

Summary of Linkage Projects Applications for Funding to Commence in 2006

Victoria

The University of Melbourne

LP0667563 Prof P Bardsley; Prof Sir J Mirrlees; Prof CR Plott; Mr GC Stoneham; Ms CC Thomas; Mr P Hughes; Dr L Gangadharan; Dr N Erkal; Mr C Beverly

Approved Project Title **Designing Innovative Allocation Mechanisms for Public Policy**

Project Title

2006 : \$150,000

2007 : \$105,000

2008 : \$117,000

Primary RFCD 3401 ECONOMIC THEORY

APA(l) Award(s): 1

Partner Organisation(s)

Victorian Department of Primary Industries

Victorian Department of Treasury and Cabinet

Victorian Department of Sustainability and Environment

Administering Institution The University of Melbourne

Project Summary

This project applies modern techniques of game theory, auction theory, and experimental economics to public policy design. It can deliver public benefits across a broad front by introducing and demonstrating a new policy design methodology to Australia, by delivering better policy design on specific projects, by building capacity, and by creating a network of collaborators including both University researchers and public sector policy experts.

LP0668208 Prof JI Borland; Dr Y Tseng; Dr RK Wilkins

Approved Project Title **Experimental evaluation of YP4 - Is 'joining up' services for homeless and jobless people a net benefit to society?**

2006 : \$79,255

2007 : \$75,000

2008 : \$85,000

Primary RFCD 3402 APPLIED ECONOMICS

Partner Organisation(s)

Hanover Welfare Service

Melbourne Citymission

Brotherhood of St Laurence

Loddon Mallee Housing Services

Administering Institution The University of Melbourne

Project Summary

This project will provide evidence on the social costs and benefits of programs that seek to 'join up' delivery of government services - with specific reference to young homeless jobseekers. This knowledge has direct application in future design of government policies on implementing programmes for government payment recipients with multiple sources of disadvantage. Furthermore, the project will provide a 'case study' demonstration of the capacity for not-for-profit organisations to independently undertake policy reform, and to implement that reform in a way that allows rigorous evaluation of its effects. The project will also extend research expertise in the area of program evaluation, particularly as applied in the Australian context.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0668059 Prof C Cameron; Mr JD Liberman

Approved Project Title **Litigation and Liability as Regulation to Reduce Tobacco Related Harm**

2006 : \$24,650

2007 : \$24,650

2008 : \$24,650

Primary RFCD 3901 LAW

APA(l) Award(s): 1

Partner Organisation(s)

The Cancer Council Victoria

Administering Institution The University of Melbourne

Project Summary

The new National Tobacco Strategy, signed in November 2004 by all Australian Governments, explains that successful tobacco control interventions bring major social and economic returns, including healthy and independent ageing, sustainable health care systems, a stronger economy, stronger communities, stronger families, improved indigenous health, and less harm from illicit drugs. The NTS acknowledges that regulation is a key tobacco control intervention. The research will explore and make recommendations about new regulatory approaches that have the capacity to substantially reduce the harm caused by tobacco, and to maximise the social and economic returns of tobacco control to the community.

LP0667931 A/Prof E Frydenberg; Ms EA Freeman; Dr E Care; Ms M Tobin; Mrs B Begg

Approved Project Title **Enhancing Wellbeing and Learning in Middle Years Classrooms**

2006 : \$80,000

2007 : \$62,000

Primary RFCD 3301 EDUCATION STUDIES

Partner Organisation(s)

Catholic Education Office

Administering Institution The University of Melbourne

Project Summary

Meaningful engagement in schooling promotes academic learning, social emotional wellbeing and healthy futures for young people. Achieving the positive engagement of all adolescent students in schooling is a significant educational challenge for Australia. This research project recognises that strong, caring and positive teacher-student relationships are critical to student engagement in Middle Years classrooms. The project will investigate the application of an evidence based framework of strategies and a professional learning model to support teachers in the promotion of positive learning relationships. The project will trial measures that could increase teacher capacity to promote learning and wellbeing through positive relationships.

