

## 2010-2011 (Round 2)

Australian researcher	Title of research project	Host researcher
Associate Professor Ian Anderson University of Western Sydney	New insights into the eucalypt: <i>Pisolithus symbiosis</i> via bioinformatics analysis of transcriptomic and genomic data.	Professor Francis Martin INRA, Nancy France
Dr Justin Boddey Walter and Eliza Hall Institute of Medical Research	Protein export by malaria parasites during liver cell infection.	Dr Maria Mota Institute of Molecular Medicine Portugal
Dr Jason Bragg CSIRO	Linking systems biology and population genetics to understand complex trait evolution in stable and variable environments.	Professor Dr Andreas Wagner University of Zurich Switzerland
Dr Michael Caley Australian Institute of Marine Science	Regional variation of the effects of global change on marine ecological communities.	Professor Jean-Marc Guarini Oceanological Observatory of Banyuls France Dr Nicolas Loeuille University of Paris France
Dr David Clifford CSIRO	Novel chromatogram alignment methods for metabolomics in grape and wine research.	Dr Ron Wehrens Istituto Agrario di San Michele All'Adige (IASMA) Italy
Dr Claudio Delle Piane CSIRO	Low frequency elastic properties of shales under in-situ conditions.	Professor David Mainprice Swiss Federal Institute of Technology (ETH) Switzerland
Dr Bryan Fry University of Melbourne	Temperature specific adaptations of Antarctic octopus venoms.	Dr Dessi Georgieva University of Hamburg Germany
Dr Roslyn Gleadow Monash University	New approaches to limiting the expected increases in toxicity of the tropical crop cassava in response to climate change.	Professor Doyle Mckey Universite de Montpellier II France Professor Birger Moller University of Copenhagen Denmark
Associate Professor Andrew Hill University of Melbourne	Investigating the role of the prion protein as a receptor for Abeta oligomers.	Professor Catia Sorgato University of Padova Italy

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Dr Vera Ignjatovic University of Melbourne	The effect of ageing on the changes in platelet proteome.	Dr Angel Garcia Alonso University of Santiago de Compostela Spain
Dr Dianne Jolley University of Wollongong	Metals toxicity in marine microalgae: understanding the effect of metal exposure on the lipid composition of algal cell membranes.	Dr Helene Hegaret Institut Universitaire Europeen De La Mer France Assistant Professor Edouard Kraffe Université de Bretagne Occidentale France
Dr Claudia Keitel University of Sydney	Development of a field-based online measurement system for studying the transport and allocation of carbon in plants and soil.	Professor Dr Arthur Gessler Leibniz Centre for Agricultural Landscape Research Germany
Dr George Khairallah University of Melbourne	Gas-phase uni- and bi-molecular studies on metallic and organometallic systems.	Professor Jean-Claude Tabet Université Pierre et Marie Curie France
Dr Travis Klein Queensland University of Technology	Bioprinting of functionalised hydrogels for zonal cartilage tissue engineering.	Dr Jos Malda University Medical Centre Utrecht Netherlands
Dr Jeffrey Leis Australian Museum	Behaviour, ontogeny, dispersal and connectivity in marine fish populations.	Dr René Galzin Université de Perpignan France
Dr Fabio Luciani University of New South Wales	The evolutionary epidemiology of rapidly mutating viruses.	Dr Samuel Alizon Génétique et Evolution des Maladies Infectieuses France
Professor Barbara Messerle University New South Wales	Rational Design of Bimetallic Catalysts for Efficient Synthesis.	Professor Odile Eisenstein Institut Charles Gerhardt France Professor Stuart Macgregor Heriot-Watt University UK
Dr Brett Murphy University of Tasmania	Using dynamic global vegetation models to predict the long-term response of northern Australian savannahs to fire management and global environmental change.	Professor Steven Higgins Goethe University of Frankfurt Germany

