



TRANSLATIONAL RESEARCH INSTITUTE
AUSTRALIA

2013 ANNUAL REPORT

Translational Research Institute



The Translational Research Institute (TRI) Australia, is a biomedical research institute with a focus on translating medical discoveries into diagnostic tools, treatments and therapies. The first researchers moved into the building in October 2012 with the remaining groups in by January 2013.

TRI is home to around 800 researchers, clinicians and support staff from the University of Queensland's Diamantina Institute, School of Medicine and Mater Research; Queensland University of Technology Institute of Health and Biomedical Innovation; and the Princess Alexandra Hospital's Centres for Health Research.



TRANSLATIONAL RESEARCH INSTITUTE
AUSTRALIA

Partners:



Queensland
Government

Princess Alexandra
Hospital
BRISBANE • AUSTRALIA



ihbi

Institute of Health and Biomedical Innovation



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

DIAMANTINA
INSTITUTE



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

SCHOOL OF
MEDICINE



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ISBN 978-0-9942212-0-9

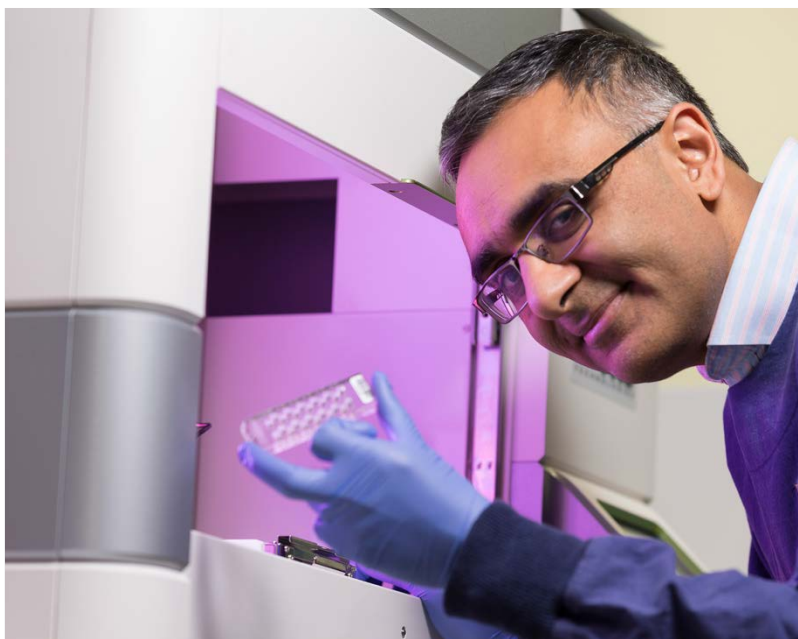
TRI Vision

By 2020, TRI will be recognised globally as a leader in translational health and medical research, adding to the capabilities and enhancing the reputation of the partner organisations.

TRI Goal

TRI will be recognised globally by:

- achievement of improved health outcomes through excellent and innovative translational research
- delivery of a distinctive educational outcome through training future leaders in translational research
- building of collaborative research partnerships that leverage the strengths of the partner organisations
- maximisation of productivity in research and business operations
- optimisation of external partnerships to facilitate community engagement.



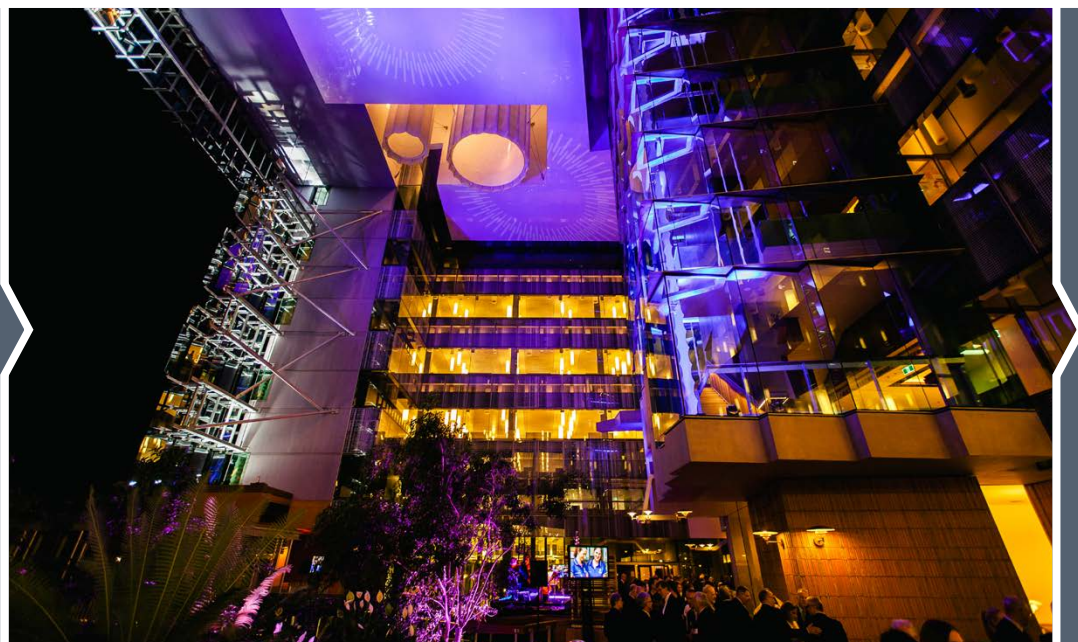
MESSAGE FROM THE TRI CHAIR AND THE CEO

The opening of the Translational Research Institute marked a significant milestone in the history of medical research in Australia.

TRI was the result of the vision of a number of researchers in Queensland over the course of the last 15 years.

People were sceptical about combining the research capabilities and resources of previously independent institutes. However, we were able to demonstrate the advantages of a collective expertise and the efficiencies of scale and access to world standard laboratories and technologies that could be achieved. Added to these advantages was the chance to co-locate with the first major biopharmaceutical manufacturing facility in Australia in close proximity to the major teaching hospital with leading clinician researchers.

Charles 'Chuck' Feeney, founder of Atlantic Philanthropies, was the catalyst that made TRI possible. He donated \$50 million on the proviso that it was matched. This funding was matched by the Australian and Queensland governments, the Queensland University of Technology and The University of Queensland.



TRI was built with interactions in mind. The unique design of the building inspires creativity. There are vistas to the city and mountains, a landscaped atrium, and rooms and breakout areas where people can talk and exchange ideas. This sharing of knowledge and ideas leads to collaborations and innovation and assists researchers on the pathway to translational research.

This first year of operation has set the foundation for a new research institute focused on translating medical discoveries into practical benefits for the community.

