

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2011 by State and Organisation

Queensland

The University of Queensland

LP110100712 Prof Michael B Bennett, Dr Anthony J Richardson, Dr Scarla J Weeks, Dr Kathy A Townsend

Approved Project Title **An integrated examination of the drivers of movements of large filter feeding organisms of high ecotourism value: a case study**

2011 \$80,000.00

2012 \$55,000.00

2013 \$55,000.00

Primary FoR 0602 ECOLOGY

Partner/Collaborating Organisation(s)

Consolidated Rutile Ltd, Earthwatch Institute, Lady Elliot Island Eco Resort, Manta Lodge and Scuba Centre

Administering Organisation The University of Queensland

Project Summary

This aim is to define key drivers behind movements of large filter-feeding organisms, using the manta ray as a model system. As dive eco-tourism often depends on the presence of such charismatic filter-feeding animals, an understanding of why animals occupy particular sites at particular times is important, especially in the face of climate change.

LP110100431 Prof Hubert Chanson, Dr David Rissik, Dr Ian R Ramsay

Approved Project Title **A study of turbulence and influence of anthropogenic inputs in small subtropical estuaries**

2011 \$27,222.00

2012 \$27,222.00

2013 \$27,222.00

Primary FoR 0905 CIVIL ENGINEERING

Partner/Collaborating Organisation(s)

QLD Department of Environment and Resource Management

Administering Organisation The University of Queensland

Project Summary

This project aims to improve our basic understanding of mixing and dispersion processes in small subtropical estuaries, and to develop improved predictive models to assist with the management of natural ecosystems. This will be the first comprehensive study of mixing processes and the influence of anthropogenic inputs in small subtropical estuaries.

LP110100403 Dr Elizabeth J Coulson, Dr Robyn H Wallace, Prof David Gearing

Approved Project Title **Regulation of neuronal cell death signalling for the treatment of neurodegenerative diseases**

2011 \$150,000.00

2012 \$140,000.00

2013 \$140,000.00

Primary FoR 1109 NEUROSCIENCES

Partner/Collaborating Organisation(s)

NuNerve Pty Ltd

Administering Organisation The University of Queensland

Project Summary

The progression of neurodegenerative diseases, such as Alzheimer's and motor neuron diseases, are often underpinned by neuronal cell death-signalling. This project aims to characterise molecules that regulate cell death signalling, thereby increasing our knowledge of how neuronal cell death can be inhibited.

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LP110100566 Dr Simon R Dunn, A/Prof Sophie G Dove
Approved Project Title **A lipodomic approach to cnidarian-dinoflagellate symbiosis**

2011		\$70,000.00
2012		\$40,000.00
2013		\$30,000.00
Primary FoR	0601	BIOCHEMISTRY AND CELL BIOLOGY

Partner/Collaborating Organisation(s)

Independent Marine Bio-Chemistry Research Pty Ltd

Administering Organisation The University of Queensland

Project Summary

Fatty Acids are essential for human health and for reef health. This lipodomic study using newly developed techniques, aims to understand the essential and non-essential fatty acid metabolic exchange in the symbiosis that drives coral reef formation and health, and in turn gives reflective insight into our own metabolism.

LP110100200 A/Prof David Edwards, Dr Jacqueline Batley
Approved Project Title **Mapping recombination blocks in Brassica**

2011		\$275,000.00
2012		\$148,000.00
2013		\$188,000.00
Primary FoR	0604	GENETICS

Partner/Collaborating Organisation(s)

Bayer Cropscience

Administering Organisation The University of Queensland

Project Summary

DNA technology provides new ways to study genomes. Understanding how the genome behaves during plant breeding will help design strategies for the breeding and selection of improved crop plants.