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Dr Joanna O'Toole Monash University	Health based targets for drinking and recycled water guidelines.	Dr Ana De Roda Husman National Institute for Public Health and the Environment Netherlands Professor Gertjan Medema Watercycle Research Institute Netherlands
Dr Kara Perrow University of Wollongong	Investigating the Protective effect of PAI-2 in Cancer	Professor Gunilla Hoyer-Hansen Copenhagen University Hospital Denmark
Dr Gianina Ravenscroft University of Western Australia	New frontiers towards improving muscle function for genetic skeletal muscle diseases.	Professor Kay Davies University of Oxford UK Dr Coen Ottenheijm VU University Medical Centre Netherlands
Dr Jonathan Rhodes University of Queensland	Integrating landscape ecology and landscape genetics for biodiversity conservation	Dr Len Thomas University of St Andrews UK
Dr Melanie Rug Waler and Eliza Hall Institute of Medical Research	Ultrastructural characterisation of parasite-induced membraneous structures in the malaria-infected red blood cell.	Dr Marek Cyrklaff University of Heidelberg Germany Dr Friedrich Frischknecht University of Heidelberg Germany
Dr Sebastian Sardina Royal Melbourne Institute of Technology	Approximation techniques for behaviour composition.	Professor Giuseppe De Giacomo Sapienza Università di Roma Italy
Dr Colin Simpfendorfer James Cook University	Developing analytical techniques to study movement and behaviour of acoustically monitored marine organisms.	Dr Esben Moland Institute of Marine Research Norway
Dr Fengwei Xie University of Queensland	Starch-based multilayer nanocomposite materials	Professor Luc Avérous University of Strasbourg France
Associate Professor Firuz Zare Queensland University of Technology	High intensity ultrasound systems for biomedical and industrial applications.	Mr Peter Weber Fraunhofer Institute for Biomedical Technique Germany

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Researcher	Project	Host Institution
Dr David Coward University of Western Australia	Smart data analysis tools with applications to the France-Australia robotic telescope network, satellite and gravitational observatory data analysis.	Dr Catherine Man Centre Nationale de la Recherche Scientifique France
Associate Professor Peter Davis RMIT University	Thermostats and thermodynamic temperature far from equilibrium.	Professor David Jou Universitat Autònoma de Barcelona Spain
Professor Bernard Degnan University of Queensland	The evolution of animal multicellularity: Defining critical genomic innovations leading to the emergence of self-nonsel self recognition and immunity.	Dr Inaki Ruiz-Trillo Universitat de Barcelona Spain Professor Pedro Martinez Universitat de Barcelona Spain
Dr Heloise Gibb La Trobe University	The colonisation ability of forestry-intolerant species: A core factor for conservation in fragmented forest landscapes during climate change.	Professor Joakim Hjalten Swedish University of Agricultural Sciences Sweden
Dr Christian Grillet University of Sydney	Active 2D photonic crystal micropillars, a new platform for reconfigurable optofluidic devices.	Associate Professor Pedro Rojo-Romeo Institut de Nanotechnologies de Lyon France Dr Pierre Kern Laboratoire d'Astrophysique Observatoire de Grenoble France
Dr Rosanne Guijt University of Tasmania	Evaluation of a new but simple manufacturing method to improve sensitivity in contactless conductivity detection.	Professor Peter Hauser University of Basel Switzerland
Dr Christian Guttman Monash University	Building an agent-based microsimulation to investigate collaborative models in complex and open systems.	Professor Magnus Boman Stockholm University Sweden
Professor Gustaaf Hallegraeff University of Tasmania	Climate change and ocean acidification: Will coccolithophorids be winners or losers?	Professor Phillip Reid Sir Alistair Hardy Foundation for Ocean Science UK
Professor John Hartnett University of Western Australia	Development of ultra-low noise frequency transfer for atomic clocks using a cryogenic sapphire oscillator.	Dr Giorgio Santarelli Observatoire de Paris France
Dr John Hooper Queensland Museum	Progressing collaboration of the DNA Barcoding of Life (MarBOL) and Porifera Tree of Life (PorTOL) projects.	Professor Gert Woerheide Ludwig-Maximilians-Universität München Germany
Professor Kerry Hourigan Monash University	Cardiovascular and respiratory flows: Understanding and control.	Dr Thomas Leweke CNRS France

