

Summary of Linkage Projects Applications for Funding to Commence in 2006

South Australia

The Flinders University of South Australia

LP0669838 Dr JE Craig; Dr NH Voelcker; Mr MJ Plunkett

Approved Project Title Bio-MEMS eye sensor for continuous monitoring of intraocular pressure

2006 : \$20,000

2007 : \$40,000

2008 : \$40,000

2009 : \$20,000

Primary RFCD 3299 OTHER MEDICAL AND HEALTH SCIENCES

APA(I) Award(s): 1

Partner Organisation(s)

Ellex Medical Pty Ltd

Administering Institution The Flinders University of South Australia

Project Summary

Glaucoma is a leading cause of preventable blindness, particularly prevalent in the 60+ population, caused by elevated intraocular pressure (IOP). Current treatment to monitor and prevent glaucoma-related blindness is by lowering IOP with eye-drops, laser therapy or surgery. This project directly benefits our aging population by ensuring independence and quality of life, whilst reducing long-term medical and social costs. By incorporating nanotechnology with ophthalmology we will provide an economic solution to long-term, reliable, home-monitoring of IOP. An implantable IOP sensor, will identify patients requiring more invasive treatment compared with those with less aggressive disease, leading to better health resource utilisation.

LP0668941 Dr S Kleindorfer

Approved Project Title Avian Recruitment: The Key to Maintaining Biodiversity

2006 : \$32,500

2007 : \$70,000

2008 : \$65,000

2009 : \$27,500

Primary RFCD 2707 ECOLOGY AND EVOLUTION

APA(I) Award(s): 1

Partner Organisation(s)

Department for Environment and Heritage

Nature Foundation SA Inc

South Australian Museum

Administering Institution The Flinders University of South Australia

Project Summary

With increased global trade, the threat to native species from the spread of disease and parasites requires exploration. This is particularly relevant as we link fragmented habitats through vegetation corridors at a national level, thereby creating potential pathways for disease transmission and predator access. This study will contribute to Research Priority 4: Safeguarding Australia from invasive diseases and pests. It will do this by generating a detailed understanding of the link between nesting success, parasite transmission, and immune response in endemic Australian birds in geographically separate populations. The results will be used to inform the establishment of vegetation corridors in the proposed study sites in the next decade.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0669272 Prof MA Luszcz; Dr RB Walker

Approved Project Title The dynamics of spousal relationships in very late life: transitions, psychological health and longevity

2006 : \$37,170

2007 : \$74,340

2008 : \$74,340

2009 : \$37,170

Primary RFCD 3801 PSYCHOLOGY

APDI Dr RB Walker

Partner Organisation(s)

Office for the Ageing

ECH Inc

Relationships Australia SA

Alzheimers Australia SA

Administering Institution The Flinders University of South Australia

Project Summary

This research will provide a rare insight into the dynamics of very-long term successful marriages. It will also provide an understanding of the dyad in ageing well. In a society where a large percentage of marriages end in divorce, this work has the potential to identify individual differences factors that are conducive to sustaining the marital relationship. In addition, an examination of how couples from different socio-economic backgrounds navigate later life in their own homes or during key late life transitions will also be beneficial for those individuals or policy makers planning for these transitions.

LP0669168 Prof K Mack; Prof SL Roach Anleu

Approved Project Title Judicial Officers and Workload Allocation

2006 : \$18,507

2007 : \$37,897

2008 : \$40,437

2009 : \$21,047

Primary RFCD 3903 JUSTICE AND LEGAL STUDIES

Partner Organisation(s)

Magistrates Court, South Australia

Magistrates Court

Magistrates Court, Northern Territory

Australian Institute of Judicial Administration

Administering Institution The Flinders University of South Australia

Project Summary

Courts and judges constitute a key social and legal institution with a distinctive obligation to maintain the rule of law. The knowledge produced by this research will benefit the judiciary, the courts, government and the public they serve. Research findings about the allocation of judicial work will be used by courts and government to shape policy in recruitment, selection and professional development. It will assist individual judicial officers to manage their workloads and provide valuable information for courts in managing independent professionals. This research will improve public and scholarly understanding of Australia's courts and will help sustain an institution essential for safeguarding Australia.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0669119 Prof JG Matisons; Dr M Ginic-Markovic; Dr SR Clarke

Approved Project Title **The Nanotechnology Desalination Research Project - Low Energy Desalination Membranes**

2006 : \$77,500

2007 : \$127,500

2008 : \$90,000

2009 : \$140,000

2010 : \$200,000

2011 : \$100,000

Primary RFCD 2505 MACROMOLECULAR CHEMISTRY

APA(I) Award(s): 1

Partner Organisation(s)

Wind Prospect Pty Ltd

Ocean Power Delivery Ltd

Administering Institution The Flinders University of South Australia

Project Summary

Population growth and global warming is rapidly increasing the strain placed on fresh water supplies.

Environmentally sustainable solutions to this water shortage need to be found urgently. This project will develop new, low energy desalination technologies which can be powered by renewable energy sources, to enable desalination to be widely applied with low environmental impacts. It addresses several national priorities: Water - a critical resource; Transforming existing industries; Overcoming soil loss, salinity and acidity; Responding to climate change and variability; Frontier technologies and Advanced materials.