Australia-India Senior Visiting Fellowships 2012-2013

33 leading Australian senior researchers have been awarded scientific grants to undertake important research under the Australia-India Senior Visiting Fellowships 2012-2013.

The program supports Australian senior researchers from the public, not-for-profit and commercial sectors to facilitate targeted research collaboration, short visiting lectureships and networking activities.

The Fellowships are supported by the Australia-India Strategic Research Fund (AISRF), a platform for bilateral collaboration in science jointly managed and funded by the governments of Australia and India (www.innovation.gov.au/science/internationalcollaboration/aisrf/Pages/default.aspx).

<table>
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<tr>
<th>Researcher</th>
<th>Project</th>
<th>Host Institution(s)</th>
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</table>
| Professor Kamal Alameh  
Edith Cowan University | Material science and nanotechnology to design and develop biosensors for medical applications. | Professor P. H. Pawar  
D. Y. Patil University |
| Associate Professor Jayashree Arcot  
University of New South Wales | Research collaboration, networking and lectureship in the area of nutrient absorption using in vitro cell culture techniques. | Professor R. B. Narayanana  
Anna University |
| Associate Professor Paul Baird  
University of Melbourne | Identification of risk factors for age-related eye diseases important in India and Australia. | Dr Subhabrata Chakrabarti  
L V Prasad Eye Institute |
| Professor Claude Bernard  
Monash University | Targeted nanomedicine as a novel approach to treat autoimmune diseases. | Professor Shantikumar Nair  
Amrita University |
| Professor Suresh Bhargava  
RMIT University | Mercury emissions monitoring and mitigation: online sensing and catalytic oxidation of mercury for cleaner industrial processes. | Dr Rajiv Kumar  
Tata Chemicals Ltd  
Dr Benjaram Reedy  
Indian Institute of Chemical Technology |
| Associate Professor Chris Blanchard  
Charles Sturt University | Building links between Australia and Indian Pulse industries. | Mrs Darly Thomas  
Central Food Technological Research Institute |
| Professor Marc Cohen  
RMIT University | Environmental toxins, lifestyle, genetics and health and an evaluation of Ayurvedic detox practices to remove environmental toxins and improve health in patients with chronic disease. | Professor Bhushan Patwardhan  
Symbiosis International University  
Professor Dr Prabhakar Ranjekar  
Bharati Vidyapeeth Deemed University |
| Professor Maxwell Crossley, FAA  
University of Sydney | Merging Australian and Indian chemistry: Synthesis of porphyrin-carbohydrate and porphyrin-bidyridyl hybrids for drug discovery and the establishment of a joint chemistry research network. | Dr Lalal Mishra and Dr Vinod Tiwardi  
Banaras Hindu University |
| Professor Michael Dopita, FAA  
Australian National University | The energy source of active galaxies. | Professor Prajval Shastri  
Indian Institute of Astrophysics |
| Associate Professor Roberto Ferrez-Weinberg  
Monash University | Geological and contemporary deformation in the Higher Darjiling-Sikkim Himalaya: understanding the link between geological history and seismic hazard. | Professor Malay Mukul  
Indian Institute of Technology Bombay |
| Professor Sanjay Garg  
University of South Australia | Scientific collaboration in development of novel multi-prevention technologies for HIV/AIDS, Sexually Transmitted Infections and Conception. | Dr Nomita Chandhoik  
Indian Council of Medical Research |
| Dr Reena Ghildyal  
University of Canberra | Elucidating the nuclear transport mechanisms in Entamoeba histolytica. | Professor Alok Battacharya  
Jawaharlal Nehru University |
| Dr Dharmappa Hagare  
University of Western Sydney | Strengthening the collaboration between the University of Western Sydney and Indian Institute of Science, Bangalore. | Professor Mohan Kumar  
Indian Institute of Science |
| Professor Richard Harvey, FAA  
Victor Chang Cardiac Research Institute | Endogenous cardiac stem cells and prospects for augmented cardiac regeneration. | Professor Jyotsna Dhawan  
National Centre for Biological Sciences  
Dr Rakesh Mishra  
Centre for Cellular and Molecular Biology |
| Professor Xu Huang  
University of Canberra | An empirical study of Elliptical Curve Cryptography (ECC) for secured satellite communication. | Professor Pritam Shah  
Sir Venketeshwara College of Engineering |
| Dr Markandeya Jois  
La Trobe University | Prevention and treatment of obesity, hypertension and diabetes by herbs, spices and medicinal plants. | Professor Ramanijini Gowda  
University of Agricultural Sciences  
Subba V Madhunapantula  
JSS University |
| Professor Saulius Juodkazis  
Swinburne University of Technology | Nano-textured surfaces for sensing and light harvesting. | Dr Mukesh Ranjan  
Institute for Plasma Research  
Professor Deepak Mathur  