Dr David Watson
Chair

Professor Ian Frazer
CEO and Director of Research



KEY ACHIEVEMENTS

Funding

- The Australian Prostate Cancer Research Centre - Queensland received \$6.2 million funding from the Federal Government to continue and expand the collaborative research with other prostate cancer researchers.
- In August, NHMRC awarded \$2.5 million to establish a new Centre for Research Excellence (CRE) in Telehealth led by Professor Len Gray. This was assisted by \$4.5 million from the Department of Health NBN-Enabled Telehealth Pilots Program.
- The Diamantina Institute secured a \$2 million grant from the Australian Cancer Research Foundation for a new cancer research centre. The Diamantina Individualised Oncolgy Care Centre will provide near-patient cancer research using state-of-the-art technology.
- The Centre for Kidney Disease Research received a prestigious Group of Eight University Fellowship award to carry out a proteomics study into discovery and validation of biomarkers for chronic kidney disease.



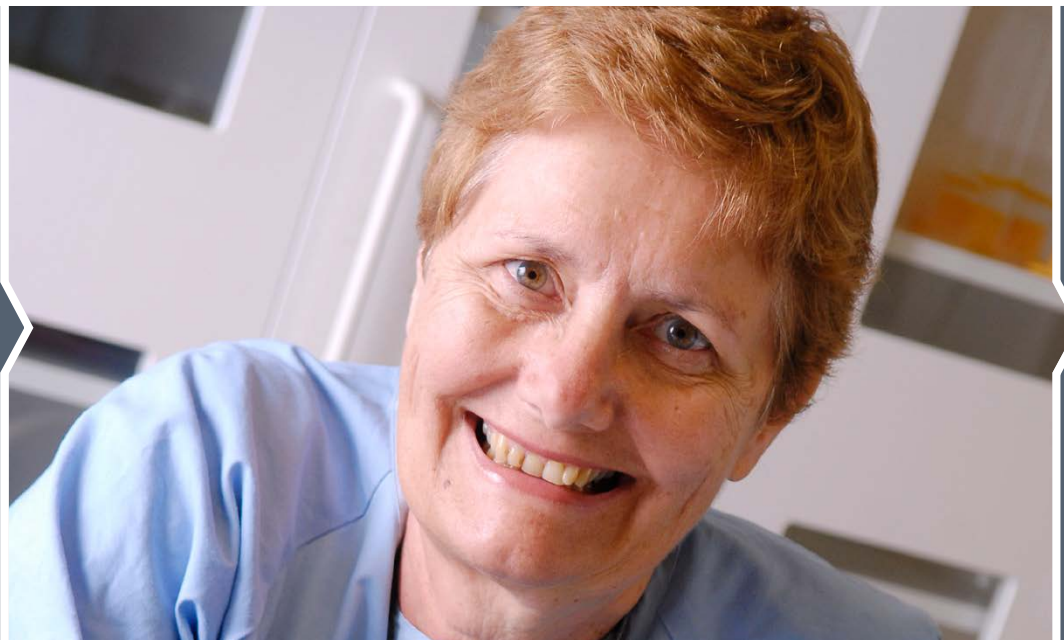
Collaborations

- A new immunotherapy treatment for rheumatoid arthritis, developed by Professor Ranjeny Thomas, moved closer to reality with collaboration between Dendright Pty Ltd and Johnson and Johnson pharmaceutical firm Janssen Biotech Inc.
- Global pharmaceutical company, LEO Pharma, backs first study of its kind investigating the genetic changes that lead to Squamous Cell Carcinoma
- An international collaboration has led to a new method of genetically screening tens of thousands of biological traits for potential causal relationships with diseases such as type 2 diabetes and coronary heart disease.
- Professor Gerald Holtmann lead a team that developed an innovative Brisbane Aseptic Biopsy Device in collaboration with MTW Enoskopie Manufaktur, Wesel, Germany.
- In 2013, the Surgical Oncology Unit participated in the Worldwide Esophageal Cancer Collaboration which aimed to overcome problems of rarity of this cancer by assembling a large multi-institutional international database of esophageal cancer patients, patient and tumor characteristics, and survival of patients undergoing esophagectomy alone.



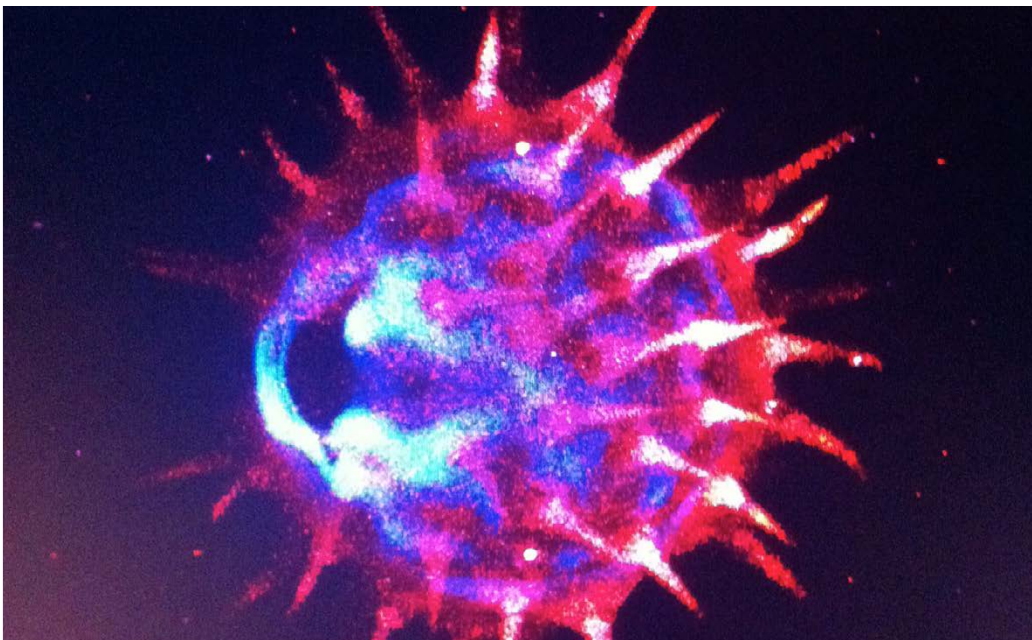
Awards

- Queensland Government 2013 Premier's Science Fellowship awarded to Professor Matthew Brown
- Professor Selena Bartlett was awarded the Women in Technology (WiT) Biotech Outstanding Achievement Award and the Biotech Research Award, for her work identifying the effects of binge drinking on the brain during adolescence.
- Professor Judith Clements was awarded the QUT title of Distinguished Professor – one of only four in the University – for her research activities.
- Dr Eliza Whiteside was honoured with a Queensland Tall Poppy Award, for her tireless efforts both in research and advocacy for breast cancer.
- The Upper Gastro-intestinal and Soft Tissue Unit won the UQMS Award for Excellence in Clinical Teaching in 2013.



Clinical trials

- The emphasis of the Haematology Department's clinical trials program shifted towards industry sponsored trials, particularly early phase clinical trials. There were 68 clinical trials/research projects underway in 2013.
- The Lung and Allergy Research Centre defined immune responses to the common cold virus and why this is abnormal in asthma, and outlined how much sub-tropical grass pollens contribute to the burden of allergic disease.
- The Queensland Melanoma Project celebrated its 50th Anniversary in 2013. A strong focus in 2013 was the collection of tissue samples for the melanoma tissue bank with continued collection of clinical information from patients with high risk melanoma.



