

# Support for international collaborations

The objectives of the Academy's program of international scientific and technological collaborations are to improve Australian access to science and technology and to increase awareness of Australian research.

The Academy's program gives Australian researchers the opportunity to collaborate with foreign colleagues, to widen research perspectives and experience, to exchange ideas, to be recognised in the international arena, to gain information and knowledge of techniques that will stimulate and advance Australian research and to be involved in large international projects.

The Academy's international programs are structured into four sections: short-term visits to Europe, North America and Asia, and long-term postdoctoral fellowships. The programs support collaborative research between professional Australian scientists and technologists and their colleagues in Europe, Korea, Japan, China, Taiwan, the US, Canada and Mexico. The Academy also administers postdoctoral fellowships with Japan.

The programs, which provide funds for living and travelling costs, are funded as part of the Australian Government Department of Innovation, Industry, Science and Research's International Science Linkages – Science Academies Programme. The French Embassy continues to generously provide travel funds for the top six grant recipients selected to visit France under the Europe program. Full details of all programs are available at: [www.science.org.au/internat/programs](http://www.science.org.au/internat/programs)

The following researchers were supported in 2007.

## Asia

### China

Researcher	Project	Host institution
Dr Sai Tsang Boris Choy University of Technology Sydney	Bayesian statistical methods for estimating loss reserving in insurance.	Professor Taizhong Hu University of Science and Technology of China
Dr Yue Huang University of New South Wales	Characterising the phenotypes of a novel causative dementia gene (PD9).	Professor Sheng Di Chen Chinese Academy of Sciences Institute of Health Science
Dr Wei Liu University of Western Australia	Semantically enriched communication between robots.	Professor Xiaoping Chen University of Science and Technology of China
Dr Shirley Zhiqi Shen CSIRO Manufacturing and Materials Technology	Development of nanoparticles/polymer composites for optimised tribological properties.	Professor Fengyuan Yan Chinese Academy of Sciences Lanzhou Institute of Chemical Physics

Researcher	Project	Host institution
Dr Tara Walker University of Queensland	Characterisation of a hippocampal stem cell population.	Professor Zhi-Qi Xiong Chinese Academy of Sciences Laboratory of Neurobiology of Disease

## Japan Society for the Promotion of Science bilateral programs

Researcher	Project	Host institution
Dr Alecia Bellgrove Deakin University	Developing a protein probe to differentiate marine algal dispersal potential.	Dr Masakazu Aoki University of Tsukuba
Associate Professor Michael Burton University of New South Wales	Millimetre wave astronomy with the NANTEN2 and Mopra telescopes.	Professor Yasuo Fukui University of Nagoya
Associate Professor Eric Hu Deakin University	Photocatalytic reduction of carbon dioxide with water into methane and hydrogen.	Professor Seizo Kate Mie University
Dr Mohan Jacob James Cook University	Investigations on the ultra thin film organic polymers.	Professor Mitsumasa Iwamoto Tokyo Institute of Technology
Professor Alan Jeary University of Western Sydney	High-amplitude non-linear damping estimation for tall buildings.	Professor Yukio Tamura Tokyo Polytechnic University
Dr Jonathan Peake University of Queensland	Roles of Toll-like receptors in impaired inflammation of aging skeletal muscle.	Dr Shuichi Machida Tokai University
Dr Anh Vo University of Melbourne	Improved retrieval effectiveness through the use of metabolic pathways.	Professor Hiroshi Mamitsuka Kyoto University

## Korea

Researcher	Project	Host institution
Dr Sammy Chan University of New South Wales	Mechanical properties of nanometric-particulate-reinforced aluminium matrix composites fabricated by squeeze casting.	Professor Ik-Min Park Pusan National University
Dr Kyla Finlay Primary Industries Research Victoria	A phylogenetic and biogeographical study of the genera of Leptophlebiidae (Ephemeroptera) within and between the Australian, Oriental and East Palaearctic regions.	Professor Yeon Jae Bae Seoul Women's University

