

DART AWARDS 2007

DART / NATIONAL HEALTH & MEDICAL RESEARCH COUNCIL FIVE YEAR CAREER DEVELOPMENT AWARD 2007 – 2011

Dr Jenny Gunton

(Garvan Institute, NSW)

The effects of over-expression of ARNT on beta-cell function and prevention of diabetes.

DART MILLENNIUM AWARD TYPE 1 2007/08

Dr Josephine Forbes

(Baker Heart Research Institute, VIC)

Cytosolic oxidative disturbances as a source of mitochondrial dysfunction in diabetic nephropathy.

DART MILLENNIUM AWARD TYPE 2 2007/08

Dr Barbora de Courten

(Baker Heart Research Institute, VIC)

Will reduction of dietary advanced glycation end-products reduce chronic low-grade inflammation and improve insulin sensitivity in obese humans?

DART / NATIONAL HEART FOUNDATION 2007/2008

Dr Kevin Woollard

(Baker Heart Research Institute, VIC)

The role of p-selection in the pathophysiology of peripheral arterial occlusive disease, diabetes and hypertension.

DART / ROYAL AUSTRALASIAN COLLEGE OF PHYSICIANS

Dr Alexia Pena

(Children, Youth and Women's Health Service, SA)

Peripubertal change in vascular function in children with type 1 diabetes and obesity.

DART / APEX FOUNDATION

A/Prof Katharine Steinbeck

(Royal Prince Alfred Hospital, NSW)

Transition from paediatric to adult in type 1 diabetes: factors associated with successful transfer and early engagement.

Dr Lexin Wang

(Charles Sturt University, NSW)

Impact of type 2 diabetes on clinical outcomes of congestive heart in a rural community.

AUSTRALIAN DIABETES SOCIETY

Dr Sue Mei Lau

(Garvan Institute, NSW)

Maternal diabetes and obesity in pregnancy: effects on long-term offspring phenotype and the expression of key metabolic genes.

DART / DIABETES RESEARCH FOUNDATION OF WESTERN AUSTRALIA

Prof Peter Leedman

(Western Australian Institute for Medical Research, WA)

Understanding the functional role of a novel nuclear receptor co-regulator in lipid metabolism and insulin resistance.

DART / KELLION RESEARCH FOUNDATION

A/Prof Jennifer Couper

(University of Adelaide, SA)

Peripubertal change in vascular function in children with type 1 diabetes and obesity.

DART / UNDERWORKS PTY LTD

Dr Joshua Burns

(Westmead Hospital, NSW)

Reducing foot pain and plantar pressure to prevent ulceration and amputation in the neuroischaemic diabetic foot: a randomised controlled trial.

REMAINING DART GRANTS 2007

ANDRIKOPOULOS Sofianos (University of Melbourne, VIC)
Genetic analysis of reduced insulin secretion in diabetes susceptible mice.

BRUCE Clinton
(Garvan Institute, NSW)
The role of fatty acid oxidation in regulating skeletal muscle insulin sensitivity.

CALKIN Anna
(Baker Institute, VIC)
The role of Urotensin II in diabetic nephropathy.

COWELL Christopher
(Children's Hospital at Westmead, NSW)
Inflammatory markers in children and adolescents with obesity and/or insulin resistance.

DAVIES Michael
(Heart Research Institute, NSW)
The effects of concurrent hyperglycaemia and glycated lipoprotein exposure on human macrophage cholesterol metabolism.

EISENBRUCH Maurice
(Victoria University, VIC)
Cultural competence in diabetes primary care: a study of general practice settings in western Melbourne.

FAM Barbara
(University of Melbourne, VIC)
An investigation of mechanisms involved in weight regain after weight loss.

FEBBRAIO Mark
(Baker Institute, VIC)
Fatty acid-induced inflammation in the macrophage: a key mediator of insulin resistance?

FLETCHER Erica
(University of Melbourne, VIC)
The role of astrocytes in mediating retinal vascular changes early in the course of diabetes.

GATFORD Kathryn
(University of Adelaide, SA)
Does restriction of fetal growth impair plasticity as well as function of the beta-cell after birth?

HARGREAVES Mark
(University of Melbourne, VIC) Exercise training, adipose tissue GLUT4 and adipokines in type 2 diabetes.

HOROWITZ Michael
(Royal Adelaide Hospital, SA)
Acute and chronic effects of a high and low fat 'preloads' on gastric emptying, glycaemia, gastrointestinal hormones and energy intake in type 2 diabetes: a preliminary study.

HOWLETT Kirsten
(Deakin University, VIC)
A novel mechanism by which AMP activated protein kinase (AMPK) may improve insulin action.

HUGHES William
(Garvan Institute, NSW)
The role of the membrane phospholipids phosphatidylinositol 3 phosphate in regulating insulin signaling and stimulated glucose transport.

JAMES David
(Garvan Institute, NSW)
Use of a cell-based assay to identify novel insulin sensitising agents.

JANDELEIT-DAHM Karin
(Baker Institute, VIC)
Role of the endothelin system in diabetes related atherosclerosis and nephropathy.

