

Summary of Successful Australian Laureate Fellowships Proposals for Funding to Commence in 2011 by State and Organisation

New South Wales

The University of New South Wales

FL110100247 Prof Michael P Keane

Approved Project Title **Understanding the implications of population ageing for the future costs of funding health care, aged care and aged pensions in Australia**

2011		\$226,500.00
2012		\$480,000.00
2013		\$507,000.00
2014		\$517,000.00
2015		\$497,000.00
2016		\$233,500.00
Primary FoR	1402	APPLIED ECONOMICS

FL Prof Michael P Keane

FLPDRA 2

FLPGR 2

Administering Organisation The University of New South Wales

Project Summary

Decisions about health insurance, aged care, superannuation and retirement are often very complex, and most people find making the best choices extremely challenging. This project will develop new models and design new policies that can help people make better decisions in these areas, leading to greater well being in retirement.

FL110100020 Prof Ian R Petersen

Approved Project Title **Consensus, estimation and control in complex large-scale quantum systems**

2011		\$310,222.00
2012		\$620,444.00
2013		\$620,444.00
2014		\$620,444.00
2015		\$598,111.00
2016		\$287,889.00
Primary FoR	0102	APPLIED MATHEMATICS

FL Prof Ian R Petersen

FLPDRA 2

FLPGR 2

Administering Organisation The University of New South Wales

Project Summary

Australia has considerable strengths in quantum technology research and as these technologies advance, the issue of control becomes a critical one. This project will strengthen Australia's position in quantum technology by developing new methodologies for designing high performance controllers and estimators for complex quantum systems.

**Summary of Successful Australian Laureate Fellowships Proposals for
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The University of Sydney

FL110100243 Prof Warwick H Anderson

Approved Project Title **Southern racial conceptions: comparative histories and contemporary legacies**

2011	\$187,847.00
2012	\$398,046.00
2013	\$422,279.50
2014	\$421,449.00
2015	\$450,154.00
2016	\$240,785.50
Primary FoR	2103 HISTORICAL STUDIES

FL Prof Warwick H Anderson

FLPDRA 2

FLPGR 2

Administering Organisation The University of Sydney

Project Summary

This project will reveal intense scientific debate about what it meant to be human in the southern hemisphere during the twentieth century, placing Australian racial thought in a new context. Through comparative study, it shows the distinctive character and scope of racial ideas in southern settler societies, and assesses their global impact.

FL110100093 Prof Pippa Norris

Approved Project Title **Making democratic governance work**

2011	\$252,994.50
2012	\$534,411.50
2013	\$560,011.50
2014	\$562,179.00
2015	\$504,858.00
2016	\$221,273.50
Primary FoR	1606 POLITICAL SCIENCE

FLA Prof Pippa Norris

FLPDRA 2

FLPGR 2

Administering Organisation The University of Sydney

Project Summary

The project will deepen and advance our understanding of the impact of democratic governance upon prosperity, welfare and peace in countries around the world since the late twentieth century.

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University of Wollongong

FL110100196 Prof Gordon G Wallace

Approved Project Title **New dimensions in organic bionics**

2011 \$279,754.00

2012 \$556,311.00

2013 \$548,841.00

2014 \$539,859.00

2015 \$490,509.00

2016 \$222,934.00

Primary FoR 0303 MACROMOLECULAR AND MATERIALS CHEMISTRY

FL Prof Gordon G Wallace

FLPDRA 2

FLPGR 2

Administering Organisation University of Wollongong

Project Summary

The advent of the next generation of medical bionic devices is critically dependent on advances in multifunctional organic materials that, like living systems, provide spatial and temporal control. These advances will provide a platform to revolutionise medical treatments such as nerve and muscle regeneration, with impact on neural prosthetics.

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Victoria

Deakin University

FL110100013 Prof Maria Forsyth

Approved Project Title **New materials for a sustainable energy future**

2011		\$210,000.00
2012		\$432,500.00
2013		\$487,500.00
2014		\$487,500.00
2015		\$432,500.00
2016		\$210,000.00
Primary FoR	0912	MATERIALS ENGINEERING

FL Prof Maria Forsyth

FLPDRA 2

FLPGR 2

Administering Organisation Deakin University

Project Summary

This project will research and develop new selective transport materials to create new sustainable technologies for energy storage (e.g. batteries and capacitors) which will allow greater use of renewable energy sources, desalination and CO2 capture.