Education

- The School of Medicine relocated its PAH-based teaching of medical, nursing and midwifery students into the new purpose-designed education facilities on the entrance level of TRI. The relocation means that these students are continuously exposed to exciting laboratory and clinical research, and can interact with academics and more than 60 research students.
- In 2013, more than 100 students participated in SPARQ-ed's Research Immersion Program, which is a five day workshop based on an actual project being undertaken by a research group at TRI.
- A number of unique research higher degree training programs were developed aimed at producing research-aware clinicians to produce medical discoveries from observed clinical problems.



Janssen Industry Leadership Award 2013

Professor Ian Frazer AC, was awarded the Industry Leadership Award as part of the prestigious Janssen Industry Excellence Awards for 2013.

Announced during the opening ceremony of Australia's annual AusBiotech National Conference in Brisbane in October 2013, this lauded award recognises leaders who have made significant contribution to the industry and an outstanding commitment to life sciences and biotechnology that often goes beyond the 'job description'.

Prof Frazer, CEO and Director of Research at Translational Research Institute (TRI) was recognised for his steadfast commitment to identifying innovative solutions for areas of high unmet clinical need, passion for translational research and his reputed advocacy for our next generation of researchers.

"Professor Frazer's leadership has demonstrated exceptional success in navigating the research, clinical trial and commercialisation pathways that are essential for success in this industry," said AusBiotech's Chief Executive Officer, Dr Anna Lavelle.

Professor Frazer's early work in Australia was fostered by the Walter and Eliza Hall Institute and University of Queensland (UQ), and he is now a director of biotechnology start-up company, Coridon, which is developing DNA vaccines. His work has attracted significant research funding from several Australian and US funding bodies.

"Professor Frazer is an excellent ambassador for Australia's biotechnology sector and is actively supporting the growth of Australia's bio-economy, which is a central focus for this year's conference," said Dr Lavelle.



NEWS AND EVENT HIGHLIGHTS

Partnership with the Brisbane Festival 2013

An association between science and the arts isn't as unusual as it might sound as Brisbane's new Translational Research Institute (TRI) partnered with the state's iconic arts event, Brisbane Festival. At the festival's opening day concert on 7 September 2013, Professor Frazer AC, CEO and Director of Research at TRI spoke about the importance of a healthy and happy community being the cornerstone of society, which is why TRI and the Brisbane Festival are partnering for better health.

Official launch

The Governor-General, Her Excellency the Honourable Quentin Bryce AC CVO, officially opened the new Translational Research Institute on Thursday 10 October 2013. The building had been operational since 2012.



Brisbane Open House

Translational Research Institute (TRI) opened its doors to the community for the first time for the annual Brisbane Open House event on Saturday 12 October and Sunday 13 October 2013.

Activities included a Café Scientifique Q&A: 'How important is medical research to our daily lives?' on Saturday afternoon at 3:30pm.

Architecture Awards

The TRI building has received a number of state and national awards for architectural and engineering excellence, including the Australian Institute of Architects (AIA) 2013 John Dalton Award for Building of the Year (Brisbane region); the 2013 AIA FDG Stanley Award for Public Architecture and 2013 AIA GHM Addison Award for Interior Architecture.



Book launch and Industry Leader Award

Madonna King, an award-winning, journalist wrote a book on Professor Frazer which was published by the University of Queensland Press in 2013. The book was titled 'Ian Frazer: The man who saved a million lives'.

Professor Ian Frazer AC, CEO and Director of Research at the Translational Research Institute was awarded Janssen's Industry Leader Award for Biotechnology 2013 on Thursday 31 October 2013.

Prof Frazer was recognised for his steadfast commitment to identifying innovative solutions for areas of high unmet clinical need, passion for translational research and his reputed advocacy for our next generation of researchers.

(Peter Høj, UQ Vice-Chancellor and President; Madonna King, Author; John Howard, Former Prime Minister, Professor Ian Frazer and Xiao Yi Sun, wife of Jian.)

Australia's Prime Minister visits TRI

The Prime Minister, Kevin Rudd, his wife Thérèse Rein and the Federal Minister for Health and Medical Research, Tanya Pibersek visited TRI on 20 August 2013.

(Professor Selena Bartlett, Prime Minister, Kevin Rudd, Thérèse Rein and Hon Tanya Pibersek, Federal Minister for Health and Medical Research.)



Queensland's Premier visits TRI

The Premier of Queensland, the Hon. Campbell Newman MP visited TRI on Thursday 16 May 2013 to award Professor Matthew Brown the \$1.25 million 2013 Premier's Science Fellowship to develop his work identifying genes that underlie the causes of rheumatoid arthritis and tuberculosis.

(Hon Campbell Newman, Queensland Premier presents Professor Matthew Brown with his Award.)

Signing ceremony of the Statement of Intent between Queensland and the Academy of Sciences

Queensland is the only sub-national government in the world to have a jointly funded collaborative research program with the Chinese Academy of Sciences (CAS) through a Statement of Intent (SOI) since August 2009. The SOI was officially renewed at a ceremony at TRI on Saturday 28 September 2013.

(Queensland Minister for Science and Innovation, Ian Walker MP and Professor Yaping Zhang, Senior Vice-President, CAS)



GRANTS 2013

ABBVIE Pty Ltd

Title: Value of Diffusion Weighted MRI in Axial Spondyloarthritis

Awarded to: Brown, M.
Awarded: \$153,617

Amgen unrestricted grant

Title: The FAVOURED Trial

Awarded to: Hawley, C.M.
Awarded: \$100,000

Arthritis Foundation of Queensland

Title: Professorial Chair in Rheumatology

Awarded to: Thomas, R.
Awarded: \$276,000

Australian Cancer Research Foundation

Title: The Diamantina Individualised Oncology Care Centre (DIOCC)

Awarded to: Brown, M.A.; Frazer, I.H.; Gandhi, M.; Gill, D.; HILL, M.; Marlton, P.; Martin, J.; Saunders, N.A.; Shaw, P.N.; Soyer, H.P.; Walpole, E.; Brown, N.; Leo, P. J. & others
Awarded: \$2,340,000

Australian Department of Defence

Title: Molecular Investigations into the Basis of Disorders Manifest Following DeSeal/ReSeal and Clinical Risk Prediction Associated with Jet Fuel Exposure Syndrome

Awarded to: Bowling, F; Venture, D; Waterhouse, N; McDermott, B; Thomas, M.
Awarded: \$751,943

Australian Research Council

Title: The Diamantina Individualised Oncology Care Centre (DIOCC)