Researcher	Project	Host institution
Professor Richard Hartley Australian National University	Verifiable optimality conditions for geometric problems in computer vision.	Dr Yongduek Seo Sogang University

### Australia–Korea Early Career S&T Researchers Programme

Researcher	Project	Host institution
Dr Nathan Faggian University of Melbourne	Magnetic resonance microscopy of the human brain in vivo: A new approach using high-resolution high field magnetic resonance imaging.	Professor Zang-Hee Cho Gachon University of Medicine and Science
Dr Peter King CSIRO Materials Science and Engineering	Mechanism of bonding of cold spray copper particles to an aluminium substrate.	Professor Changhee Lee Hanyang University
Mr Sajjad Mahmood La Trobe University	Incorporating business perspective in a component-based system development requirements analysis process.	Professor Kyo-Chul Kang Pohang University of Science and Technology
Dr Gianluca Ranzi University of Sydney	Behaviour and design of innovative composite steel-concrete systems.	Professor Sang-Hyo Kim Yonsei University
Dr Sihai Zhou University of Wollongong	Study of MgB <sub>2</sub> superconductor.	Professor Jaimoo Yoo Korea Institute of Materials Science

## Taiwan

Researcher	Project	Host institution
Professor Marek Bialkowski University of Queensland	Miniaturisation of antenna using metamaterials for notebook application.	Dr Eddie Tsai Wistron NeWeb Corporation
Associate Professor Yi-Ping Phoebe Chen Deakin University	Advances in knowledge discovery for complex biomedical data, structural and functional analysis.	Professor Ping-Chiang Lyu National Tsing Hua University
Dr Naveen Chilamkurti La Trobe University	Video streaming over wireless networks using cross-layer techniques.	Professor Ce-kuen Shieh National Cheng-kung University
Associate Professor Richard Lai La Trobe University	Improving software quality using software reliability models.	Associate Professor Sun Jen Huang National Taiwan University of Science and Technology
Dr Stephen Moore University of New South Wales	Developing a metric system for pursuing a recycling oriented society.	Dr Hong-wen Ma National Taiwan University
Dr Barry Russell Department of Natural Resources, Environment and Arts Northern Territory	Taxonomy and evolution of the lizardfish genus Saurida.	Dr Shao Kwang-Tsao Academia Sinica
Dr Chanh Tran La Trobe University	Image formation in partially coherent imaging.	Professor Fu-rong Chen National Tsing Hua University

## Europe

Researcher	Project	Host institution
Associate Professor Kenneth Amos University of Melbourne	Predicting scattering and capture cross sections for nucleons and alpha particles by nuclei.	Professor Luciano Canton University of Padova Italy
Dr Gunther Andersson Flinders University	Electrostatic forces in free-standing foam films.	Dr Cosima Stubenrauch University College Dublin Ireland
Dr Fiona Blyth University of Sydney	Early life pain experiences and chronic pain in adolescents.	Professor Gary MacFarlane University of Aberdeen UK
Professor Neil Bose Australian Maritime College	Preparation of Explorer AUV for polar missions.	Dr Vincent Rigaud Institut français de Recherche pour l'Exploitation de la Mer France

