

## **2009 Diabetes Australia Research Trust**

### **Viertel Award 2009/2010**

Dr Kyle Hoehn  
Garvan Institute NSW  
Type 2  
Investigating the Etiology of Insulin Resistance.

### **Millennium Grants 2009/2010**

A/Prof Assam El-Osta  
Baker IDI Heart and Diabetes Institute VIC  
Type 1  
Mapping of human hyperglycaemia induced memory in Type 1 diabetes

Prof Mark Febbraio  
Baker IDI Heart and Diabetes Institute VIC  
Type 2  
Identification of novel myokines as potential therapeutic targets for Type 2 diabetes

### **General Grants**

A/Prof Terri Allen  
Baker IDI Heart and Diabetes Institute Vic  
Type 1/Complications  
Role of Urotensin II in diabetic atherosclerosis: basic and clinical studies.

Dr Sofianos Andrikopoulos  
University of Melbourne Vic  
Type 2  
Investigating the novel roles of HERP in Type 2 diabetes.

A/Prof Emilio Badoer  
RMIT University VIC  
Type 2  
Effects of obesity on the brain

Dr Elizabeth Beckett  
Flinders University SA  
Type 1/Type 2/Complications/Other  
Role of interstitial cells of Cajal (ICCs) in gastric dysfunction induced by acute blood glucose fluctuations

A/ Prof Steve Boutcher  
University of NSW  
Type 2  
The effect of high intensity intermittent exercise on fat loss, insulin resistance, and vascular function in hyperinsulinaemic men

Dr. Grant Brinkworth

CSIRO SA

Type 2

High protein weight loss diet and resistance exercise for improving body composition and metabolic health in type 2 diabetes

Dr Ashley Buckle

Monash University Vic

Type 1

Creating molecules for the improved pre-clinical screening for Type 1 Diabetes: epitope engineering of the autoantigen Glutamic Acid Decarboxylase.

Dr Susan Byrne

University of Western Australia WA

Type 2

The effect of CBT for obesity on weight loss, dietary patterns and glycaemic control in individuals with type 2 diabetes

A/Prof Duncan Campbell

St Vincents Institute VIC

Type 2

Cellular and molecular determinants of heart disease in metabolic syndrome and type 2 diabetes in humans.

Dr Hui Chen

University of NSW

Type 2

Activation of brain glucose sensing mTOR pathway to improve glucose tolerance and reduce adiposity in offspring from obese dams

A/Prof Gregory

Cooney Garvan Institute NSW

Type 2

The role of inducible nitric oxide synthase (iNOS) and nitrosative protein modifications in the development of insulin resistance and metabolic inflexibility.

Prof. Michael Davies

The Heart Research Institute NSW

Complications

Role of hyperglycaemia in altered cellular handling of modified proteins

Prof Peter Ebeling

University of Melbourne VIC

Type 2

Can calcium and vitamin D reduce diabetes and cardiovascular risk in overweight people?

A/Prof Assam El-Osta  
Baker IDI Heart and Diabetes Institute Vic  
Complications Persisting gene activating events can be attributed to changes in epigenetic information.

Prof Mark Febbraio  
Baker IDI Heart and Diabetes Institute Vic  
Type 2  
Does macrophage interleukin-10 expression protect against obesity induced insulin resistance

Dr Erica Fletcher  
University of Melbourne VIC  
Type 1/Complications  
Inflammatory changes in the retina during diabetes.

Prof Benjamin Freeman  
ANZAC Research Institute NSW  
Type 1/Type 2/Complications  
Proinflammatory activation of endothelial cells by serum amyloid in diabetes

Dr Heather Gilbertson  
Royal Children's Hospital Vic  
Type 1  
Use of glycaemic index knowledge to improve postprandial glycaemia in paediatric patients on insulin pump therapy.