LP110100382 Dr Diann S Eley, Dr Caroline O Laurence, Prof David Wilkinson, A/Prof Lucie K Walters, Prof Claude R Cloninger, Dr Janet L Young, A/Prof Scott J Kitchener, Ms Linda E Black
Approved Project Title **Increasing the rural medical workforce: investigating personal traits to enhance our understanding and improve training of rural registrars**

2011		\$35,088.00
2012		\$39,430.00
2013		\$41,754.00
Primary FoR	1302	CURRICULUM AND PEDAGOGY

Partner/Collaborating Organisation(s)

Adelaide to Outback GP Training Program, Australian College of Rural and Remote Medicine, Queensland Rural Medical Education, Western Australian General Practice Education and Training Ltd

Administering Organisation The University of Queensland

Project Summary

This project will research new methodologies for increasing the number of rural doctors in Australia. A better understanding of those individuals best suited for rural practice will provide value for money to the Government by making the most efficient use of initiatives to increase recruitment and retention of the rural workforce.

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LP110100047 Dr Karyn N Johnson, Dr Ralf G Dietzgen
Approved Project Title **Cellular and molecular interactions of rhabdoviruses with their plant hosts and insect vectors**

2011		\$37,000.00
2012		\$37,000.00
2013		\$37,000.00

Primary FoR 0706 HORTICULTURAL PRODUCTION

Partner/Collaborating Organisation(s)

QLD Department of Employment, Economic Development and Innovation

Administering Organisation The University of Queensland

Project Summary

Viruses cause significant economic losses in agriculture, but little information is available on how plant-adapted rhabdoviruses multiply in both their plant hosts and insect vectors. This project on the localisation, transport and host defence properties of essential viral proteins will identify novel targets for improved disease control.

LP110100193 Dr Sarah J Kelly, Prof John E Mangan, A/Prof Frank Alpert
Approved Project Title **How does alcohol sponsorship of sport affect drinking behaviour and attitudes in at risk youth? Implications for public policy and the sport industry**

2011		\$45,000.00
2012		\$31,000.00
2013		\$30,000.00

Primary FoR 1505 MARKETING

Partner/Collaborating Organisation(s)

Australian Sports Commission, Synergies Economic Consulting Pty Ltd

Administering Organisation The University of Queensland

Project Summary

This project responds to national and international research priorities by examining the controversial association between sponsorship of sport by alcohol brands and consumption behaviour in target youth and sportspeople. The research is large scale and multidisciplinary, and will impact policy development and the business of sport in Australia.

LP110100509 Prof Glenn F King
Approved Project Title **Development of environmentally-friendly bioinsecticides for control of Australian crop pests**

2011		\$115,000.00
2012		\$100,000.00
2013		\$100,000.00

Primary FoR 0703 CROP AND PASTURE PRODUCTION

Partner/Collaborating Organisation(s)

Barmac Pty Ltd

Administering Organisation The University of Queensland

Project Summary

Insect pests cause over \$3 billion of damage each year to Australian crops. Current insecticides are becoming less effective, and they often have adverse environmental impacts. This project aims to develop a new generation of environmentally-friendly insecticides that can be used to control insect pests on farms and around the home and garden.

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LP110100237 Prof John P Macarthur, Prof Jane L Hunter, Dr Deborah van der Plaats, Mr Andrew C Wilson, Mr Gavin I Bannerman
Approved Project Title **Architectural practice in postwar Queensland (1945-1975): building and interpreting an oral history archive**

2011		\$162,000.00
2012		\$68,000.00
2013		\$150,000.00
Primary FoR	1201	ARCHITECTURE

Partner/Collaborating Organisation(s)

BVN Architecture, Conrad and Gargett, Robert Riddel Architecture, State Library of Queensland, Wilson Architects

Administering Organisation The University of Queensland

Project Summary

This project will document the histories of Queensland's postwar architects. It will produce a new digital research resource on Queensland architecture and an exhibition which will explore the role of climate, place, innovation and sustainability in Queensland's postwar architecture.

LP110100569 A/Prof Paul C Mills, Prof David Blair, Dr Mark S Flint, Dr Colin J Limpus, Dr Rebecca J Traub, Dr Ristan M Greer, Prof Janet C Patterson-Kane
Approved Project Title **An investigation of trematode infections impacting on marine turtle populations**

2011		\$50,000.00
2012		\$40,000.00
2013		\$40,000.00
Primary FoR	0707	VETERINARY SCIENCES

Partner/Collaborating Organisation(s)

Australia Zoo Wildlife Warriors Worldwide Ltd, QLD Department of Environment and Resource Management, University of Glasgow

Administering Organisation The University of Queensland

Project Summary

This project will provide national benefits including supporting ecotourism and providing a renewable and safe resource for Indigenous people. The outcomes from the project will provide practical feedback and policy advice to community groups and agencies tasked with caring for and managing marine animals and their environments.