<b>Researcher</b>	<b>Project</b>	<b>Host institution</b>
Associate Professor Abdelmalek Bouazza Monash University	Biogas (greenhouse gas) migration through cover systems of waste containment facilities.	Professor Hywel Thomas Cardiff University UK
Dr Anna Brooks Southern Cross University	Neural correlates of self/other processing: A multisensory neuroscientific approach.	Professor Olaf Blanke Ecole Polytechnique Fédérale de Lausanne Switzerland
Associate Professor Mark Buntine University of Adelaide	Liquid microdroplet technologies for the investigation of molecular conformation and solute-solvent binding energies.	Professor Bernd Brutschy Frankfurt University Germany
Professor Hubert Chanson University of Queensland	Turbulence generated by air entrainment in two-phase flows.	Dr Pierre Lubin Ecole Nationale Supérieure de Chimie et de Physique de Bordeaux France
Dr Jun Chen University of Wollongong	Well-defined nanoporous polymer scaffolds for tissue engineering.	Associate Professor Martin Vigild Technical University of Denmark Denmark
Dr Andre Chiaradia Phillip Island Nature Park	Changes in foraging behaviour of little penguins in face of global warming.	Dr Yan Ropert-Coudert Institut Pluridisciplinaire Hubert Curien France
Dr Joshua Cinner James Cook University	Measuring resilience in coastal communities dependent on coral reefs.	Dr Carl Folke Stockholm Resilience Centre Sweden
Dr Ian Colditz CSIRO Livestock Industries	Regulation of neutrophil migration into inflamed skin.	Dr Antal Rot Novartis Institutes for BioMedical Research Austria
Dr David Coward University of Western Australia	New signal processing algorithms with applications to gravitational wave detectors on Earth and in space.	Dr Catherine Man Observatoire de la Côte d'Azur France
Dr Anton Desyatnikov Australian National University	Self-trapped optical vortices in continuous and discrete periodic photonic structures.	Professor Dr Albert Ferrando Universidad De Valencia Spain
Dr Andrew Dicks University of Queensland	Fast-ion conducting ceramics for fuel cells and gas separation.	Professor Kevin Kendall University of Birmingham UK

Researcher	Project	Host institution
Dr Heath Ecroyd University of Adelaide	Unravelling the role of molecular chaperones in protein misfolding diseases.	Professor Carol Robinson University of Cambridge UK
Associate Professor Michael Ferry University of New South Wales	Understanding grain boundary mobility during recrystallisation of Al alloys using in situ annealing experiments.	Professor Julian Driver École Nationale Supérieure des Mines de Saint-Étienne France
Dr Daniel Franklin University of Western Australia	New approaches to identifying human remains: 3D morphometrics in forensic science.	Professor Paul O'Higgins University of York UK
Dr Alister Graham Swinburne University of Technology	Hubble space telescope imaging of the Coma galaxy cluster - spiral galaxies.	Professor Marc Balcells Instituto de Astrofísica de Canarias Spain
Dr Andrea Griffin University of Newcastle	Are big-brained species less vulnerable to habitat alterations? A comparative analysis of extinction risk in Australian birds.	Dr Daniel Sol Autonomous University of Barcelona Spain
Dr Rainer Haberberger Flinders University	Determination of the function of sphingosine kinase 1 in the development of pulmonary hypertension in COPD.	Dr Martin Witzernath Charite Medical University Germany
Dr Emily Hilder University of Tasmania	Polymer nanoparticles and their assembled supracolloidal monolithic structures for applications in separation science.	Associate Professor Stefan Bon University of Warwick UK
Dr Marc in het Panhuis University of Wollongong	NANO-INKS: Electroactive composite materials for inkjet printing.	Dr Wolfgang Maser Instituto De Carboquímica Spain
Dr David Hurwood Queensland University of Technology	Documenting genetic variation within and between edible flat oysters, <i>Ostrea angasi</i> and <i>O. edulis</i> : One species or two?	Dr Sylvie Lepague Institut français de Recherche pour l'Exploitation de la Mer France
Dr Patrick Johnston Swinburne University of Technology	Assessing dynamic cortical interactions during face processing using steady state probe topography in conjunction with magnetoencephalography.	Dr Jason Tipples University of Hull UK
Dr Dianne Jolley University of Wollongong	Development of a passive in-situ sampling device to quantify biologically available selenium and arsenic contamination in aquatic sediments.	Dr Hao Zhang University of Lancaster UK