LP0668022 Dr MJ Garde

Approved Project Title **Bininj Gunwok Lexicography Project**

2006 : \$74,340

2007 : \$74,340

2008 : \$74,340

Primary RFCD 3802 LINGUISTICS

APDI Dr MJ Garde

Partner Organisation(s)

Gundjehmi Aboriginal Corporation

Administering Institution The University of Melbourne

Project Summary

This project will make a contribution to Aboriginal language maintenance and documentation via lexicography. Only about 20 of the original 200 or so Aboriginal languages remain viable. Bininj Gunwok is one of these languages. Very few dictionaries exist for Australian languages and for those languages such as Bininj Gunwok which linguists class as 'non-Pama-Nyungan', only a handful of dictionaries are available. The resulting Bininj Gunwok dictionary and cultural encyclopaedia will have applications for education, Aboriginal health, community development, land management and environmental science in Kakadu National Park and western Arnhem Land as well as applications for cross-cultural communication.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0667795 A/Prof RB Gasser; Prof S Ranganathan; Dr I Beveridge; Dr AC Loukas

Approved Project Title Targeted mining for new drugs against parasitic nematodes of animals - a synergy of integrated, frontier technologies and a committed partnership with industry

2006 : \$100,000

2007 : \$74,000

2008 : \$67,000

Primary RFCD 3005 VETERINARY SCIENCES

Partner Organisation(s)

Genetic Technologies Limited (GTG)

Administering Institution The University of Melbourne

Project Summary

This project will: develop a quality scientific and technological program in national priority areas, leading to a strong basic research, new concepts and the enhanced international collaborative links; strengthen links between basic and applied research, and academia and industry; develop excellence via pan-Australian collaborations, resulting in a more efficient use of resources in a national and international context; enhance the skills-base in biology, biotechnology and bioinformatics; increase global visibility with increased investment in Australian science; improved animal welfare and production via better control of infectious diseases; commercial products with benefits to agricultural producers in regional and rural communities.

LP0668216 Dr LB Joubert; Dr CA Harvey; Dr S Ording-Jespersen; Dr E Cementon; Ms C Mihalopoulos

Approved Project Title Suicide prevention and management of deliberate self-harm: randomised control trial of an assertive engagement, brief psychotherapy and community linkage model

2006 : \$24,650

2007 : \$24,650

2008 : \$24,650

Primary RFCD 3801 PSYCHOLOGY

APA(I) Award(s): 1

Partner Organisation(s)

Western Hospital,

Administering Institution The University of Melbourne

Project Summary

Suicide is the second commonest cause of death by injury in Australia. Suicide prevention is an important public health priority but rates remain high. People who have previously attempted suicide are most likely to kill themselves. Most suicidal people attend emergency departments where they get inadequate treatment for their psychological and social problems and remain depressed and suicidal. This project will test the effectiveness of a new psychological and social treatment to reduce the depression and link suicidal people with community supports. If successful, this treatment could be provided in any emergency department and help decrease suicide rates in Australia.

LP0668042 Prof C Kulik; Dr M Brown; Dr C Cregan; Dr MI Metz

Approved Project Title Employment systems and organisational outcomes: Managing employee expectations through HRM practice

2006 : \$20,893

2007 : \$32,100

2008 : \$20,232

Primary RFCD 3502 BUSINESS AND MANAGEMENT

Partner Organisation(s)

AHRI

Administering Institution The University of Melbourne

Project Summary

This project contributes to our understanding of the factors that influence organisational effectiveness. Australian employers are facing competitive business conditions and changing demographics. In this challenging environment, employers and employees must develop a clear understanding of what they can expect from one another. Unfulfilled expectations can lead to workplace cynicism and have a negative effect on organisational performance. The project findings will help organisations become more competitive in the global marketplace by designing HRM practice configurations that are best fit to the needs of their employees and that establish converging expectations about the employment relationship.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0667872 A/Prof JA Lawrence; Prof K Laster

Approved Project Title Improving court processing of protection applications for young children in the Children's Court of

Project Title Victoria

2006 : \$51,445

Primary RFCD 3801 PSYCHOLOGY

Partner Organisation(s)

Victoria Law Foundation
Children's Court of Victoria

Administering Institution The University of Melbourne

Project Summary

The project applies collaborative expertise to improve "healthy starts" (National Research Priority Goal) for vulnerable children with child protection applications in their first 3 years. They need the courts to decide on means of protection and stability. For rural as well as urban areas, the project will identify factors that support or delay provision of stable environments for children needing security in their early years. The project provides an evidence base for analyses and case flow management. By analysing court processes, it contributes data on protection cases that are lacking in Australia. This will be a lasting system for the Children's Court that can be generalised to other age groups and jurisdictions.

LP0668092 Dr C Leckie; Prof R Kotagiri

Approved Project Title Defending Against Attacks on Internet-Based Telephone Services (Voice Over IP)

Project Title

2006 : \$58,000

2007 : \$58,000

2008 : \$58,000

Primary RFCD 2917 COMMUNICATIONS TECHNOLOGIES

Partner Organisation(s)

IntelliGuard I.T. Pty Ltd

Administering Institution The University of Melbourne

Project Summary

The telephone network is a critical platform for communication, used by all levels of society - government, the private sector and the general public. The shift to telephone services based on voice-over-IP technology holds the promise of significantly reducing costs for communication services. However, the Internet has long been plagued by a variety of network attacks. Reports of denial-of-service attacks, viruses and break-in attempts frequently appear in the world news. A major impediment to confidence in voice-over-IP services is the risk of attacks on its infrastructure, and the potential for using weaknesses in voice-over-IP infrastructure to launch attacks on the existing telephone network.