JORGENSEN Sebastian
(St Vincent's Institute, VIC)
The role of resistin in the regulation of insulin sensitivity.

KELLY Darren
(University of Melbourne, VIC)
The role of Urotensin II inhibition in experimental progressive diabetic nephropathy.

KHACHIGIAN Levon
(University of NSW)
Egr-1 knockdown strategies as novel inhibitors of retinopathy.

KRIKETOS Adamandia
(University of Melbourne, VIC)
Investigating the links between obesity, insulin resistance and dyslipidaemia.

LANCASTER Graeme
(Baker Institute, VIC)
Does the IKK play a role in the physiological regulation of insulin signaling?

LIEW Gerald
(University of Sydney, NSW)
Retinal vasculature structure and the risk of diabetes and pre-diabetes.

LOUGHLIN Wendy
(Griffith University, QLD)
Glycogen phosphorylase as an important molecular target for type-2 diabetes: evaluation of novel small molecules as potential inhibitors.

LOWE Harry
(ANZAC Research Institute, NSW)
Gene targeting to treat heart attack in type 2 diabetes.

MACISAAC Richard
(University of Melbourne, VIC)
Validating estimates of Glomerular Filtration Rate (GFR) in Torres Strait Island people with diabetes.

MAPLE-BROWN Louise
(Menzies School of Health Research, NT)
A randomised trial of rosiglitazone versus metformin monotherapy in Aborigines with type 2 diabetes: effects on metabolic and cardiovascular parameters.

MARTIN Lisa
(Monash University, VIC)
Long Acting Insulin – improving insulin stability and activity by replacement of disulfide bonds.

MITCHELL Christina
(Monash University, VIC)
The role of phosphatidylinositol 3 phosphate in GLUT4 translocation.

O'MOORE-SULLIVAN Trisha (University of Queensland, QLD) Investigation of the relationship between the IRS-1 G972 mutation and cardiovascular risk in obesity and type 2 diabetes.

PROIETTO Joseph
(University of Melbourne, VIC)
Investigation of the impact of a muscle glucose storage defect on glucose metabolism.

RICHARDS Ayanthi
(University of Queensland, QLD)
Regulation of adiponectin bioactivity by novel post-translational modifications.

RODDA Christine
(Monash Medical Centre, VIC)
Re-engaging “lost to follow up” adolescents with type 1 diabetes managed in a tertiary setting.

ROGERS Suzanne
(University of Melbourne, VIC)
Mechanisms that link type 2 diabetes to increased cancer risk.

SAMARAS Katherine
(Garvan Institute, NSW)
Type 2 diabetes in HIV lipodystrophy: 10 year incidence and the predictive value of baseline insulin resistance, insulin secretion, fat mass, lipids and inflammatory and adipocyte cytokines.

SAMOCHA-BONET Dorit
(Garvan Institute, NSW)
The involvement of oxidation of blood lipids in the harmful effect of high carbohydrate-high fat meals in subjects genetically prone to develop type 2 diabetes.

SANDRIN Mauro
(University of Melbourne, VIC)
A pre-clinical xenotransplantation model of insulin dependent diabetes.

SHAW James
(Baker Heart Research Institute, VIC)
Do coronary plaque biomechanical differences between diabetic and non-diabetic subjects relate to differences in plaque morphology and measures of neovascularisation?

SHAW Jonathan
(International Diabetes Institute, VIC)
Re-assessing the diagnostic criteria for diabetes: association of retinopathy with glycaemia.

STEINBERG Gregory
(Garvan Institute, NSW)
Hypothalamic AMP activated protein kinase in obesity and type 2 diabetes.

STRAZNICKY Nora
(Baker Institute, VIC)
Sympathetic over-activity in the metabolic syndrome: benefits of lifestyle interventions.

SULLIVAN Clair
(University of Queensland, QLD)
Clotting in diabetic subjects: role of adiponectin.

THOMAS Shane
(University of NSW, NSW)
Oxidative stress and endothelial dysfunction in diabetes.

TIGANIS Tony
(Monash University, VIC)
Regulation of insulin signaling and glucose homeostasis by glutathione peroxidase-1.

RIGGLE Christopher
(RMIT University, VIC)
Studies of human microvascular function in type 2 diabetes.

VAN REYK David
(University of Technology, NSW)
Investigations of the anti-atherogenic
properties of a histidine-containing
dipeptide, carnosine, in a murine model
of diabetes-accelerated atherosclerosis.

WARD Glenn
(St Vincent's Hospital, VIC)
Blocking adrenaline-induced
hyperglycaemia in diabetes: a
physiological and metabonomic study.

WATT Matthew
(St Vincent's Institute, VIC)
Ciliary neurotrophic factor and adipocyte
function: protective role in type 2
diabetes.

WHITEHEAD Jon
(Centre for Diabetes & Endocrine
Research, QLD)
Regulation of insulin action at the level
of insulin receptor substrate-1.

WLODEK Mary
(University of Melbourne, VIC)
Being born small programs gestational
diabetes and poor milk quality:
mechanisms for the transmission of
diabetes to the next generation.

YE Jiming
(Garvan Institute, NSW)
Novel anti-diabetic agents activating
AMP activated protein kinase (AMPK).