Awarded to: Brown, M.; Frazer, I.H.; Gandhi, M.; Gill, D.; Hill, M.; Martin, J.; Saunders, N.; Shaw, P.; Soyer, H.P.; Walpole, E.; Brown, N.; Leo, P.; Mollee, P.; Prow, T.
Awarded: \$787,500

Title: Skin penetration of nanoparticles promoted by particle design, formulation and application method

Awarded to: Xu, Z.P.; Zvyagin, A.; Roberts, M.S.
Awarded: \$120,000

Title: Investigating a novel, physical adjuvant for improving immune responses of vaccines

Awarded to: Kendall, M.A.; Frazer, I.H.; Forster, A.
Awarded: \$1,458,345

Bond University

Title: Collaborative Research Network for Advancing Exercise and Sports Science in Australia

Awarded to: Brown, M.A.; Calder, A.; Fiatarone S.M.; Brown, N.
Awarded: \$467,978

Brien Holden Vision Institute

Title: Microbial communities that reside in the human ocular

Awarded to: Hugenholtz, P.; Louise, J.
Awarded: \$55,000

Cancer Council Queensland

Title: The role of epidermal growth factor receptor trafficking in tumour progression and patient therapy resistance

Awarded to: Simpson, F.; Soyer, H.P.; Burmeister, B.; Porceddu, S.; Saunders, N.; Foote, M.
Awarded: \$107,475

Title: A novel Src regulated protease activated signalling pathway in hematogenous metastasis

Awarded to: Hooper, J.D.; Lopez-Otin, C.; Quigley, J.P.; Hill, M.; Gobe, G.
Awarded: \$100,000

Title: Targeting MUC13 to sensitise colorectal cancer cells to apoptosis

Awarded to: McGuckin, M; Waterhouse, N;
Awarded: \$92,499

Title: A novel molecular pathway in cancer

Awarded to: Hooper, J; Lopez-Otin, C; Quigley, J.
Awarded: \$100,000

Title: Characterisation and manipulation of bone marrow niche factors regulating acute myeloid leukaemia stem cell fate

Awarded to: Winkler, I; Levesque, J.P.; Gonda, T.
Awarded: \$99,723

Title: A novel Src regulated protease activated signalling pathway in hematogenous metastasis

Awarded to: Hooper, J; Lopez-Otin, C; Quigley, J; Hill, M; Gobe, G.
Awarded: \$100,000

Title: Targeting inflammatory pathways in epithelial ovarian cancer

Awarded to: Coward, J.
Awarded: \$99,891

Title: Investigating the role of NR4A nuclear receptors in melanocytic DNA repair and tumorigenicity

Cancer Council Queensland
Awarded to: Smith, A.G.; Sturm, R.
Awarded: \$220,000

Title: Automated image analysis development for early non-melanoma skin cancer detection

Cancer Council Queensland
Awarded to: Prow, T.; Soyer, H.P.
Awarded: \$174,900

Title: Chemokine involvement in the differential response of Actinic Keratosis and Squamous Cell Carcinoma to Imiquimod therapy

Cancer Council Queensland
Awarded to: Wells, J.; Frazer, I.H.
Awarded: \$220,000

Title: Memory CD8 T cell subsets in non-melanoma skin cancer

Cancer Council Queensland
Awarded to: Leggatt, G. R.; Mattarollo, S.R.
Awarded: \$220,000
Cancer Research Institute (USA)

Title: Optimising immunotherapy for squamous cancer

Awarded to: Frazer, I.H.
Awarded: \$200,000

Canine Research Foundation

Title: Mapping canine sensorineural deafness in the Australian cattle dog

Awarded to: Seddon, J.; O'Leary, C.A.; Sommerlad, S. F.; Duffy, D.
Awarded: \$20,265

Cedars-Sinai Medical Centre

Title: Genetics of Ankylosing Spondylitis Study (NIH grant administered by the University of Texas

Awarded to: Brown, M.A.
Awarded: \$13,690

Children's Health Foundation Queensland

Title: Paediatric Palliative Care

Sporting Chance Cancer Foundation, Administered through Raelene Boyle Telehealth Outreach Program
Awarded to: Smith, A.C.
Awarded: \$115,500

Department of Health and Aging

Title: Utilisation review of Ezetimibe

Awarded to: Hollingworth, S.A.; Ostini, R.; David, M.; Martin, J.; Tett, S.
Awarded: \$70,417

Feline Health Research Fund

Title: A Pilot Study: What are the genetic loci associated with diabetes mellitus in Australian Burmese cats?

Awarded to: Rand, J.; O'Leary, C.A.
Awarded: \$2,750

France-Australian Science Collaboration

Title: Development of multivariate statistical approaches for cross-platform analyses

Early career fellowship
Awarded to: Le Cao, Kim-Anh
Awarded: \$5,200

Fundamental Research Grant Scheme

Title: Deciphering the molecular mechanisms and therapeutic potential of TRAF1 and NF- κ B in renal cell carcinoma

Awarded to: Rajandram, R.; Razack, A.; Ng, K.L.; Morais, C.; Gobe, G.
Awarded: \$50,000

Garnett Passe/Rodney Williams Memorial Foundation

Title: Viral Oncogenesis in Oral Squamous Cell Carcinoma

Awarded to: Frazer, I.H.; Perry, C.
Awarded: \$161,100

Irene Hunt Hypertension Research Trust

Title: Hypertension – causes and diagnosis

Awarded to: Stowasser, M.; Gordon, R.D.
Awarded: \$113,668

John and Mary Kibble Trust

Title: What is the molecular genetic cause for haemangiosarcoma in dogs?

Awarded to: O'Leary, C.A.; Duffy, D.
Awarded: \$8,220

Juvenile Diabetes Research Foundation in Australia

Title: A genetic link between gut microbial flora and T1D susceptibility

Awarded to: Hamilton-Williams, E.
Awarded: \$803,313

Title: Mitochondrial dysfunction in diabetic kidney disease

Post Doctoral Fellowship
Awarded to: Ward, M.
Awarded: \$44,764

Title: The Australian Diabetes Data Network (ADDN) Biobank

Awarded to: Thomas, R.; Craig, M.; Jones, T. & Morahan, G.
Awarded: \$64,535

Leon Stone Sarcoma Research Grant

Title: Novel therapeutics for the treatment of canine and human osteosarcoma metastasis

Awarded to: Munoz, L.B.; Saunders, N.A.; Straw, R.; Sommerville, S.M.
Awarded: \$36,000

Leukaemia Foundation of Queensland

Title: Combining vaccination and antibody-based immunotherapy to treat B cell lymphomas

Awarded to: Mattarollo, S.R.
Awarded: \$110,000

Mater Misericordiae Health Services Brisbane Ltd

Title: Gene identification for disorders of glucose-mediated insulin secretion using next-generation resequencing: streamlining the old and discovering the new

Awarded to: Duncan, E.L.; Johnson, S.R.; Venter, D.J.; Harris, M.
Awarded: \$55,000

Motor Neurone Disease Research Institute of Australia Inc

Title: Trans-ethnic and trans-omic statistical analyses to identify new ALS risk variants