LP0668358 A/Prof MW Lightowlers; Dr LA Hinds; Dr DJ Jenkins

Approved Project Title Evaluation of the EG95 vaccine against hydatid infection in macropodid marsupials

Project Title

2006 : \$21,000

2007 : \$29,000

2008 : \$20,000

2009 : \$20,000

Primary RFCD 2799 OTHER BIOLOGICAL SCIENCES

Partner Organisation(s)

Parasitech

Administering Institution The University of Melbourne

Project Summary

A parasitic infection known as hydatids was introduced into Australia by Europeans and is now causing mortality in Australian wallabies and kangaroos, including amongst endangered species. A vaccine against the disease, that was developed in Australia for use in domestic livestock, is being evaluated to determine if it could be used to prevent hydatids closely monitored populations of endangered macropod marsupials, such as *Petrogale penicillata*.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0667490 Prof IM Mareels; A/Prof GF Egan; Dr KJ McDonell; Prof C Rae; Prof R Kotagiri

Approved Project Title **Data Management Technologies for the Magnetic Resonance Imaging e-Research Grid**

2006 : \$200,000

2007 : \$160,000

2008 : \$160,000

2009 : \$130,000

Primary RFCD 2801 INFORMATION SYSTEMS

APA(l) Award(s): 2

Partner Organisation(s)

Silicon Graphics Inc
Neurosciences Victoria

Administering Institution The University of Melbourne

Project Summary

Howard Florey Institute researchers will collaborate with SGI's file-systems engineering team. Substantial benefits are expected from the development of techniques to support centralized and distributed processing medical image datasets. Issues requiring research include file space allocation algorithms and caching strategies. The proposed rapid database access technologies aim at solving these problems in the medical imaging research context. The project attempts to 'improve data management for existing and new business applications'. This enhanced sharing of information will improve critical mass therefore fostering national and international collaboration.

LP0667552 Mr KJ Reeves; A/Prof AJ Mayne; Mr DP Bannear

Approved Project Title **Layers of meaning: Historical studies in central Victoria's regional heritage 1834-1950**

2006 : \$74,340

2007 : \$74,340

2008 : \$74,340

Primary RFCD 4301 HISTORICAL STUDIES

APDI Mr KJ Reeves

Partner Organisation(s)

Parks Victoria, Department of Sustainability and Environment

Administering Institution The University of Melbourne

Project Summary

This project will provide a deeper understanding of a region that is central to understanding Australian history during the nineteenth and twentieth centuries. It will also strengthen the social fabric of regional communities as local inhabitants will be better able to identify with their region, in the process providing them with a sense of place within their community. There will also be economic benefits including the development of infrastructure and increased employment opportunities that will flow from the development of a cultural tourism plan. This will provide an integrated strategy for interpreting and promoting central Victoria at international, national, state, regional and local levels.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0667968 Prof DA Rosenthal; Dr H Rowe; Dr S Mallett; Ms A Hardiman

Approved Project Title Understanding women's experiences of unplanned pregnancy and abortion

2006 : \$66,000

2007 : \$90,000

2008 : \$80,000

Primary RFCD 3212 PUBLIC HEALTH AND HEALTH SERVICES

Partner Organisation(s)

The Royal Women's Hospital

Victorian Health Promotion Foundation

Administering Institution The University of Melbourne

Project Summary

The economic, health and social costs to the Australian community of unplanned pregnancies and abortions constitute a public health concern of undoubted significance. Debates in both policy and public arenas are hampered by a lack of comprehensive reliable evidence about incidence of abortion and the factors underlying decisions to terminate unwanted pregnancies. Further, there is considerable variation among Australian states regarding abortion-related legislation. The data generated from this project will establish an evidence base, inform potential legislative change and monitor any effects, and improve delivery of appropriate health services and strategies to prevent unplanned pregnancies and their adverse consequences.

