

DIABETES AUSTRALIA RESEARCH TRUST (DART) 2006 AWARDS

DART/NATIONAL HEALTH & MEDICAL RESEARCH COUNCIL FIVE YEAR CAREER DEVELOPMENT AWARD - 2006-2009

Dr Merlin Thomas

(Baker Heart Research Institute, Victoria)

Circulating AGEs; markers and mediators of renal injury in diabetes

DART MILLENNIUM AWARD 2006-2007

Associate Professor Andrew Lew

(Walter & Eliza Hall Institute of Medical Research, Victoria)

Development of a novel immune agent to cure established diabetes

DART/ANZ WORKPLACE GIVING PROGRAM

Dr Dorothy Mackerras

(Menzies School of Health Research, Northern Territory)

Diabetes risk markers in Wave 3 of the Aboriginal Birth Cohort Study

DART/APEX FOUNDATION

Associate Professor Lea Delbridge

(University of Melbourne, Victoria)

Dietary fructose and diabetes: double jeopardy for the heart.

Professor David James

(Garvan Institute of Medical Research, New South Wales)

Molecular Mechanisms of Insulin Resistance.

DART/AUSTRALIAN DIABETES SOCIETY

Dr Anthony Russell

(University of Queensland)

The Regulation and Action of Placental Growth Hormone in Diabetic Pregnancies

DART/DIABETES RESEARCH FOUNDATION OF WESTERN AUSTRALIA

Professor Timothy Davis

(University of Western Australia)

Characterisation of cardiac function and perfusion abnormalities using magnetic resonance imaging in type 2 Diabetic patients with silent coronary artery disease

DART/KELLION RESEARCH FOUNDATION

Associate Professor Jennifer Wilkinson-Berka

(University of Melbourne, Victoria)

Erythropoietin and Diabetic Retinopathy

DART/UNDERWORKS PTY LTD

Dr Barbara Fam

(University of Melbourne, Victoria)

Improvement in hepatic insulin sensitivity in liver specific SOCS knockout mice

REMAINING DART GRANTS 2006

INVESTIGATOR	INSTITUTION	SHORT TITLE
BACH Leon	Monash University, VIC	<i>The effects of ezrin on activation of NADPH oxidase by advanced glycation end-products (AGEs) in proximal tubule cells.</i>
CHISHOLM Donald	Garvan Institute, NSW	<i>Determining the importance of visceral fat in the development of insulin resistance using an adipose tissue transplantation model.</i>
COLAGIURI Stephen	Prince of Wales Hospital, NSW	<i>An Economic Analysis of Diabetes and Impaired Glucose Metabolism in the AusDiab 2004-5 Follow-Up Study.</i>
DALY Roger	Garvan Institute, NSW	<i>Determination of how the adaptor protein Grb14 regulates insulin signaling.</i>
DAVIES Michael	Heart Research Institute, NSW	<i>Role of glycation reactions in low-density lipoprotein retention in the artery wall: a potential contributing factor in accelerated atherosclerosis in people with diabetes.</i>
DROMEY James	WEHI, VIC	<i>Identification of autoantigen-specific regulatory T cells in autoimmune diabetes.</i>
FEBBRAIO Mark	RMIT University, VIC	<i>Heat shock protein 72: a target therapy for type 2 diabetes.</i>
GUNTON Jenny	Garvan Institute, NSW	<i>Hypoxia-inducible factor-1α (HIF1α) and B-cell function in Min6 cells and B-cell specific knockout mice.</i>
HILL Michael	University of NSW	<i>Effect of Diabetes on Endothelium-White Cell Interactions: Atomic force microscopy studies.</i>
JANDELEIT-DAHM Karin	Baker Heart Research Institute, VIC	<i>The role of vascular NADPH oxidases in diabetes associated atherosclerosis.</i>
KELLY Darren	University of Melbourne, VIC	<i>Mitogen Activated Protein Kinase (MAPK) and the progression of diabetic nephropathy.</i>
KENNAWAY David	University of Adelaide, SA	<i>Metabolic consequences of circadian rhythm disruption in an animal model of shiftwork.</i>
KHACHIGIAN Levon	University of NSW	<i>Strategies targeting c-Jun as novel inhibitors of retinopathy.</i>