Awarded to: Benyamin, B.; Visscher, P.; Wray, N.
Awarded: \$110,000

Movember Global Action Plan 1

Title: Collaborative Biomarker Project: Circulating Tumour Cells

Awarded to: Nelson, C.
Awarded: \$92,500

Title: Development of assays for the capture and detection of prostate cancer-derived exosomes and exosomal markers
Awarded to: Russell, P.; Nelson, C.; Soekmadji, C.
Awarded: \$84,400

National Breast Cancer Foundation

Title: Chromosome instability: Novel opportunities for the diagnosis and treatment of breast cancer
Early Career Fellowship
Awarded to: Duijf, P.
Awarded: \$730,400

Title: Glycosylation-specific circulating glycoprotein biomarkers for early detection of metastatic breast cancer
Novel Concept Award
Awarded to: Hill, M.
Awarded: \$219,833

National Institutes of Health

Title: Genetics and Ankylosing Spondylitis (AS) Pathogenesis
Administered by the University of Texas
Awarded to: Brown, M.A.; Reveille, J.
Awarded: \$212,575

Title: Estimating the Frequencies and Population Specificities of Risk Alleles
Administered by the University of Colorado
Awarded to: Visscher, P.; Keller, M.
Awarded: \$152,219

National Health and Medical Research Council

Title: Modification of the microbiome and utilisation of microbial products as novel treatments for COPD
Administered by the University of Newcastle
Awarded to: Hugenholtz, P.; Hansbro, P.; Cooper, M.
Awarded: \$488,479

Title: Determining the causes of congenital vertebral defects
Administered by Victor Chang Cardiac Research Institute
Awarded to: Duncan, E. L.; Dunwoodie, S. & Sparrow, D.
Awarded: \$237,569.2

Title: The function of the natural antisense ghrelin receptor gene (GHSROS) in cancer
Awarded to: Chopin, L.; Herington, A.; Hill, M.; Colgrave, M.; Jeffrey, P.
Awarded: \$158,670

Title: The ghrelin axis as a target for prostate cancer therapy
Awarded to: Chopin, L.; Herington, A.; Chen, C.; Seim, I.; Veedu, R.I.
Awarded: \$566,226

Title: Orexin/Hypocretin Receptors in Self-Administration and Stress-Induced Reinstatement of Ethanol Seeking
Awarded to: Bartlett, S.; Bellingham, M.
Awarded: \$520,505

Title: Combination immunotherapeutic strategies for haematological cancers
Career Development Fellowship
Awarded to: Mattarolla, S.R.
Awarded: \$411,767

Title: The Centre of Excellence in Telehealth
Centres of Research Excellence
Awarded to: Gray, L.C.; Theodoros, D.G.; Smith, A.; Russell, T.G.; Soyer, H.P.; Hayman, N.E.; Whitty, J.; Gillespie, N.A.
Awarded: \$2,495,359

Title: Genetic polymorphisms associated with clinical and dermoscopic naevus signature patterns
Awarded to: Soyer, H.P.; Sturm, R.; Duffy, D.; Schaidler, H.
Awarded: \$814,994

GRANTS 2013

Title: Genetic analysis of de novo and inherited exome variation in schizophrenia

Awarded to: Mowry, B.; Visscher, P.; Thara, R.; Gratten, Jake
Awarded: \$1,319,165

Title: Circulating Biomarkers in advanced classical Hodgkin Lymphoma

Awarded to: Gandhi, M.; Fulham, M.; Trotman, J.; LE CAO, K.; Berkahn, L.
Awarded: \$513,447

Title: Identifying the mechanism of the G2 phase UV checkpoint and repair response commonly defective in melanoma

Awarded to: Gabrielle, B.G.; Pavey, S.J.
Awarded: \$549,409

Title: Interactions between host and the gut microbiome in the pathogenesis of ankylosing spondylitis and Crohn's disease

Awarded to: Brown, M.A.; Radford-Smith, G.L.; Morrison, M.; Ciccia, F.
Awarded: \$557,477

Title: Determinants of progression of actinic keratoses to squamous cancer

Awarded to: Frazer, I.H.; Hugenholtz, P.; Dinger, M.; Soyer, H.P.; Playford, E.; Prow, T.
Awarded: \$1,129,978

Title: Real-time Imaging of cell cycle progression in melanoma

Awarded to: Haass, N.; Weninger, W.
Awarded: \$139,503

Title: hSSB1: A key regulator of genome stability and potential cancer therapeutic target.

Awarded to: D Richard, E Bolderson, K O'Byrne, L Cubeddu
Awarded: \$599,222

Title: Understanding intrinsic and acquired resistance to anti-FGFR therapies.

Awarded to: Pollock, P.; Turner, N.; Mohammadi, M.
Awarded: \$772,012

Title: Research Fellowship SRF A

Awarded to: Whitehead, A.J.
Awarded: \$118,157

Title: Research Fellowship SRF B

Awarded to: McGuckin, M.
Awarded: \$123,750

Title: Epigenetic and neurobehavioural changes in a new mouse model of foetal alcohol spectrum disorders

Awarded to: Chong, S; Kaminen-Ahola, N; Galloway, G; Kurniawan, N
Awarded: \$175,690

Title: Research Delineating the role of advanced glycation in diabetes and nephropathy

Fellowship SRF A
Awarded to: Forbes, J.
Awarded: \$149,824

Title: CDA: Understanding human dendritic cells

Fellowship
Awarded to: Radford, K.
Awarded: \$106,230

Title: Dietary intake of highly processed foods as a contributor to type 1 diabetes

Awarded to: Forbes, J; Slattery, R.
Awarded: \$180,005

Title: Apoptosis inducing factor and the progression of diabetic nephropathy

Awarded to: Forbes, J; Coughlan, M.
Awarded: \$159,975

Title: KLF1 regulatory networks in health and disease

Awarded to: Perkins, A; Bailey, T.
Awarded: \$198,208

Title: Industry CDF Level 2: Manipulation of haematopoietic stem cell niches to improve therapeutic outcomes
Awarded to: Winkler, I.
Awarded: \$108,142

Title: Mobile DNA as a contributor to human brain cancer
Awarded to: Faulkner, G; Ryan; Taft
Awarded: \$227,616

Title: How does the bone marrow regulate normal blood formation and leukaemia progression
Research Fellowship SRF A
Awarded to: Levesque, J.P.
Awarded: \$118,157

Title: CDF1: L1 retrotransposition in human development and disease
Awarded to: Faulkner, G.
Awarded: \$99,431

Title: Non protein-coding RNA function in mesoderm formation and organogenesis
Awarded to: Perkins, A; Dinger, M.
Awarded: \$18,5037

Title: Genetic consequences of mobile DNA activation in abnormal neurodevelopment
Awarded to: Faulkner, G; Clemens-Daxinger, L; Upton, K.
Awarded: \$134,464