Dr Mark Hutchison Northern Territory Geological Survey	Age determinations of deep mantle diamonds from Juina, Brazil.	Professor Graham Pearson University of Durham UK
Dr Baohua Jia Swinburne University of Technology	Direct laser writing in quantum dot nanocoposties: From 3D active photonic crystals to 3D active metamaterials.	Professor Nikolay Zheludev University of Southampton UK
Dr Tim Karl University of New South Wales	Maternal infection: Part of the “two-hit hypothesis” of schizophrenia.	Professor Joram Feldon Swiss Federal Institute of Technology (ETH) Switzerland Professor Stephan von Hoersten Friedrich Alexander University Germany
Professor Sergei Kuzenko University of Western Australia	New superconformal theories and their applications.	Professor Ulf Lindstrom Uppsala University Sweden
Dr Sherie Ma University of Melbourne	Electrophysiological and neurochemical characterisation of neurons that respond to relaxin-3 in the medial septum in anaesthetised and unanaesthetised rats.	Professor Jacques Epelbaum Inserm France
Dr Graham Marshall Macquarie University	3-dimensional chip-based quantum information systems.	Professor Jeremy O'Brien University of Bristol UK
Professor Donald McNaughton Monash University	Spatial and intensity enhanced Raman microspectroscopy and imaging within single cells.	Professor Janina Kneipp Humbolt University zu Berlin Germany Dr Jens-uwe Grabow Gottfried Wilhelm Leibniz Universitat Germany
Professor Karol Miller University of Western Australia	Biomechanical modelling of brain diseases.	Professor Dimos Poulikakos Swiss Federal Institute of Technology (ETH) Switzerland
Dr Shannon Notley Australian National University	Tuneable adhesion between particles in water mediated by adsorbed polymer layers.	Professor Simon Biggs University of Leeds UK Professor Mark Rutland KTH Sweden
Dr John Pimanda University of New South Wales	Transcriptional networks regulating blood stem cell development.	Dr Bertie Gottgens Cambridge Institute for Medical Research UK
Dr John Provis University of Melbourne	Developing glass-ceramics to valorise fly ashes.	Professor Ange Nzihou Ecole des Mines d'Albi- Carmaux France
Dr Justin Seymour Flinders University	Microbial behaviour and the marine DMSP cycle.	Dr Rafel Simo Institut de Ciencies del Mar Spain

Dr Ilya Shadrivov Australian National University	Nonlinear chiral metamaterials.	Professor Nikolay Zheludev University of Southampton UK Dr Pavel Belov Queen Mary University of London UK
Dr Jason Sharples University of New South Wales	Analysing complex combustion processes: Combustion wave stability and eruptive fire behaviour of bushfires.	Professor John Dold University of Manchester UK Professor Domingos Vegas Universidade de Coimbra – Polo II Portugal
Dr Andrew Try Macquarie University	Designed chiral frameworks for the synthesis of self-structured bridged silsesquioxanes.	Dr Michel Wong Chi Man Ecole Nationale Supérieure de Chimie de Montpellier France
Professor John Wade University of Melbourne	Novel synthetic oligonucleotide analogues and their peptide conjugates for therapeutic applications.	Dr Michael Gait MRC Laboratory of Molecular Biology UK
Dr Nicole Webster Australian Institute of Marine Science	Exploring the impact of climate change on microbial composition and function in a model marine symbiosis.	Professor Michael Wagner University of Vienna Austria Dr Ute Hentschel University of Würzburg Germany
Dr Kerrie Wilson University of Queensland	Conservation planning in a dynamic world.	Professor Niels Strange University of Copenhagen Denmark
Dr Annette Worthy University of Wollongong	Mathematical modelling of reconfigurable circuits based on nematic liquid crystals.	Dr Noel Smyth University of Edinburgh Scotland Professor Gaetano Assanto University of Rome Italy

