	University of Technology, Sydney	NSW	A novel peptide isolated from a parasitic worm prevents Type 1 diabetes
Dr Jennifer Cropley	Victor Chang Cardiac Research Institute	NSW	Transgenerational amplification of obesity and diabetes
Professor Josephine Forbes	Mater Research Institute - University of Queensland	QLD	Glucose transport in the diabetic kidney
Professor Robert Gilbert	University of Queensland	QLD	Changes in the glycogen proteome over a diurnal cycle and potential new drug targets
Professor Peter Thorn	University of Queensland	QLD	Refining cell-based therapies for type 1 diabetes

### General Grants

Researcher	Institute	State	Project Title
Dr Morton Burt	Flinders University	SA	Does variability in glucocorticoid homeostasis affect insulin sensitivity and vascular function?
Dr Beverly Muhlhausler	University of Adelaide	SA	Identifying early life epigenetic predictors of type 2 diabetes risk
Professor George Jerums	Austin Hospital Medical Research Foundation	VIC	The origins and function of circulating fibrocytes in patients with diabetic heart disease
Dr Brian Drew	Baker IDI Heart & Diabetes Institute	VIC	Activating Parkin to promote mitochondrial health and prevent skeletal muscle insulin resistance
Professor Mark Febbraio	Baker IDI Heart & Diabetes Institute	VIC	Does the cytokine release inhibitory drug CRID3 improve symptoms of type 2 diabetes?
Dr Stephen Gray	Baker IDI Heart & Diabetes Institute	VIC	The role of Nox5 in diabetic associated vascular disease
Dr Paul Gregorevic	Baker IDI Heart & Diabetes Institute	VIC	Enhancing BMP signalling to prevent and treat type 2 diabetes
Dr Darren Henstridge	Baker IDI Heart & Diabetes Institute	VIC	Can exercise trained gut microbiota be used to treat diet induced obesity and insulin resistance?
Dr Andrew Murphy	Baker IDI Heart & Diabetes Institute	VIC	How does insulin resistance, obesity and type 2 diabetes affect atherosclerotic lesion regression?
Dr Vicki Thallas-Bonke	Baker IDI Heart & Diabetes Institute	VIC	Central Role of Nox4 in Mediating Diabetic Nephropathy via a PKC Dependent Pathway
Dr Lyndell Lim	Centre for Eye Research Australia	VIC	Determining the best treatment of Diabetic Macular Oedema at the time of Cataract surgery
Dr Clinton Bruce	Deakin University	VIC	Does mitochondrial dysfunction impair muscle glucose metabolism?
Dr Greg Kowalski	Deakin University	VIC	Targeting hepatic energy expenditure to improve glycaemic control
Dr Sean McGee	Deakin University	VIC	Targeting protein kinase D to treat diabetic cardiomyopathy
Dr Ruby Law	Monash University	VIC	The Impact of Hyperglycaemia on Plasminogen Structure and Function in Type 2 Diabetes
Associate Professor Sharon Ricardo	Monash University	VIC	Using Genetically Engineered Mesenchymal Stem Cells to Combat Diabetic Kidney Disease
Professor Tony Tiganis	Monash University	VIC	Turning Up the Heat on Diabetes; The Role of AgRP Neurons in WAT 'Browning'
Dr Luise Cullen-McEwen	Monash University	VIC	Defining the effects of diabetes during pregnancy on development of the human kidney
Associate Professor Duncan Campbell	St Vincent's Institute	VIC	Investigation of HbA1c as a risk marker for left ventricular dysfunction and cardiovascular events
Dr Esteban Gurzov	St Vincent's Institute	VIC	Identification of novel biomarkers for in vivo imaging of pancreatic $\beta$ -cells
Professor Thomas Kay	St Vincent's Institute	VIC	The effect of immune tolerance to proinsulin at different stages of autoimmune diabetes
Dr Andrew Sutherland	St Vincent's Institute	VIC	Therapeutic inhibition of IL-23 in type 1 diabetes
Dr Benjamin Lamont	University of Melbourne	VIC	The mitochondrial unfolded protein response and its role in preserving normal insulin secretion
Dr Padma Murthi	University of Melbourne	VIC	Investigating the role of altered proteoglycan function in diabetic placental vasculopathy
Dr Cyril Mamotte	Curtin University	WA	Deleterious effects of cholesterol lowering medications in the aetiology and treatment of diabetes
Dr Elizabeth Davis	Princess Margaret Hospital & University of Western Australia	WA	Dietary proteins contribution to the insulin dose required to maintain post-prandial euglycaemia

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Dr Martin de Bock	Princess Margaret Hospital & University of Western Australia	WA	Performance of an overnight artificial pancreas system under hypoglycaemic scenarios
Associate Professor Aleksandra Filipovska	University of Western Australia	WA	The role of mitochondrial biogenesis in insulin resistance
Professor Paul Fournier	University of Western Australia	WA	Effect of exercise modality and carbohydrate intake on glycaemic excursions in type 1 diabetes