Title: How Muc1 regulates the inflammasome in the gut
Awarded to: Sutton, P; McGuckin, M.
Awarded: \$47,192

Title: Role of bone marrow cells in leukemia progression and resistance to chemotherapy
Awarded to: Levesque, J.P; Pettit, A; Winkler, I.
Awarded: \$189,912

Title: Defining how fat cells are generated
Awarded to: Whitehead, J; Prins, J.
Awarded: \$162,5045

Title: Understanding the Interplay Between ER Stress and Inflammation
Awarded to: McGuckin, M; Hasnain, S; Florin, T; Serisier, D; Phipps, S.
Awarded: \$178,866

Title: Whole genome analyses of oesophageal adenocarcinoma
Awarded to: Barbour, A.; Waddell; Krause; Nancarrow; Husse; Watson; Lord
Awarded: \$957,987

Title: DOCetaxel with or without radiation Therapy for resectable Oesophageal adenocarcinoma based on early PET Response to induction chemotherapy (DOCTOR)
Awarded to: Barbour, A.
Awarded: \$791,991

Title: Comparison of pre and perioperative immunonutrition in patients undergoing surgical resection of oesophageal cancer
Awarded to: Jamieson G.G.; Watson D.I.; Smithers, B.M.; Isenring, E.A.
Awarded: \$714,000

Title: The SIGNAL Trial: Steroids in ImmunoGlobulin A Nephropathy: Assessment of Long term outcomes
Awarded to: Perkovic; Cass, A.; Johnson, D.W.; Jha, V.
Awarded: \$536,323

Title: Effects of nevogenesis susceptibility genes and phenotype correlation with dermoscopic characteristics of nevi
Awarded to: Soyer, P.; Sturm, R; Duffy, D.; Smithers, B.
Awarded: \$535,206

Title: Centres of Research Excellence, The Centre of Excellence in Telehealth
Awarded to: Gray, L.C.; Smith, A.C.; Gillespie, N.A.; Hayman, N.E.; Russell, T.G.; Soyer, H.P.; Theodoros, D.G.; Whitty, J.
Awarded: \$535,206

Title: Robust antibiotic dosing for critically ill patients receiveing renal replacement therapy

Awarded to: Roberts, J.; Lipman, L.; Paul, S.; Peake, S.; Turnidge, J.; Roberts, M.S.
Awarded: \$462,607

Title: PROBE-NET: The Progression of Barrett's Esophagus to Cancer Network

Awarded to: Whiteman; Barbour, A.
Awarded: \$410,973

Title: The Australasian Kidney Trials Network Enabling Grant

Awarded to: Hawley, C.; Johnson, D.W.
Awarded: \$400,000

Title: Personalising care in operable pancreas cancer. A study of imaging and molecular biomarkers to guide treatment of patients receiving preoperative chemotherapy followed by surgery

Awarded to: Barbour, A.
Awarded: \$391,987

Title: IMPROVE-CKD Study: Impact of a phosphate binder on cardiovascular disease in Chronic Kidney Disease

Awarded to: Hawley, C.; Elder, G.; Walker, R.; Block, G.; Faull, R.; Polkinghorne, K.; Toussaint, N.
Awarded: \$383,749

Title: Biomarkers of acute renal toxicity in humans

Awarded to: Buckley, N.; Endre, Z.; Dawson, A.; Sheriff, R.; Isbister, G.; Roberts, M.S.
Awarded: \$328,004

Title: Specific targeting of nanosystems by cutaneous delivery

Awarded to: Roberts, M.S.; Kendall, M.
Awarded: \$318,692

Title: Telehealth for Residential Aged Care Facilities: a pragmatic randomised controlled trial

Awarded to: Gray, L.C.; Martin-Khan, C.; Beattie, E.; Edirippulige, E.; Russell, T.; Smith, A.; Theodoros, D.; Scott, I.A.; Hubbard, R.
Awarded: \$300,000

Title: Controlled trial of slowing of Kidney Disease progression From the Inhibition of Xanthine oxidase (CKD-FIX): A double-blind, randomised, placebo-controlled trial

Awarded to: Johnson, D.W.; Harris, D.C.; Faull, R.; Palmer, S.; Boudville, N.; Badve, S.; Rangan, G.; Kanellis, J.; Walker, R.; Brown, F.
Awarded: \$288,467

Title: Advanced imaging to define hepatic and intestinal drug disposition in aging and liver diseases

Awarded to: Roberts, M.S.; Crawford, D.; Madden, G.
Awarded: \$245,273

Title: Telehealth in Residential Aged Care Facilities: a Pragmatic Randomised Control Trial

Awarded to: Gray, L.C.; Martin-Khan, M.G.; Beattie, E.; Edirippulige, S.K.; Russell, T.G.; Smith, A.C.; Theodoros, D.; Scott, I.; Hubbard, R.E.
Awarded: \$217,546

Title: Protracted bacterial bronchitis in children

Awarded to: Chang, A.; Upham, J.; Gibson, P.
Awarded: \$194,344

Title: Monocytes/macrophages in chronic liver diseases

Awarded to: Powell, E.E.; Jonsson, J.R.; Clouston, A.D.
Awarded: \$192,661

Title: Macrophages: a therapeutic target in peritoneal dialysis-induced fibrosis?

Awarded to: Campbell, J.; Rolfe, B.; Johnson, D.W.; Wei, M.
Awarded: \$191,130

Title: Targeted redox therapy for photoageing prevention and treatment

Awarded to: Prow, T.; Roberts, M.S.
Awarded: \$181,130

Title: Effects of nevogenesis susceptibility genes and phenotypic correlation with dermoscopic characteristics of nevi

Awarded to: Soyer, H.P.; Sturm, R.; Duffy, D.; Smithers, B.
Awarded: \$173,902

Title: Anti-viral immunity in asthma: a detailed assessment of TLR7 function and the regulation of interferon synthesis

Awarded to: Upham, J.W.; Bosco, A.; Mackay, I.
Awarded: \$156,464

Title: The BLOCADE feasibility study

Awarded to: Roberts, M.; Hawley, C.M.; Ierino, F.; Isabel, N.; Pilmore, H.; Perkovic, V.
Awarded: \$146,484

Title: Serial Nt-Probnp Monitoring for Predicting Major Cardiovascular Events in the Dialysis Population

Awarded to: Johnson, D.W.; Hawley, C.; Fahim, M.
Awarded: \$140,597

Title: CRE Grant, The Centre of Excellence in Telehealth

Awarded to: Gray L.C.; Theodoros, D.; Smith, A.; Russell, T.; Soyer, H.P.; Hayman, N.; Whitty, J.; Gillespie, N.
Awarded: \$121,678

Title: The HERO trial

Awarded to: Johnson, D.W.; Fassett, R.; Ferrari, P.; Pedagogos, E.; McDonald, S.P.; Clark, P.
Awarded: \$112,399

Title: Targeted LOWering of Central Blood Pressure (CBP) in patients with hypertension: a randomised controlled trial (LOW CBP study)