**Summary of Successful Australian Laureate Fellowships Proposals for
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The University of Melbourne

FL110100003 Prof Peter G Hall

Approved Project Title **New directions, new problems and new data types in statistical science**

2011	\$187,519.00
2012	\$376,638.00
2013	\$375,238.00
2014	\$372,238.00
2015	\$344,416.00
2016	\$158,297.00
Primary FoR	0104 STATISTICS

FL Prof Peter G Hall

FLPDRA 2

FLPGR 2

Administering Organisation The University of Melbourne

Project Summary

Statistically challenging problems today involve answering many more questions than we have data. Solving them will elucidate the causes of diseases such as cancer, and provide better security for the community. The project will develop new methods for tackling these challenging problems, taking statistical science in new directions.

FL110100102 Prof David M Studdert

Approved Project Title **Law for the public's health: the impact of medico-legal institutions on public health**

2011	\$296,470.00
2012	\$607,155.50
2013	\$621,403.00
2014	\$621,122.00
2015	\$607,409.50
2016	\$297,005.00
Primary FoR	1117 PUBLIC HEALTH AND HEALTH SERVICES

FL Prof David M Studdert

FLPDRA 2

FLPGR 2

Administering Organisation The University of Melbourne

Project Summary

Medico-legal agencies, like complaints commissions and coroners, focus on helping families in distress 'pick up the pieces'. Through a series of partnerships this project will use public health research to help transform their roles.

Summary of Successful Australian Laureate Fellowships Proposals for Funding to Commence in 2011 by State and Organisation

FL110100072	Prof Stuart Wyithe
Approved Project Title	Distant horizons: understanding the first galaxies in the universe
2011	\$261,315.00
2012	\$528,491.00
2013	\$538,352.00
2014	\$539,602.00
2015	\$504,741.00
2016	\$236,315.00
Primary FoR	0201 ASTRONOMICAL AND SPACE SCIENCES

FL	Prof Stuart Wyithe
FLPDRA	2
FLPGR	2
Administering Organisation	The University of Melbourne

Project Summary

Viewing astronomy from a historical perspective we are immediately faced with a series of fundamental unanswered questions. This project will make a comprehensive study of the formation of the first galaxies, and provide answers to the questions of how and when the first generation of galaxies formed, and what they looked like.

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Queensland

Queensland University of Technology

FL110100281 Prof Peter L Bartlett

Approved Project Title **Large-scale statistical machine learning**

2011		\$283,151.00
2012		\$566,302.00
2013		\$566,302.00
2014		\$566,302.00
2015		\$539,080.00
2016		\$255,929.00
Primary FoR	0104	STATISTICS

FL Prof Peter L Bartlett

FLPDRA 2

FLPGR 2

Administering Organisation Queensland University of Technology

Project Summary

This research program aims to develop the science behind statistical decision problems as varied as web retrieval, genomic data analysis and financial portfolio optimisation. Advances will have a very significant practical impact in the many areas of science and technology that need to make sense of large, complex data streams.

**Summary of Successful Australian Laureate Fellowships Proposals for
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The University of Queensland

FL110100044 Prof Bernard M Degnan

Approved Project Title **Origin, evolution and roles of cardinal genomic features underpinning animal multicellular complexity**

2011	\$293,796.00
2012	\$602,703.00
2013	\$617,814.00
2014	\$616,314.00
2015	\$589,203.00
2016	\$281,796.00
Primary FoR	0604 GENETICS

FL Prof Bernard M Degnan

FLPDRA 2

FLPGR 2

Administering Organisation The University of Queensland

Project Summary

As the first genome project from our oceans, the sea sponge Amphimedon heralds a new era of marine science for Australia. Using post-genomic approaches, this project will show how studying marine organisms can produce the most fundamental insights into not only multicellular life but also into human diseases and cancer that originally evolved from our oceans.