<b>Researcher</b>	<b>Project</b>	<b>Host institution</b>
Dr Timothy Jones CSIRO Plant Industry	Genetic improvement of wine grapevine rootstocks for environmentally and economically sustainable viticulture.	Dr Nathalie Ollat Institut des Sciences de la Vigne et du Vin France
Dr George Koutsantonis University of Western Australia	Functional nanomaterials.	Associate Professor Jack Harrowfield Université Louis Pasteur France
Associate Professor Warrick Lawson University of New South Wales	Surveys of proto-planetary disks in the nearest young star clusters using the Spitzer space telescope.	Dr Jeroen Bouwman Max-Planck-Institut für Astronomie Germany
Professor Peter Majewski University of South Australia	Surface engineered particles.	Professor Siegfried Weber University of Applied Science Germany
Dr Brad Marsh University of Queensland	Towards next generation 3D imaging of cells and molecules: Defining new instrument.	Professor Wolfgang Baumeister Max-Planck-Institut für Biochemie Germany
Dr Andrey Miroshnichenko Australian National University	Dynamical tunability of photonic structures with liquid crystals.	Dr Etienne Brasselet Université Bordeaux 1 France
Dr Joshua Mylne University of Queensland	Structural studies of proteins involved in the epigenetic regulation of FLC.	Professor Caroline Dean Institute for Molecular Bioscience Norwich
Dr Eugene Nalivaiko Flinders University	Prevention of stress-induced cardiac arrhythmias by serotonin-1A agonists.	Associate Professor Andrea Sgoifo University of Parma Italy
Dr Julie Nigro CSIRO Molecular and Health Technologies	The development and analysis of advanced biological scaffolds to support the growth of adult bone marrow derived mesenchymal stem cells.	Professor Alberto Passi University of Insubria Italy
Associate Professor David Phillips Monash University	Activin in the sheep pituitary gland: Relevance to reproductive hormone control.	Dr Catherine Taragnat Institut National De Le Recherche Agronomique France
Dr Gianluca Ranzi University of Sydney	Dynamic behaviour of innovative composite steel-concrete flooring systems.	Professor Andrea Dall'Asta Universita di Camerino Italy

Researcher	Project	Host institution
Dr Daniel Real Ferreiro University of Western Australia	Cultivation of <i>Bituminaria bituminosa</i> var. <i>albomarginata</i> under low-rainfall Mediterranean climatic conditions as a pasture and forage legume for grazing or hay production.	Mr Enrique Correal Instituto Murciano de Investigacion y Desarrollo Agrario y Alimentario Spain
Dr Gary Rosengarten University of New South Wales	Interaction of nanofluids with surfaces: Reducing pumping power while increasing heat transfer.	Professor Dimos Poulikakos Eidgenossische Technische Hochschule Zurich Switzerland
Dr Anna Smith University of Tasmania	Investigating the repelling properties of tannins in the bark of plantation grown <i>Pinus radiata</i> to browsing mammals.	Dr Steve Woodward University of Aberdeen Scotland
Dr Janette Smith University of Newcastle	A comparison of methods to remove the CNV from post-S2 electrical potentials of the brain.	Professor Rolf Verleger Universität Luebeck Germany
Professor Julio Soria Monash University	Investigation into the structure of near-wall turbulence of turbulent boundary layer flow using time-resolved 3C-3D Tomographic Particle Image Velocimetry.	Professor Michel Stanislas Ecole Centrale de Lille France
Dr Nigel Tomkins CSIRO Livestock Industries	The development of audio capture technologies for determining grazing behaviour in free ranging cattle.	Dr Ian Hulbert BlueSky Telemetry Ltd Scotland
Dr Ryan Wilkinson University of Tasmania	Investigating growth and welfare benefits of sustained exercise in farmed Atlantic salmon.	Professor Felicity Huntingford University of Glasgow UK
Professor Mark Wilson University of Wollongong	Cellular trafficking of clusterin and its potential roles in apoptosis, phagocytosis and vaccine delivery.	Professor Pascale Jeannin Université de Angers France
Dr Mike Wong CSIRO Land and Water	Linkage to advance the development of a rapid and cost-effective method to map soil properties at high-spatial resolution using multiple sensor technologies.	Dr Annamaria Castrignano Agriculture Research Council – Agronomic Research Institute Italy
Dr Guangyong Zhou Swinburne University of Technology	Rare-earth ion doped lithium niobate crystal for active nonlinear photonic devices.	Professor Daniel Jaque Universidad Autonoma De Madrid Spain