Awarded to: Sharman, J.; Abhayaratna, W.; Stowasser, M.
Awarded: \$107,341

Title: Practitioner Fellowship

Awarded to: Powell, E.E.
Awarded: \$61,267

Title: Confocal microscope and LCMSMS

Awarded to: Milne, R.; White, J.; Zhou, X.; Wang, S.; Xian, C.; Roberts, M.S.
Awarded: \$56,000

NHF

Title: Glucose transport in the kidney in diabetes

Post Doctoral Fellowship
Awarded to: Gallo, L.
Awarded: \$57,000

NIHR Research for Patient Benefit (RfPB) Programme

Title: PB-PG-0610-22456, A validated competitive risk model that will inform a decision aid for peritoneal dialysis patients deciding whether to switch modality to avoid developing encapsulating peritoneal sclerosis
Awarded to: Davies, S.; Lambie, M.; Johnson, D.W.
Awarded: £82,240

Paragon Biomedical Inc

Title: A Multicenter, Randomized, Double-Blind Study Efficacy and Safety of Continuing versus Withdrawing Adalimumab Therapy in Maintaining Remission in Subjects with Non-Radiographic Axial Spondyloarthritis
Awarded to: Brown, M.A.
Awarded: \$170,686

PA Research Foundation

Title: Bringing genomes to life: isolation of genetically tractable, not-yet-cultured members of the human microbiota using metaparental mating methods

Awarded to: Morrison, M.
Awarded: \$22,000

Title: Local immune response to perineural squamous cell carcinoma

Awarded to: Leggatt, G.R.; Panizza, B.J.
Awarded: \$22,000

Prince Charles Hospital Foundation

Title: The normal pulmonary flora - fact or fiction?

Awarded to: Hugenholtz, P.; Chambers, D.
Awarded: \$45,244

Title: The lung transplant mycobiome

Awarded to: Hugenholtz, P.; Chambers, D.; Yerkovich, S.; Willner, D.L.
Awarded: \$71,143

Princess Alexandra Research Support Scheme

Title: A randomised, placebo-controlled clinical trial of synbiotics in the management of Chronic Kidney Disease

Awarded to: Campbell, K.
Awarded: \$75,000

Title: A simple liver-targeted testosterone treatment for sarcopaenia

Awarded to: Ho, K.
Awarded: \$75,000

Title: Effect of body size on chemotherapy dose and blood concentrations in cancer

Early Career Clinical Fellowship
Awarded to: Martin, J.
Awarded: \$75,000

Title: Targeting the Wnt Pathway: Implications for Chronic Liver Disease

Awarded to: Powell, E.E.
Awarded: \$75,000

Title: Genetic basis of primary aldosteronism as a potentially curable form of hypertension

Awarded to: Stowasser, M.
Awarded: \$75,000

Title: Anti-microbial immunity in poorly controlled asthma: relationships to inflammatory phenotypes and clinical outcomes

Awarded to: Upham, J.
Awarded: \$75,000

Title: Assessment of the burden and consequences of interruptions in health care to workflow and patient outcomes

Awarded to: Venkatesh, V.
Awarded: \$75,000

Prostate Cancer Foundation of Australia

Title: Evaluation of the role of the Prostate Specialist Nurse

A National PCFA Pilot Project
Awarded to: Yates, P.
Awarded: \$258,192

Title: Australian Prostate Cancer BioResource

Operating Grant
Awarded to: Clements, J.
Awarded: \$200,000

Title: Engineering a high-throughput prostate cancer stem cell niche mimic

New Concept Grant
Awarded to: Doran, M.; Chambers, K.; Clements, J.; Russell, P.
Awarded: \$150,000

Title: Mechanisms of abiraterone resistance in prostate cancer

PCFA/Cancer Australia Priority-driven Collaborative Cancer Research Scheme
Awarded to: Davis, I.D.; Risbridger, G.; Nelson, C.; Taylor, R.; Mainwaring, P.
Awarded: \$140,000

Title: PSA as a therapeutic target: an integrated systems biology approach to discover the pathways initiated by PSA activity in prostate cancer progression

Awarded to: Clements, J.; Overall, C.; Gorman, J.; Hutmacher, D.; Nelson, C.
Awarded: \$124,451

Title: Targeting hyperinsulinaemia in castrate resistant prostate cancer

Young Investigator Grant
Awarded to: Gunter, J.
Awarded: \$117,036

QEMRF Emergency Medicine Staff Specialist Research Grants Scheme

Title: Developing a Quality Framework for the Care of Older Patients in the Emergency Department
Awarded to: Burkett, E.; Gray, L.C.; Jones, R.; Martin-Khan, M.G.
Awarded: \$50,567

QGC Pty Ltd Social Investment Partnership

Title: Health-e-Regions (Phase 2)
Awarded to: Gray, L.C.; Smith, A.C.
Awarded: \$502,715

Quality Medication Care Pty Ltd

Awarded to: Roberts, M.S.
Awarded: \$50,000

Queensland Government

Title: Department of Health NBN Enabled Telehealth Pilots Program, Comprehensive Telehealth Assisted Care (ContAC) program

Awarded to: Theodoros, D.G.; Smith, A.; Gray, L.C.; Armfield, N.R.; Russell, T.G.; Martin-Khan, M.G.
Awarded: \$1,604,724

Title: Service Level Agreement for PAH Telehealth Centre, Princess Alexandra Hospital, Metro South Hospital and Health Service

Awarded to: Gray, L.C.; Smith, A.C.
Awarded: \$416,524

Title: Department of Health, The Development, Delivery, Promotion and Evaluation of a Clinical Telehealth Educational and Training Programs for Clinicians

Awarded to: Smith, A.C.; Edirippulige, S.; Armfield, N.R.; Gray, L.C.
Awarded: \$314,483

Title: Service Level Agreement for Queensland Telepaediatric Service, Royal Children's Hospital, Metro South Hospital and Health Service

Awarded to: Gray, L.C.; Smith, A.C.
Awarded: \$257,045

Title: Service level agreement with Queensland Health, Comprehensive Electronic Geriatric Assessment (CeGA) Online

Awarded to: Gray, L.C.
Awarded: \$156,677

Title: Darling Downs Hospital and Health Service, Queensland Health, Investigation of the Long-Term Outcomes of a Mobile Telehealth Screening Service for Aboriginal Children in Cherbourg

Awarded to: Smith, A.C.; Armfield, N.R.; Scuffham, P.
Awarded: \$87,460

Title: Australian-Canadian Prostate Cancer Research Alliance

National International Research Alliance Program
Awarded to: Nelson, C.; Clements, J.; Gleave, M.
Awarded: \$266,667

Title: Development of New Therapeutic Approaches for Prostate Cancer Progression – Dissecting the Effects of Diabetes and Obesity in Cancer Progression

Premier's Smart Futures Fellowship
Awarded to: Nelson, C.
Awarded: \$250,000

GRANTS 2013

Title: The effect of valproate in the treatment of high grade glioma: validation of pathology and imaging biomarkers

Awarded to: Fay, M.; Rose, S.E.; Martin, J.; Boyd, A.W.