FL110100199 Prof Stephen A Haslam

Approved Project Title **Responding to the challenges of identity change: an advanced social identity approach to issues of leadership, health and well-being**

2011	\$240,473.50
2012	\$505,358.00
2013	\$518,969.00
2014	\$518,969.00
2015	\$505,358.00
2016	\$240,473.50
Primary FoR	1701 PSYCHOLOGY

FL Prof Stephen A Haslam

FLPDRA 2

FLPGR 2

Administering Organisation The University of Queensland

Project Summary

This project develops an integrated framework for understanding how changes to identity that are associated with the changing fabric of the modern world impact on Australians' health and well-being. The project will develop and test strategies for tackling these challenges and minimising their negative consequences.

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FL110100103	Prof Jason B Mattingley	
Approved Project Title	Cognitive control of attention and its role in regulating brain function in health and disease	
2011		\$242,442.00
2012		\$509,525.00
2013		\$541,433.00
2014		\$546,008.00
2015		\$541,043.00
2016		\$269,385.00
Primary FoR	1701	PSYCHOLOGY

FL	Prof Jason B Mattingley	
FLPDRA	2	
FLPGR	2	
Administering Organisation	The University of Queensland	

Project Summary

The project will investigate how people use attention to filter sensory information and how the brain controls attention in health and disease. The findings will support new initiatives in a range of fields, from the development of more effective teaching practices to improved rehabilitation strategies for people with brain injuries.

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Western Australia

Curtin University of Technology

FL110100074 A/Prof Philip A Bland

Approved Project Title Meteorite fireballs - illuminating the origins of the solar system

2011		\$224,119.50
2012		\$490,007.50
2013		\$535,330.50
2014		\$550,474.50
2015		\$554,053.00
2016		\$273,021.00
Primary FoR	0403	GEOLOGY

FL A/Prof Philip A Bland

FLPDRA 1

FLPGR 2

Administering Organisation Curtin University of Technology

Project Summary

Meteorites are ancient rocks, containing a record of what conditions were like when the solar system was young; but to understand that record we need to know where they come from. This project will deliver these data, providing us with a template to understand how our planetary system came into being.

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Australian Capital Territory

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The Australian National University

FL110100012 Prof Martin Asplund
Approved Project Title **Unravelling the history of the Milky Way Galaxy and searching for exoplanets through the chemical compositions of stars**

2011		\$309,330.00
2012		\$566,500.00
2013		\$514,340.00
2014		\$514,340.00
2015		\$473,507.00
2016		\$216,337.00
Primary FoR	0201	ASTRONOMICAL AND SPACE SCIENCES

FL Prof Martin Asplund
 FLPDRA 2
 FLPGR 2
Administering Organisation The Australian National University

Project Summary

Understanding the past and future of the Milky Way Galaxy and how planets form around stars are two of the main challenges facing astronomy today. This project will make crucial inroads to both of these topics through a combination of sophisticated supercomputer simulations and unprecedented observations with world-leading Australian facilities.

FL110100098 Prof Mahananda Dasgupta
Approved Project Title **Frontiers of reaction dynamics for new generation accelerator science**

2011		\$316,531.00
2012		\$589,070.00
2013		\$539,078.00
2014		\$533,228.00
2015		\$519,767.00
2016		\$253,078.00
Primary FoR	0202	ATOMIC, MOLECULAR, NUCLEAR, PARTICLE AND PLASMA PHYSICS

FLA Prof Mahananda Dasgupta
 FLPDRA 2
 FLPGR 2
Administering Organisation The Australian National University

Project Summary

Innovative concepts and new Australian capabilities will be combined to understand reactions of exotic isotopes. This will underpin applications of next generation international rare isotope accelerators to advance many areas of physics, medical science and future energy technologies. The project strengthens national capacity in a strategic area.

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FL110100104	Prof Craig C Moritz	
Approved Project Title	New approaches to discovering biodiversity and understanding its response to past climate change	
2011		\$285,747.00
2012		\$586,456.00
2013		\$599,417.50
2014		\$598,399.00
2015		\$584,777.00
2016		\$285,086.50
Primary FoR	0603	EVOLUTIONARY BIOLOGY

FL	Prof Craig C Moritz	
FLPDRA	2	
FLPGR	2	
Administering Organisation	The Australian National University	

Project Summary

New technologies will be used to predict and discover biodiversity hotspots in Australia, especially in the monsoonal tropics. New capacity will be built in biodiversity science, and the results used to improve conservation policy and the effectiveness of conservation planning.