## Cooperation in the field Of Scientific and Technical research (COST) 2007–08

Researcher	Project	Host institution
Associate Professor Tomaso Aste Australian National University	Econophysics and complex systems.	Professor Rosario Mantegna Universita di Palermo, Italy
Dr Naveen Chilamkurti La Trobe University	A new cross-layer optimisation framework for multimedia transmission over wireless networks.	Dr Yevgeni Koucheryavy Tampere University of Technology, Finland
Dr Tiziana Di Matteo Australian National University	Econophysics and complex systems.	Professor Rosario Mantegna Universita di Palermo, Italy
Dr Con Doolan University of Adelaide	Large eddy simulation for complex geometries.	Professor Lars Davidson Chalmers University of Technology, Sweden
Dr Marc in het Panhuis University of Wollongong	Determining relations between preparation-structure-properties in polymer composite materials: Establishing an alliance with COST P12 action.	Dr Joachim Loos Eindhoven University of Technology, Netherlands
Professor Michael Jones Murdoch University	Exploiting <i>C. elegans</i> genomics to define the parasitome of plant parasitic nemotodes.	Dr John Jones Scottish Crop Research Institute, UK
Professor Wieslaw Krolikowski Australian National University	Disorder creates order: Managing light in non-linear disordered media.	Professor Cornelia Denz Westfälische Wilhelms-Universität Münster, Germany
Associate Professor Sam Reisenfeld University of Technology, Sydney	Cognitive radio networks.	Professor Roberto Verdone Universita Degli Studi di Bologna, Italy
Professor Halina Rubinsztein-Dunlop University of Queensland	Photoporation of cells and probing of viscoelastic properties of cells using rotating optical tweezers.	Professor Kishan Dholakia University of St Andrews, UK
Professor Peter Timms Queensland University of Technology	Relationships between chlamydial strains in animals and humans: A genomic sequencing approach.	Professor Konrad Sachse Institute of Molecular Pathogenesis, Germany

## North America

Researcher	Project	Host institution
Dr Anthony Ashton University of Sydney	Exploring the role of the human specific isoform of the thromboxane receptor (TP beta) in breast cancer.	Associate Professor Rachel Hazan Albert Einstein College of Medicine, USA
Associate Professor Dale Bailey University of Sydney	Measuring tumour uptake and therapeutic dose from radionuclides using SPECT/CT.	Dr John Humm Memorial Sloan Kettering Cancer Center, USA
Dr Lindsay Bell CSIRO Sustainable Ecosystems	Soil carbon sequestration in pasture/cropping systems.	Professor Martin Entz University of Manitoba, Canada
Dr Kathy Belov University of Sydney	From marsupials and monotremes to big cats and lizards: Tracing the evolutionary history and genetic diversity of the vertebrate Major Histocompatibility Complex.	Professor Scott Edwards Harvard University, USA
Associate Professor Christopher Bertram University of New South Wales	Collaboration on investigation of microlymphatic function.	Professor James Moore Jr. Texas A&M University, USA
Dr Matias Braccini Department of Primary Industries, Victoria	Characterisation of shark nursery areas: Concepts and methodologies.	Dr John Carlson National Marine Fisheries Service, USA
Dr Ralf Dietzgen Department of Primary Industries and Fisheries, Queensland	Advanced fluorescence microscopy to study host-microbe interactions in living plant cells.	Associate Professor Michael Goodin University of Kentucky, USA
Professor Robin Gasser University of Melbourne	The genomics of parasitic nematodes: Toward new intervention strategies.	Dr Adam Felsenfeld National Institutes of Health, USA
Dr Neil Gribble James Cook University	Expansion and validation of a linked ecosystem trophic model of the Great Barrier Reef, World Heritage Area.	Professor Villi Christensen University of British Columbia, Canada
Professor Jim Hone University of Canberra	Evaluation of wildlife monitoring.	Professor Charles Krebs University of British Columbia, Canada
Dr Gavin Huttley Australian National University	Estimating genic interactions from the extent of evolutionary dependence.	Dr Robin Knight University of Colorado, Boulder, USA
Dr Gunasegaran Karupiah Australian National University	In vivo imaging to visualise cell-cell interaction and viral antigen presentation to T cells.	Dr Jonathan Yewdell National Institutes of Health, USA