LP0667534 Prof RA Strugnell; A/Prof LE Brown; Prof GF Browning; Prof S Wesselingh; Dr AM Walmsley; Dr SR Webb; Miss ME Gahan

Approved Project Title Using transgenic plant-based production and delivery systems to develop an avian influenza vaccine

2006 : \$195,000

2007 : \$175,000

2008 : \$168,000

Primary RFCD 2708 BIOTECHNOLOGY

APDI Miss ME Gahan

Partner Organisation(s)

Dow AgroSciences LLC

Administering Institution The University of Melbourne

Project Summary

This project aims to provide proof-of-concept for the rapid production of plant-made vaccines of high strategic value to the poultry industry. Plant-made AI vaccines would help safeguard primary industries in Australia from exotic influenza strains and shield rural communities from the impact of stock losses. This collaboration will also contribute to the Molecular Farming industry by ensuring that Australian interests are considered as this frontier technology tackles the challenges of turning academic research into marketable products. The key features of an oral plant-made AI vaccine, including rapid and non-egg based production, also make this an attractive technology for the future development of swine and human influenza vaccines.

LP0667815 Dr J Van Buskirk; Dr JE Melville; Dr KM Parris; Dr JJ Austin; Dr MJ Littlejohn

Approved Project Title Human-induced changes in the genetic structure of amphibian populations

2006 : \$80,000

2007 : \$74,000

2008 : \$67,000

Primary RFCD 2707 ECOLOGY AND EVOLUTION

APA(I) Award(s): 2

Partner Organisation(s)

Museum Victoria

Administering Institution The University of Melbourne

Project Summary

This study will produce one of the first predictive models of the impact of humans on the genetic structure of animal populations. It will contribute to land-use planning in the greater Melbourne area, and support the regional action plan called Melbourne2030. It will promote active collaboration between universities and Museum Victoria, enriching our local intellectual community. The project will address current debates within landscape genetics, and strengthen Australia's international standing in landscape ecology. Several Australian undergraduate and PhD students will participate in cutting-edge science, which helps Australia maintain its prominent international reputation in these fields.

Summary of Linkage Projects Applications for Funding to Commence in 2006

LP0667891 Dr PA Veski; Dr IE Woodrow; Mr SJ Nicol; Dr JR Leathwick; Dr DM Forsyth; Dr DP Choquenot; A/Prof RJ Barker

Approved Project Title Restoring riverine ecosystems: effective model-based planning and monitoring

Project Title

2006 : \$130,000

2007 : \$125,000

2008 : \$130,000

Primary RFCD 3008 ENVIRONMENTAL SCIENCES

Partner Organisation(s)

Murray-Darling Basin Commission

Victorian Department of Sustainability & Environment

Administering Institution The University of Melbourne

Project Summary

Australia's riverine ecosystems are considerably degraded and require efficient and immediate attention to restore them to a sustainable condition. Restoration activities at all levels will benefit from the development of a robust framework that will improve understanding of restoration responses at both species and ecosystem levels. This will in turn enhance substantially the ability of managers of restoration projects to identify realistic goals and provide a context for rigorous evaluations of the effectiveness of management interventions. This will result in scarce resources for conservation being directed to efforts with the greatest ecological benefits for stressed Australian lowland rivers.

LP0667467 Dr EM Webster; Dr J Yong; Dr PH Jensen; Dr A Palangkaraya; Ms KC Collins

Approved Project Title Uncertainty and the success of innovation

Project Title

2006 : \$142,000

2007 : \$75,000

2008 : \$88,000

Primary RFCD 3402 APPLIED ECONOMICS

Partner Organisation(s)

IP Australia

Administering Institution The University of Melbourne

Project Summary

This proposal outlines an empirically-oriented project, with strong conceptual foundations, that will add significantly to our understanding of the barriers to successful commercial exploitation of innovations in Australia. There is currently no other applied work in this area in Australia of this scope and empirical content. Our approach adopts a rigorous approach to the measurement of innovation and performance, and looks at the effect of uncertainty on the relationship between the two. The results of this exercise will translate into both government and corporate policy.

LP0667605 Dr C Whitzman

Approved Project Title Gender, Local Governance, and Violence Prevention: Making the Links

Project Title

2006 : \$37,650

2007 : \$38,650

2008 : \$25,650

Primary RFCD 3101 ARCHITECTURE AND URBAN ENVIRONMENT

APA(I) Award(s): 1

Partner Organisation(s)

VicHealth - Victorian Health Promotion Foundation

Administering Institution The University of Melbourne

Project Summary

Violence results in enormous social and economic costs to individuals and to Australian society. Part of the problem is that crime and violence in public space, and violence in homes, are considered separate issues in research and policy. This project will pilot innovative integrated violence prevention programs in four local government areas (including one rural-urban fringe and one rural municipality). Training materials and workshops based on these programs will be developed that can inform local, state, and national violence prevention strategies in both urban and rural/regional areas.