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Researcher	Project	Host Institution
Dr David Abdo Department of Fisheries	Hidden diversity in the waters of the western Mediterranean sea.	Dr Mikel Becerro Centre for Advanced Studies (CSIC) Spain
Dr Lisa Alleva Australian National University	Establishing an accurate method for quantification of the inflammatory protein High Mobility Group Box 1 (HMGB1).	Dr Reinhard Voll Universitat Erlangen-Nuremberg Germany
Dr Fernando Alonso-Marroquin University of Queensland	3D Discrete Element Modelling of geological materials: merging molecular dynamics and computational geometry.	Professor Dr Stefan Luding University of Twente Netherlands Professor Frederic Donze Grenoble Joseph Fourier University France
Dr Virginia Best University of Sydney	Auditory grouping and cochlear implants.	Dr Bernhard Laback Austrian Academy of Sciences Austria
Dr Helen Blanchard Griffith University	Probing carbohydrate-recognition by proteins that are critical in orchestrating disease.	Professor Anne Imberty Centre de Recherches sur les Macromolecules Vegetales (CERMAV-CNRS) France
Dr Anna Brooks Southern Cross University	Body perception: neural correlates of gender discrimination.	Professor Olaf Blanke Brain Mind Institute Switzerland
A/Professor Michael Brown University of Adelaide	Novel in vivo targeting of dead tumour cells exerts potent bystander killing effects.	Professor Richard Begent Cancer Research UK Targeting and Imaging UK
Dr Scott Brown University of Newcastle	Integrating mathematical models of human cognition with neurophysiological data from functional magnetic resonance imaging.	A/Professor Eric-Jan Wagenmakers University van Amsterdam Netherlands
Dr Ashley Buckle Monash University	High throughput analysis of autoantigen-antibody interactions using SPR imaging.	Professor Malcolm Buckle Centre National de la Recherche Scientifique France
Dr Conrad Burden Australian National University	Developing practical algorithms for microarray data from physico-chemical models.	Dr Hans Binder Universitat Leipzig Germany Dr Enrico Carlom Institute for Theoretical Physics Belgium Professor Simon Tavaré University of Cambridge UK

Dr Olivier Buzzi University of Newcastle	X Ray Micro Tomography of natural Australian expansive soils.	Professor Gioachino Viggiani University Joseph Fourier France
Professor Chris Carter University of Tasmania	Nutrition based strategies for fish meal and oil replacement in aquaculture feeds.	Professor Gro-Ingunn Hemre National Institute of Nutrition and Seafood Norway
Professor Arne Dahle University of Queensland	Shear behaviour of solidifying aluminium alloys.	Professor Michel Suery Science et Ingenierie des Materiaux et Procedes (SIMaP) France
Dr Pierre Dilda University of New South Wales	Identification of cancer patients that will better respond to treatment with GSAO.	Professor Alfonso Pompella University of Pisa Medical School Italy
Associate Professor Mark Downton University of Wollongong	Tracing evolutionary transitions among the Hymenoptera, using mitochondrial genome sequences.	Professor Birgit Schlick-Steiner University of Natural Resources and Applied Life Sciences Austria Dr Florian Steiner University of Natural Resources and Applied Life Sciences Austria
Dr Russell Drysdale University of Newcastle	Developing the capacity in Australia for measuring the isotopic composition of speleothem fluid inclusions for palaeotemperature reconstruction.	Dr Hubert Vonhof Vrije Universiteit Amsterdam Netherlands
Associate Professor Qipeng Guo Deakin University	Unique insights into polymer structure using spectroscopic imaging.	Professor Sergei Kazarian Imperial College London UK Dr Geoffrey Moggridge University of Cambridge UK
Professor Vadim Kamenetsky University of Tasmania	Application of a single-crystal X-ray and other microbeam techniques to compositions of mantle and crustal fluids included in minerals and glasses.	Professor Leonid Dubrovinsky University of Bayreuth Germany
Dr Sergei Kozlov University of Queensland	Recruitment of ATM kinase to the sites of DNA damage induced by heavy ions.	Dr Burkhard JAKOB Gesellschaft für Schwerionenforschung Germany
Dr Kypros Kypri University of Newcastle	Investigation of performance biases in clinical trials of health behaviour interventions.	Dr Jim McCambridge Department of Public Health and Policy England
Dr Bradley Ladewig ARC Centre for Functional Nanomaterials	Platform technologies for the rapid development of high performance nanocomposite membranes.	Professor Suzana Nunes GKSS Research Centre Germany Dr Wilhelm Meulenber Forschungszentrum Juelich GmbH Germany