KRAEGEN Edward	Garvan Institute, NSW	<i>Mechanism of Enhancement of Liver Insulin Action by Berberine, a Compound used in Traditional Chinese Medicine.</i>
KRIKETOS Adamandia	University of Melbourne, VIC	<i>Investigation of the importance of first-phase insulin secretion on glucose tolerance and insulin resistance.</i>
LANCASTER Graeme	RMIT, VIC	<i>Understanding the molecular control of obesity-induced hepatic NF-κB activation: The role of the innate immune system.</i>
LAPPAS Martha	University of Melbourne, VIC	<i>The effect of Gestational Diabetes Mellitus on the protein profile of human placenta, adipose tissue and skeletal muscle.</i>
LOWE Harry	University of Sydney, NSW	<i>Design and evaluation of a new model of in-stent restenosis in diabetes.</i>
MANNERING Stuart	WEHI, VIC	<i>How does treatment with intranasal insulin vaccine affect the function of islet autoantigen-specific T cells in adults with autoimmune diabetes?</i>
MARTIN Sally	University of Queensland	<i>Identification of proteins involved in the regulation of lipolysis in adipocytes.</i>
MCCONELL Glenn	University of Melbourne, VIC	<i>Does an acute bout of exercise activate skeletal muscle mitochondrial biogenesis and GLUT-4 expression normally in people with type 2 diabetes?</i>
MORRIS Margaret	University of NSW	<i>How is activation of counter-regulation after hypoglycemia defective in the diabetic brain?</i>
O'BRIEN Richard	Monash Medical Centre, VIC	<i>Impact of advanced glycation on reverse cholesterol transport.</i>
OLDENBURG Brian	QLD University of Technology	<i>An automated telephone system to improve diabetes self-care behaviours.</i>
OWENS Julie	University of Adelaide, SA	<i>Maternal calcium supplementation and prevention of diabetes in offspring born small.</i>
PANCHAPAKESAN Usha	Kolling Institute, NSW	<i>The Role of Endothelial Stem Cells and Erythropoietin in Vascular Disease in Patients with Diabetes Mellitus and/ or Chronic Kidney Disease.</i>
PRINS John	Princess Alexandra Hospital, QLD	<i>Mechanisms of corticosteroid-induced insulin resistance.</i>
PROIETTO Joseph	University of Melbourne, VIC	<i>Study of the mechanisms of obesity, and insulin resistance in transgenic rats overexpressing PEPCK.</i>
RITCHIE Rebecca	Baker Heart Research Institute, VIC	<i>Preserving function of cardiac myocytes in type 2 diabetes: impact of reactive oxygen species.</i>
ROBINSON Andrea	Monash University, VIC	<i>Defining the structure and function relationship of insulin using novel dicarba-insulin analogues.</i>
SCHMITZ-PEIFFER Carsten	Garvan Institute, NSW	<i>Regulation of Insulin Receptor Endocytosis by Protein Kinase C Epsilon.</i>
SIMEONOVIC Charmaine	JCSMR, ANU, ACT	<i>The role of matrix metalloproteinases in the development of destructive autoimmunity and clinical diabetes in NOD mice.</i>
SIMPSON Ann	University of Technology, NSW	<i>Immunological characterization and encapsulation of a bio-engineered insulin-secreting liver cell.</i>
STEINBERG Gregory	St Vincent's Institute, VIC	<i>Leptin Resistance and skeletal muscle AMP-kinase signaling in obesity and diabetes.</i>
STRAZNICKY Nora	Baker Heart Research Institute, VIC	<i>Neural mechanisms predisposing to cardiovascular risk in the metabolic syndrome: benefits of dietary weight loss, weight loss maintenance and aerobic exercise.</i>
SULAIMAN Nabil	University of Melbourne, VIC	<i>A peer led self-management diabetes prevention program for Turkish and Arabic speaking communities.</i>
THOMAS Helen	St Vincent's Institute, VIC	<i>Genetic analysis of apoptotic changes in pancreatic beta cells induced by CD4⁺T cells in a mouse model of type 1 diabetes.</i>

THOMPSON Philip	Monash University, VIC	<i>Inhibition of cAMP Phosphodiesterase 3B – a novel therapeutic approach to type 11 diabetes.</i>
TIGANIS Tony	Monash University, VIC	<i>TCPTP & the regulation of insulin receptor signaling in the liver, muscle and fat.</i>
TURNER Nigel	Garvan Institute, NSW	<i>Is lipid-induced insulin resistance associated with defects in skeletal muscle mitochondria?</i>
UPTON Zee	QLD University of Technology	<i>Development of a porcine model of diabetic ulcers to facilitate pre-clinical studies evaluating new wound healing therapies.</i>
WARD Glenn	St Vincent's Hospital, VIC	<i>Blocking adrenaline-induced hyperglycaemia in diabetes: A Physiological and Metabonomic study.</i>
WENTWORTH John	WEHI, VIC	<i>Investigation of the role of adipose tissue macrophages and peripheral blood monocytes in early metabolic syndrome.</i>
YOUNG Anne	University of Newcastle, NSW	<i>Health care for women with diabetes living in rural areas: a longitudinal study of access to care and health outcomes.</i>

Major sponsors of diabetes research: -

Apex Foundation, Australian Diabetes Society, Australian Diabetes Educators Association, ANZ Workplace Giving Program, Diabetes Research Foundation of WA, Kellion Foundation, Maple Brown Charitable Foundation, Pace Foundation, NHMRC, Royal Australasian College of Physicians, Underworks – All Day Socks, Diabetes Australia State and Territory Associations across Australia, as well as individual donors.