LP110100132 Dr Yongjun Peng, Prof Deirdre J Bradshaw, Prof Stephen R Grano
Approved Project Title **Regrinding chemistry and particle breakage mechanisms in increased surface hydrophobicity on fine and ultra-fine particles in mineral flotation**

2011		\$35,000.00
2012		\$35,000.00
2013		\$35,000.00
Primary FoR	0914	RESOURCES ENGINEERING AND EXTRACTIVE METALLURGY

Partner/Collaborating Organisation(s)

Newcrest Mining Ltd

Administering Organisation The University of Queensland

Project Summary

This project will study the effect of regrinding chemistry and particle breakage mechanisms on the redistribution of flotation collectors and the evolution of the metal oxidation species on mineral surfaces. New technologies will be developed to increase mineral surface hydrophobicity and therefore increase fine and ultra-fine particle flotation.

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LP110100683 Dr Roslyn M Petelin, Ms Caroline R McKinnon
Approved Project Title Plain language practices in an Australian local government organisation

2011 \$51,154.00
 Primary FoR 1903 JOURNALISM AND PROFESSIONAL WRITING

Partner/Collaborating Organisation(s)

Brisbane City Council

Administering Organisation The University of Queensland

Project Summary

Governments have unsuccessfully tried to eliminate bureaucratic language from their documents for many years. This project will examine a local government organisation's writing practices to discover why plain language has not been achieved and recommend strategies to address the problem in the researched organisation and at a broader scale.

LP110100323 Prof Tapan K Saha, Dr Mithulananthan Nadarajah, Dr Ramesh Bansal
Approved Project Title Investigation of stability and power quality issues from the wide spread photovoltaic integration into electricity distribution networks

2011 \$54,444.00
 2012 \$54,444.00
 2013 \$54,444.00
 Primary FoR 0906 ELECTRICAL AND ELECTRONIC ENGINEERING

Partner/Collaborating Organisation(s)

Ingenero Pty Ltd

Administering Organisation The University of Queensland

Project Summary

Large scale photovoltaic penetration has been gaining momentum in many countries, including Australia, due to the concerns on climate change and energy independence. This project addresses two key technical barriers associated with photovoltaic integration into the grid and will provide a practical solution for improved power supply stability and quality.

LP110100324 Prof Tapan K Saha
Approved Project Title Development of smart power transformers with intelligent monitoring, diagnostic and life management systems

2011 \$200,000.00
 2012 \$160,000.00
 2013 \$160,000.00
 Primary FoR 0906 ELECTRICAL AND ELECTRONIC ENGINEERING

Partner/Collaborating Organisation(s)

Energex, Ergon Energy, Powerlink Queensland, TransGrid

Administering Organisation The University of Queensland

Project Summary

Failure of a large transformer can cause a blackout to thousands of customers and this project aims to develop a smart diagnostics system for transformers. The developed system will provide a comprehensive tool for providing accurate decisions on operation and maintenance of transformers to safeguard the critical energy infrastructure of Australia.

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LP110100550 Dr James W Vaughan, Prof Peter C Hayes
Approved Project Title **A novel low-energy process route for primary copper production utilising synergistic hydro- and pyro-metallurgical processes**

2011	\$41,000.00
2012	\$48,000.00
2013	\$44,000.00

Primary FoR 0914 RESOURCES ENGINEERING AND EXTRACTIVE METALLURGY

Partner/Collaborating Organisation(s)

Xstrata Copper

Administering Organisation The University of Queensland

Project Summary

With increasing demand for copper metal, there is an urgent need to find new ways to efficiently treat lower grade ores. The new process offers a way of significantly reducing energy consumption and greenhouse gas emissions in primary copper production and making more efficient use of the world's copper resources.