Tata Institute of Fundamental Research |
| Professor Peter Koopman, FAA  
University of Queensland | Sex determination in vertebrates: exceptions that prove the rule. | Professor Rajava Raman  
Banaras Hindu University |
| Professor Dinesh Kumar  
RMIT University | Automatic retinal images analysis for diabetic retinopathy. | Professor Jayadeva Jayadeva  
Indian Institute of Technology Delhi |
| Dr Kuntala Lahiri-Dutt  
Australian National University | Towards new analytical studies of resource for 21st century. | Professor Srikumar Chattopadhyayy  
Centre for Earth Science Studies |
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<tr>
<th>Name</th>
<th>University/M Epitome</th>
<th>Research Area</th>
<th>Supervisor/Institution</th>
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<tbody>
<tr>
<td>Dr Richard Lai</td>
<td>La Trobe University</td>
<td>Devising correct specifications for global software development projects for offshore developers.</td>
<td>Professor Lalchandani Kayprakash International Institute of Information Technology</td>
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<td>Professor Parmod Kapur Amity University</td>
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<td>Professor Rajib Mall Indian Institute of Technology Kharagpur</td>
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<td>Professor Jiuyong Li</td>
<td>University of South Australia</td>
<td>Confidential document sharing by automatic document sanitization.</td>
<td>Dr Mukesh Nohania IBM India</td>
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<tr>
<td>Associate Professor Chee Lim</td>
<td>Deakin University</td>
<td>Computational intelligence models and their application to data analysis.</td>
<td>Professor P Balasubramaniam Gandhigram Rural Institute</td>
</tr>
<tr>
<td>Professor Suresh Mahalingam</td>
<td>Griffith University</td>
<td>Integrative approaches to combating Chyungunya Chronic Disease.</td>
<td>Professor Shobha Broor All India Institute of Medical Sciences</td>
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<td>Professor Udaykumar Ranga Jawaharlal Nehru Centre for Advanced Science Research</td>
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<td>Professor Ross McKenzie</td>
<td>University of Queensland</td>
<td>A simple model for hydrogen bonding.</td>
<td>Professor Elangannan Arunan Indian Institute of Science</td>
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<tr>
<td>Dr Jawahar Patil</td>
<td>University of Tasmania</td>
<td>Control and production of an alien species of fish: bridging the environmental and economic dichotomy through genetic approaches.</td>
<td>Professor Y Basavaraju Karnataka Veterinary, Animal and Fisheries Sciences University</td>
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<td>Dr B Senthikumaran University of Hyderabad</td>
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<td>Professor Robert Pressey, FAA</td>
<td>James Cook University</td>
<td>Reconciling biodiversity conservation and livelihoods in India.</td>
<td>Professor Kamaljit Bawa Ashoka Trust for Research in Ecology and the Environment</td>
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<td>Assistant Professor Kartik Shankar Indian Institute of Science</td>
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<td>Dr Ravi Tiwari</td>
<td>Murdoch University</td>
<td>Understanding signal transduction systems in symbiotic root nodule bacteria to interact with their host and the environment.</td>
<td>Professor H Gehlot Jai Narain Vyas University</td>
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<td>Professor Sandhya Viswaswariah Indian Institute of Science</td>
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<td>Professor Vijay Varadharajan</td>
<td>Macquarie University</td>
<td>Trust enhanced security techniques for data storage in Cloud.</td>
<td>Professor K Gopinath Indian Institute of Science</td>
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<td>Professor Emanuele Viterbo</td>
<td>Monash University</td>
<td>Wireless network coding: practical lattice code constructions.</td>
<td>Professor B. Sundar Rajan Indian Institute of Science</td>
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<tr>
<td>Professor Cuie Wen</td>
<td>Swinburne University of Technology</td>
<td>Research on physical and mechanical properties of advanced nanostructured materials.</td>
<td>Professor Vijay Srivastava Banaras Hindu University</td>
</tr>
<tr>
<td>Professor Mark Willcox</td>
<td>University of New South Wales</td>
<td>Assessment of the contribution of genetic factors to corneal infection.</td>
<td>Dr Subhabrata Chakrabarti L V Prasad Eye Institute</td>
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<td>Associate Professor Stephan Winter</td>
<td>University of Melbourne</td>
<td>Smart interaction for Wayfinding Support.</td>
<td>Professor Amithaba Mukerjee Indian Institute of Technology Kanpur</td>
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