Dr Justin Leontini Monash University	Numerical simulation of transitions and instabilities in fluid flow.	Dr Michael le Bars Institut de Recherche sur les Phénomènes Hors France
Dr Mike Manefield University of New South Wales	The role of redox potential in carbon flow in microbial communities.	Dr Tillman Leuders Institute of Groundwater Ecology Germany Dr David Schleheck University of Konstanz Germany
Dr Neilson Martin Curtin University of Technology	Educational outcomes for children with Attention Deficit Hyperactivity Disorder (ADHD).	Professor Peter Tymms University of Durham UK
Professor Dougal McColloch RMIT University	Developing tools for exploring the nano-world.	Professor David Cockayne University of Oxford UK
Adjunct Professor Nunzio Motta Queensland University of Technology	Growth of nanotubes on patterned substrates.	Professor Maurizio de Crescenzi Universita' di Roma Tor Vergata Italy
Dr Simon Moulton ARC Centre of Excellence for Electromaterials Science	Aligned carbon nanotube biomaterial structures.	Professor Eric Anglaret Universite Montpellier II France Dr Philippe Poulin Centre de Recherche Paul Pascal France
Professor Paul Mulvaney University of Melbourne	Plasmonic superstructures: light coupling and sensing.	Professor Javier de Abajo Instituto de Optica Spain
Associate Professor John Murray University of New South Wales	Identification of mechanism affecting stability and clearance rates of hepatitis B virions in chronically infected individuals and by using the uPA chimera mouse model of infection with hepatitis B viruses.	A/Professor Jorg Petersen Universitätsklinikum Hamburg-Eppendorf Germany
Dr Dragomir Neshev Australian National University	Nonlinear photonics, plasmonics and metamaterials.	Professor Thomas Pertsch Friedrich Schiller University Jena Germany
A/Professor Graham Nicholson University of Technology Sydney	Developing peptide toxins as biopesticides and therapeutics.	Dr Pierre Escoubas Institute de Pharmacologie Moleculaire et Cellulaire France
Professor Stephen Powles University of Western Australia	Unravelling herbicide resistance evolution and mechanisms in plants.	Dr Xavier Reboud Institut National De La Recherche Agronomique France
Dr Andrei Rode Australian National University	X-ray probing of transient state of matter excited by ultrafast laser pulses.	Dr Antoine Rousse Laboratoire d'Optique Appliquee France

Dr Frances Separovic University of Melbourne	Synchrotron radiation circular dichroism studies of antimicrobial peptides.	Professor Bonnie Wallace University of London UK Professor Anthony Watts University of Oxford UK
Associate Professor Sergey Shabala University of Tasmania	Revealing mechanisms of osmotic stress signalling by combining MIFE and confocal imaging microscopy techniques.	Professor Stefano Mancuso University of Florence Italy
Dr Jan Slapeta University of Sydney	Iron requirements of <i>Chromera velia</i> .	Professor Jean-Michel Camadro Institut Jacques Monod France
Dr Daniel Terno Macquarie University	Applications of non-completely positive maps to quantum tomography.	Professor Karol Zyczkowski Jagellonian University Poland
Dr Miriam Welgampola Royal Prince Alfred Hospital	Extra-ocular muscles mediating the sound-evoked vestibulo-ocular reflex.	Professor Krister Branterg Karolinska Hospital Sweden
Dr Duanne White Macquarie University	Novel application of in situ cosmogenic <sup>14</sup> C to assess the influence of clast recycling on our understanding of the history of the East Antarctic Ice Sheet.	Professor Paul Bishop University of Glasgow Scotland
Dr Jane Williamson Macquarie University	The impact of ocean acidification on early life history characteristics of marine invertebrates.	Dr Sam Dupont University of Gothenburg Sweden Professor Jon Havenhand University of Gothenburg Sweden
Dr Elaine Wong University of Melbourne	Compact VCSEL base-stations for optical-wireless integrated networks.	Professor Markus Christian Amann Technical University of Munich Germany
Dr Dong-yang WU CSIRO Materials Science and Engineering	Develop fundamental understanding on fracture properties and healing mechanism of novel self-healing epoxy systems and their composite laminates for structural applications.	Professor Monika BAUER Fraunhofer Institute Germany
Dr John Zaunders University of New South Wales	Identification of SIV-specific follicular helper T cells in lymph nodes during acute SIV infection in Macaques.	Dr Jerome Estaquier Institut National de la Sante et de la Recherche France
Dr Hala Zreiqat University of Sydney	Engineered articular cartilage using Novel composite 3D scaffolds.	Professor Veronique Miggony Universite Paris Nord France Professor Patrick Netter Laboratoire de Pharmacologie et de Physiopathologie Articulaire France