Awarded: \$42,000

Research Donation Generic

Title: Fluidigm C1 Single Cell Preparation

Awarded to: Brown, M.A.

Awarded: \$230,000

Rome Foundation

Title: Usefulness of Rome III symptoms, psychological characteristics and cytokines in accurately diagnosing FGIDs

Awarded to: Holtmann, G.

Awarded: \$50,000

Royal Brisbane and Women's Hospital Foundation

Title: Exploring new Paradigms in Pre-prostate cancer detection and management

Awarded to: Gardiner, R.A.; Lavin, M.F.; Hill, M.; Roberts, M.J.; Schirra, H.J.; Yaxley, J.

Awarded: \$77,000

University of Bristol

Title: Genetics of High Bone Mass

Awarded to: Brown, M.A.

Awarded: \$91,302

University of Queensland

Title: To identify and assess markers of prognosis, response and resistance to therapy in patients with Stage III metastatic melanoma

Cancer Research Fund

Awarded to: Smithers, B.M.; Barbour, A.

Awarded: \$55,000

Title: Novel treatments for inflammatory bowel disease

Collaboration and Industry Engagement Fund

Awarded to: Cooper, M.; Hugenholtz, P.

Awarded: \$84,960

Title: Targeted expression of US28/GNA12/13 fusion proteins for cancer therapy

Collaboration and Industry Engagement Fund

Awarded to: Schaidler, H.; Soyer, H.P.

Awarded: \$73,928.1

Title: Instigators of chromosome instability: Novel opportunities to treat cancer

Early Career Researcher

Awarded to: Duifj, P.

Awarded: \$30,000

Title: Translating statistical associations to biological understanding in epistatic expression

Early Career Researcher

Awarded to: Hemani, G.

Awarded: \$34,000

Title: Accelerated crop development and environmental compliance of agricultural and food systems

Major Equipment and Infrastructure

Awarded to: Menzies, N.W.; Schenk, P.M.P.; Botella, J.; Batley, J.; Edwards, D.B.; Aitken, E.A.B; Godwin, I.D.; Birch, R.G.;

Beveridge, C.A.; Henry, R.J.; Hugenholtz, P.; Kochanek, J.; Lovelock, C.

Awarded: \$117,000

Title: The effect of a Bayesian method of gentamicin monitoring on clinical outcomes and cost: Comparison to existing dosing strategies

Postdoctoral Fellowships for Women

Awarded to: Martin, J.; Lipman, J.

Awarded: \$169,294

Title: Influence of skin cancer on topical elongate microparticle drug delivery

Postdoctoral Research Fellowship
Awarded to: Raphael, A. P.; Prow, T.;
Soyer, H. P.
Awarded: 308,375

Title: The role of Wnt signalling in shaping IL-17 responses during infectious and inflammatory diseases

Postdoctoral Research Fellowship
Awarded to: Kling, J.; Blumenthal, A.
Awarded: \$287,945

Title: Sterile inflammation as a determinant of immune responses in skin

Postdoctoral Research Fellowship
Awarded to: Jazayeri, S. D.; Frazer, I. H
Awarded: \$308,375

Title: Dissecting the cellular mechanisms underlying arthritis and inflammatory bowel disease pathologies in a novel murine model of spondyloarthropathy

Postdoctoral Research Fellowship
Awarded to: Rehaume, L. M.; Thomas, R.
Awarded: \$318,587

Title: UQ Travel Award for International Collaborative Research- Category 1

Awarded to: Deng, L.; Hugenholtz, P.
Awarded: \$1,630

Title: Alteration of the Transcriptome During Acute Carotid Atherosclerotic Plaque Rupture

UQ-Ochsner Seed Fund for Collaborative Research – MABS Funds
Awarded to: Bazan, H.; Brown, M. A.
Awarded: \$36,423

Title: New blood tests for Barrett's oesophagus and oesophageal cancer

UQ-Ochsner Seed Fund for Collaborative Research – MABS Funds
Awarded to: Hill, M; JOSHI, V.; Barbour, A. P.
Awarded: \$45,000

University of Technology Sydney

Title: Microscale experiments to understand a microscale world: Combining microfluidics and ecogenomics to investigate microbial processes in the ocean

Awarded to: Tyson, G.W.; Hugenholtz, P.;
Seymour, J.; Stocker, R.
Awarded: \$1,661,018

UWA-UQ Bilateral Research Collaboration Award

Title: Chlamydia induced uveitis in the SKG mouse model of Spondyloarthropathy

Awarded to: Thomas, R.; Degli-Esposti, M.
Awarded: \$14,000

PUBLICATIONS 2013

- Adam, B.; Tsopelas, C., Liebrechts, T., Bartholomeusz, F.D., Holtmann, G. (2013) *Host immune response determines visceral hyperalgesia in a rat model of post-inflammatory irritable bowel syndrome*. Journal of gastroenterology, 2013 Oct; 48(10):1119-27.
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- Babur, B., Ghanavi, P., Levett, P., Lott, B., Klein, T., Cooper-White, J., Crawford, R., Doran, M. (2013) *The interplay between chonocyte redifferentiation pellet size and oxygen concentration*. Springer New York LLC, Volume 8, Number 3, Pages 1-12.
- Baird, A-M., Eilis Dockry, Anne Daly, Emma Stack, Derek G. Doherty, O'Byrne, K., Gray, S.G. (2013) *IL-23R is epigenetically regulated and modulated by chemotherapy in Non-Small Cell Lung Cancer*. MDPI AG
- Baird, A-M., Gray, S.G., O'Byrne, K.J. (2013) *Inflammation in lung carcinogenesis*. Nova Science Publishers, Inc., Pages 191-214.
- Baird, A-M., O'Byrne, K.J., Gray, S.G. (2013) *Epigenetic regulation of chemokine/chemokine receptor expression*. MDPI AG.
- Barnett CM, Foote MC, Panizza B. (2013) *Cutaneous head and neck malignancies with perineural spread to contralateral cranial nerves: an argument for extending postoperative radiotherapy volume*. Journal of clinical oncology. Official journal of the American Society of Clinical Oncology. 2013 Jun 20;31(18):e291-3.

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- Batra, J., Clements, J. (2013) *Kallikrein-related Peptidase 15 (Prostinogen)*. Academic Press, Pages 2814-2817.
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- Borg, D. J., Forbes, J. M. (2013). *Dietary advanced glycation end products as an environmental contributor to type 1 diabetes*. IMARS Highlights 8, 21-22.
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- Burgess M, Gill DS, Singhanian R, Cheung C, Chambers L, Reynolds BA, et al. (2013) *CD62L as a therapeutic target in chronic lymphocytic leukemia*. Clin Cancer Res, Epub 2013/08/21.
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