Researcher	Project	Host institution
Dr Kamaljit Kaur James Cook University	Developing techniques to assess the role of ecosystem services from tropical rainforests in human well-being.	Professor Robert Costanza The Gund Institute for Ecological Economics, USA
Dr Jian Li Monash University	Investigation of adaptive resistance to colistin in multi-drug-resistant <i>Pseudomonas aeruginosa</i> .	Professor Robert Hancock University of British Columbia, Canada
Dr David Lupton Monash University	Electrochemically assisted palladium catalysed chemistry.	Professor Kevin Moeller Washington University in St Louis, USA
Dr Peter Pivonka University of Melbourne	Mathematical modelling of signalling networks describing metastasis formation in bone.	Professor Gregory Mundy Vanderbilt University, USA
Dr Kim Plummer La Trobe University	Enhanced genetic manipulation techniques for molecular dissection of Sclerotinia, the cause of devastating, white rot disease.	Dr Jeffrey Rollins University of Florida, USA
Dr Ahmed Regina CSIRO Plant Industry	Investigate starch biosynthetic machinery in wheat endosperm through characterisation of enzyme complexes in starch biosynthetic enzyme mutants.	Dr Michael Emes University of Guelph, Canada
Dr Simon Ruffel Australian National University	Study of the kinetics of nano-void formation in silicon using positron annihilation spectroscopy.	Professor Peter Simpson University of Western Ontario, Canada
Dr Abd-Krim Seghouane Australian National University	Computer colonic polyps detection based on spherical wavelet descriptors.	Associate Professor Hiro Yoshida Harvard Medical School and Massachusetts General Hospital, USA
Dr Devanshi Seth University of Sydney	To investigate the direct effect of alcohol on molecular and cellular interactions in normal human hepatocyte-stellate cell co-culture system.	Associate Professor Manuela Neuman In Vitro Drug Safety, Toxicology and Biotechnology Laboratory, Canada
Dr Paul Smith Australian Wine Research Institute	The role of polysaccharide – polyphenol interactions in influencing the polyphenol concentrations of Australian red wines.	Dr James Kennedy Oregon State University, USA

Researcher	Project	Host institution
Dr Milton Speer University of New South Wales	Declining twentieth century coastal rainfall over New South Wales and southeast Queensland: The role of significant changes in the variability of the larger scale atmospheric circulation.	Professor Peter Lamb Co-operative Institute for Mesoscale Meteorology Studies, USA
Dr Matthew Taylor University of New South Wales	Establishing an ecological basis for stocking density of carangid species.	Dr David Zeimann The Oceanic Institute, USA
Dr Glen Ulett University of Queensland	Genetic analysis of anti-streptococcal immunity.	Professor David Briles University of Alabama at Birmingham, USA
Dr Rongping Wang Australian National University	Probe bonding structure of Ge-As-Se glasses by high resolution x-ray photoelectron spectroscopy.	Professor Himanshu Jain Lehigh University, USA
Dr Adam Wittek University of Western Australia	Mesh-free method for neurosurgery simulation.	Associate Professor Simon Warfield Children's Hospital & Harvard Medical School, USA
Dr Trent Woodruff University of Queensland	Protective actions of novel anti-inflammatory agents in neurotoxin-damaged neuronal cultures mimicking Parkinson's disease.	Dr Thiruma Arumugam Texas Tech University Health Sciences Center, Canada
Dr Andrew Zalesky University of Melbourne	Precise charting of neural fibre trajectories in the human brain.	Associate Professor Carl-Fredrik Westin Harvard Medical School, USA
Dr Xi Zhang CSIRO Petroleum	Modelling of the effects of structural heterogeneities on fluid flow for maximising gas production.	Professor David Pollard Stanford University, USA