Dr Jenny Gunton  
Garvan Institute NSW  
Type 2/Other  
Hypothalamic HIF-1a regulates weight gain and obesity

Prof. Mark Hargreaves  
University of Melbourne VIC  
Type 2  
Exercise training in insulin resistance: role of HSP70 and HDAC5

Dr Neil Hime  
University of Sydney NSW  
Type 2  
The role of heme oxygenase-1 in diabetes

Prof David Ernest James  
Garvan Institute NSW  
Type 2  
The identification of a new action of insulin involving mRNA decay and translation repression.

Professor David Kaye  
Baker IDI Heart and Diabetes Institute Vic  
Complications  
Mechanism and treatment of cardiac fibrosis in diabetes.

A/Prof Darren Kelly  
University of Melbourne VIC  
Complications  
FT011, directly targeting myocardial fibrosis will improve heart function in experimental model of diabetic cardiomyopathy

Dr Graeme Lancaster  
Baker IDI Heart and Diabetes Institute VIC  
Type 2  
The role of protein kinase R (PKR) in diet-induced inflammation and insulin resistance

Dr. Martha Lappas  
University of Melbourne VIC  
Other  
The role of fatty acids in the pathophysiology of diabetes in pregnancy

Dr. Sue Mei Lau  
Garvan Institute NSW  
Other  
Effects of lactogenic hormones on  $\beta$ -cell function and proliferation in pregnancy

Dr SueLynn Lau  
Garvan Institute NSW  
Type 2  
Vitamin D and Diabetes.

Dr Sarah McNaughton  
Deakin University VIC  
Other  
Understanding personal, social and environmental influences on nutrition and physical activity behaviours among older adults

Dr Antonia Miller  
Monash University Vic  
Type 1/Complications  
Glyoxalase I and diabetic retinopathy

Dr. Karen Moritz  
University of Queensland QLD  
Other  
Does moderate prenatal alcohol exposure result in offspring with metabolic disease?

Prof George Muscat

University of Queensland Qld

Type 2

The orphan nuclear hormone receptor, RORalpha, regulates glucose tolerance in skeletal muscle.

Dr Jun Okabe

Baker IDI Heart and Diabetes Institute Vic

Complications

Epigenetic persistence and hyperglycaemic memory of embryonic stem cells.

Dr Narin Osman

Baker IDI Heart and Diabetes Institute VIC

Complications

The impact of glucose on p38 MAP kinase mediated glycosaminoglycan synthesis in the development of early atherosclerosis.

Dr Vlado Perkovic

The George Institute NSW

Type 2/Complications

The effect of glucose control and glucose lowering therapies in chronic kidney disease.

Dr Anne Therese Reutens

Baker IDI Heart and Diabetes Institute Vic

Type 2

The effects of aerobic and resistance exercise training on vascular endothelial function in people with type 2 diabetes mellitus.

Dr Rebecca Ritchie

Baker IDI Heart and Diabetes Institute

Type 1/Complications

Targeting protective cardiac signalling rescues the diabetic heart from cardiomyopathy.

Dr. Greg Steinberg

St Vincent's Institute

Type 2/Complications

Adipose Tissue SOCS3: Role in Regulation of Insulin Sensitivity in Obesity

Dr Ken Walder

Deakin University VIC

Type 2

Antidiabetic effects of a new secreted protein associated with type 2 diabetes

A/Prof Mathew Watt

Monash University VIC

Type 2

Adipocyte dysfunction linking obesity to insulin resistance: the role LIMK2

Dr Jon Whitehead

University of Queensland Qld

Type 2

Establishing the role of Vitamin C in adiponectin multimerisation: A novel strategy for improving insulin sensitivity by increasing HMW adiponectin.

Dr H. Charlotte Widberg

University of Queensland Qld

Type 2

Characterisation of novel adipogenic mediators-down-stream of FGF-1-in human preadipocytes.

Dr Paul Witting

ANZAC Research Institute NSW

Type 1/Type 2

The acute phase protein serum amyloid A promotes endothelial dysfunction in diabetics.