

Discovery - Projects for Funding Commencing in 2011

Summary of Successful Australian Research Fellowships by Administering Organisation

Fellow Name	Fellow Type	Administering Organisation	Project ID	Approved Project Title
Cinner, Dr Joshua E	ARF	James Cook University	DP110101540	Linking social science and ecology to understand the vulnerability of coastal societies to changes in coral reef resources
Dougan, Dr David A	ARF	La Trobe University	DP110103936	Molecular mechanisms of regulatory proteolysis in Escherichia coli
Garner, Dr Richard	ARF	Macquarie University	DP110102360	Generalised topological spaces
Ikaheimo, Dr Heikki A	ARF	Macquarie University	DP110104056	The social ontology of personhood: a recognition-theoretical approach
Bach, Dr Udo	ARF	Monash University	DP110105312	Concepts towards the next generation of dye-sensitised solar cells: tandem and plasmonic solar cells
Kitchen, Dr Marcus J	ARF	Monash University	DP110101941	Low dose methods for detecting early lung disease using x-ray phase contrast imaging.
Mangan, Dr Niamh E	ARF	Monash University	DP110103616	The role of a novel protein, interferon epsilon, in reproductive tract immunity
Neild, Dr Adrian P	ARF	Monash University	DP110104010	Acoustic trapping for life science applications
Neville, Dr Suzanne M	ARF	Monash University	DP110104071	Molecular based materials for nanoscale technology
Watt, A/Prof Helen M	ARF	Monash University	DP110100472	Participation in mathematics and science careers: longitudinal study of motivational and contextual predictors
Zhao, Dr Chuan	ARF	Monash University	DP110102569	Tuning the electrolytes for high efficiency solar splitting of water
Burton, Dr Edward D	ARF	Southern Cross University	DP110100519	A new paradigm for the accumulation and persistence of metastable iron sulphides in sulphidic soils
Langmore, Dr Naomi E	ARF	The Australian National University	DP110101966	Cuckoo - host coevolution: a model system for investigating the impact of climate change on interspecific interactions and biodiversity

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Piper, Dr Philip J	ARF	The Australian National University	DP110101097	The archaeological and biological foundations of Southeast Asia, 2500 to 1000 BC
Takahashi , Dr Shunichi	ARF	The Australian National University	DP110102364	Understanding the mechanisms of thermal acclimation in the symbiotic algae (Symbiodinium) within cnidarian corals
Tiu, Dr Alwen F	ARF	The Australian National University	DP110103173	Evidence-based frameworks for security protocol verification
Baumert, Dr Mathias	ARF	The University of Adelaide	DP110102049	Novel computational tools for the analysis of sympathetic nervous system activity
Gruetzner, A/Prof Frank S	ARF	The University of Adelaide	DP110105396	Evolution and function of sex chromosomes and genes in mammalian reproduction
Hutchinson, Dr Mark R	ARF	The University of Adelaide	DP110100297	Toll Like Receptor signalling as a mediator of sex differences in pain, opioid and alcohol action
Garoni, Dr Timothy M	ARF	The University of Melbourne	DP110101141	Design, analysis and application of Monte Carlo algorithms in statistical mechanics
Kearney, Dr Michael R	ARF	The University of Melbourne	DP110102813	An integrated mechanistic model of species' responses to environmental change: from individual responses to range shifts and beyond
Wintle, Dr Brendan A	ARF	The University of Melbourne	DP110103737	From prediction to action: Responding to rapid ecosystem shifts under climate change
Hornberger, Dr Michael	ARF	The University of New South Wales	DP110104202	Make up your mind! - Dissociating the roles of orbitofrontal cortex and striatum in human decision making
Chenoweth, Dr Stephen F	ARF	The University of Queensland	DP110101048	A genomic approach to understanding the maintenance of genetic variation under sexual selection
Marshall, Dr Dustin J	ARF	The University of Queensland	DP110103529	Understanding the ecological effects of genetic diversity: causes, consequences and relative importance
Olsen, Dr Seth C	ARF	The University of Queensland	DP110101580	How do biomolecules control excited-state dynamics?

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Zhang, Dr Xiwang	ARF	The University of Queensland	DP110103533	High performance multifunctional hierarchical structured membrane for water processing
Miller, Dr Kristie L	ARF	The University of Sydney	DP110100486	A theory of theory choice
Coward, A/Prof David M	ARF	The University of Western Australia	DP110102501	Real-time signal processing and distributed robotic telescope networking for co-detection of gravitational waves and their optical counterparts
Mian, Dr Ajmal S	ARF	The University of Western Australia	DP110102399	Active multispectral computer vision for defence and security
Shellie, Dr Robert A	ARF	University of Tasmania	DP110104923	A field-portable comprehensive multidimensional gas chromatograph
Higgins, Dr Michael J	ARF	University of Wollongong	DP110104359	Synergistic nanostimulation of nerve cells using atomic force microscopy technology
Mozer, Dr Attila J	ARF	University of Wollongong	DP110101369	Next generation excitonic solar cells using advanced charge generation concepts: setting the new efficiency benchmark