## East Asia and Pacific Summer Program for US Graduate Students

Researcher	Project	Host institution
Ms Theresa Andrejack Drexel University	Geosynthetic-reinforced stone columns.	Professor Abdelmalek Bouazza Monash University
Ms Emilie Bess University of Illinois	Mitochondrial genomics of bark lice ( <i>Psocoptera</i> ).	Dr Stephen Cameron CSIRO Entomology
Mr Robert Cramer University of Alabama	Personality functioning in criminal defendants and civil litigants.	Dr Jack White University of South Australia

<b>Researcher</b>	<b>Project</b>	<b>Host institution</b>
Mr Gregory Crosswhite University of Washington	Applying variational techniques to find translationally invariant matrix product representations of ground states for infinite one-dimensional quantum spin systems.	Dr Andrew Doherty University of Queensland
Mr Steven Dow Georgia Institute of Technology	Simulating complex computing applications using human hidden wizards.	Dr Bruce Thomas University of South Australia, Mawson Lakes Campus
Mr William Dowd University of California, Davis	Proteomic analysis of mechanisms of hypoxia and anoxia tolerance in epaulette sharks.	Dr Gillian Renshaw Griffith University, Gold Coast Campus
Ms Larisa Grawe DeSantis University of Florida	Effects of climate change on Australian megafauna from the Late Quaternary to the Present: Evidence from stable isotopes of herbivorous mammals at Cuddie Springs.	Dr Stephen Wroe and Dr Judith Field University of New South Wales, and The Electron Microscope Unit, University of Sydney
Ms Gwyndolen Harburg University of Texas Southwestern Medical Centre	Involvement of pro-proliferative pathways in mouse mammary stem cell proliferation and self-renewal.	Dr Jane Visvader Walter and Eliza Hall Institute of Medical Research
Mr Joshua Harrell University of Colorado Health Sciences Center	Role of hormones on lymphatic vessel development and breast cancer lymphatic metastasis.	Professor Darryl Russell University of Adelaide
Mr Nikolas Hrabe University of Washington	X-ray computed tomography characterisation of porous titanium for biomedical applications.	Professor Mark Hoffman University of New South Wales
Mr Ying Hu Rice University	Development of a depth sensitive reflectance spectroscopy using nanoshells as contrast agents.	Professor Halina Rubinsztein- Dunlop and Dr Timo Nieminen University of Queensland
Ms Claudia Jones University of California, Berkeley	Relating lipids to biomarkers: A study of the timescale and mechanisms of lipid diagenesis.	Dr Jochen Brocks Australian National University
Mr Jason Ladner Stanford University	Examining the genetic basis of coral morphospecies: A microarray-based approach.	Dr Madeleine van Oppen Institute of Marine Science, Townsville
Mr Christopher Lew University of California, Riverside	Pure-silica-zeolite LTA nanoparticles for low-dielectric constant films.	Dr Huanting Wang Monash University

<b>Researcher</b>	<b>Project</b>	<b>Host institution</b>
Ms Laura Lunsford North Carolina State University	Linkages and social networks of knowledge producers and innovators: In the case of Australia.	Professor Tim Turpin and Dr Richard Woolley University of Western Sydney
Ms Carla Ng Northwestern University	Anthropogenic impacts of drill spoil deposition on deep-sea benthic communities.	Dr Adele Pile and Dr Murray Thomson University of Sydney
Ms Erika Nyhus University of Colorado, Boulder	The role of item and context information in episodic recognition memory.	Dr Simon Dennis, Dr John Dunn and Dr Daniel Navarro University of Adelaide
Mr Paul Supawanich University of California, Berkeley	Investigation of transportation modes and their effects on land use.	Professor Phil Charles University of Queensland
Mr Jason Wither University of California, Santa Barbara	Far-field annotation in outdoor augmented reality.	Professor Bruce Thomas University of South Australia
Mr Brian Yates University of California, Berkeley	Microbiological aspects of foaming in anaerobic wastewater digesters.	Dr Robert Seviour and Dr Elizabeth Seviour La Trobe University, Bendigo