

South Australia

The Flinders University of South Australia

DP0986226 Prof J Condon; Prof MA Luszcz; Dr G Ochiltree

Approved Project Title **A prospective study of the mental health of grandparents providing part-time child care for their preschool age grandchildren**

2009 : \$ 70,000

2010 : \$ 40,000

2011 : \$ 60,000

Primary RFCD 3212 PUBLIC HEALTH AND HEALTH SERVICES

Administering Organisation The Flinders University of South Australia

Project Summary

This project addresses national research priorities and will identify the characteristics of a high-risk subgroup of Australian grandparents for whom the childcare burden has a deleterious impact on health and well being. Results will enable development of improved approaches to education and awareness in health professionals and the lay community about this subgroup, facilitating early identification and intervention. The study will provide evidence-based guidance to policy makers about the most appropriate support services for grandparents involved in high levels of childcare, reducing their level of stress and improving the quality of the childcare they provide.

DP0984562 Dr M Halsey

Approved Project Title **Generativity in young male (ex)prisoners: caring for self, other, and future within prison and beyond**

2009 : \$ 91,000

2010 : \$ 99,000

2011 : \$ 133,000

2012 : \$ 138,000

2013 : \$ 40,903

Primary RFCD 3904 LAW ENFORCEMENT

Administering Organisation The Flinders University of South Australia

Project Summary

As strategic basic research, the project will provide practitioners and academics with much needed qualitative data on the social, cultural and emotional dimensions of incarceration and how these impact life within and beyond custody. Such knowledge is critical for developing policies and practices capable of meaningfully reducing the high rates of reincarceration in all Australian states and territories. Importantly, the focus on generativity offers a new conceptual lens through which to reconsider the philosophy and practice of imprisonment, and, more specifically, to prisoner management or 'through-care' with regard to those who constitute the majority of the prison population nationally and internationally (young males).

DP0988350 Prof JM Holledge; Prof JE Tompkins; Dr JJ Bollen

Approved Project Title **Ibsen Between Cultures: The Australian Experience**

2009 : \$ 45,000

2010 : \$ 55,000

2011 : \$ 24,000

Primary RFCD 4101 PERFORMING ARTS

Administering Organisation The Flinders University of South Australia

Project Summary

This project offers three benefits to the nation. It will enrich our understanding of the unique development of Australian spoken word drama by comparing research findings on the incorporation of Henrik Ibsen's plays in our dramatic canon with parallel investigations in China, India, and Bangladesh. It will create new knowledge about the way theatrical performances communicate ideas and modes of human expression across national boundaries, thus increasing our understanding of the global transmission of culture. The knowledge gained about intercultural creative production through this project, can be applied both to other areas of industrial production, and to Australian cultural diplomacy.

Summary of Discovery Projects Proposals for Funding to Commence in 2009

DP0985729 Dr EB Kemps; Prof M Tiggemann

Approved Project Title **Implicit cognitive processing of environmental food and eating cues in obese adults**

2009 : \$ 75,000

2010 : \$ 30,000

2011 : \$ 110,000

Primary RFCD 3801 PSYCHOLOGY

Administering Organisation The Flinders University of South Australia

Project Summary

Obesity is a major public health concern in Western countries, including Australia. In focusing on implicit cognitive processing of environmental food and eating cues, this project addresses a factor that has hitherto been neglected in obesity research. The inclusion of a component that specifically addresses food-related cognitions has the potential to dramatically improve the success of weight-loss programs. Accordingly, our research has clear potential benefit for Australian national health and well-being, consistent with Research Priority 2: Promoting and maintaining good health. It will also contribute to the international profile of Australian social science and provide valuable research training opportunities for students.

DP0988129 Dr JG Mitchell; Prof J Beardall; Prof R Lal; Prof FM Morel; Dr RJ Pillar; Dr PJ McGinn

Approved Project Title **Diatom frustules: nanostructures at the base of ocean food webs**

2009 : \$ 112,000

2010 : \$ 110,000

2011 : \$ 104,000

Primary RFCD 2707 ECOLOGY AND EVOLUTION

APD Dr RJ Pillar

Administering Organisation The Flinders University of South Australia

Project Summary

Molecules interacting with surfaces are fundamental to biological, chemical and physical processes, including desalination membrane design, lab-on-a-chip systems, industrial catalysis, bioremediation, neurophysiology and uptake of nutrients for incorporation into food webs. Here, we use diatoms as models for molecule-surface interactions to find basic principles that underlay all of these interactions. This research will train students and scientists and establish collaborations with leading international scientists in the field.

DP0985144 Dr Y Ootsuka; Prof WW Blessing

Approved Project Title **Ultradian rhythms in basal metabolism; relationship to thermoregulation, cardiovascular function and behavioural arousal**

2009 : \$ 130,000

2010 : \$ 90,000

2011 : \$ 90,000

Primary RFCD 3207 NEUROSCIENCES

Administering Organisation The Flinders University of South Australia

Project Summary

Results from this project will be of basic theoretical biological importance, and may well provide a foundation for understanding basal metabolic regulation and its link with cardiovascular function. Our findings may provide a new foundation for discovering strategies that alter basal metabolic rate in a manner that improves health and reduces the incidence of obesity related disease such as heart attack and stroke. Thus this research proposal is of special relevance to National Research Priority 2: Promoting and Maintaining Good Health. Obesity and obesity-related medical conditions particularly affect older people, so that our research is also highly relevant to National Research Priority 2 sub-areas: Ageing well, Ageing productively.

Summary of Discovery Projects Proposals for Funding to Commence in 2009

DP0988686 A/Prof DM Powers; Prof CR Clark; Dr KJ Pope; Em/Prof JO Willoughby

Approved Project Title **Heterodensity neuroimaging techniques for spatiotemporal identification and localization**

2009 : \$ 96,000

2010 : \$ 100,000

2011 : \$ 105,000

Primary RFCD 3803 COGNITIVE SCIENCE

Administering Organisation The Flinders University of South Australia

Project Summary

Australia is at the forefront of research that is taking brain imaging and interfacing out of the lab and into the field. The technology being developed is spawning applications in areas as diverse as health, education, defense and national security, and will lead to resolution of longstanding theoretical debates as well as enabling new breakthroughs in understanding the biological concomitants of psychological function. This is significant given the push to develop biometrics of psychological function with enhanced sensitivity and specificity in clinical diagnosis, along with defense applications in evaluation of critical personnel and training. It also opens up a range of applications for mental control of remote or prosthetic devices.

DP0988554 Dr L Seuront; Prof HE Stanley; Prof TJ Pedley; Dr M Koehl

Approved Project Title **Beyond oceanography: behavior as a tool to uncover ocean complexity**

2009 : \$ 200,000

2010 : \$ 135,000

2011 : \$ 130,000

2012 : \$ 105,000

2013 : \$ 105,000

Primary RFCD 2604 OCEANOGRAPHY

APF Dr L Seuront

Administering Organisation The Flinders University of South Australia

Project Summary

It is crucial that Australia remains a world leader in marine biology and ecology and continues to preserve the uniqueness of its marine environment through the development of integrated inter-disciplinary research projects. This project will open a new area of research at both the national and international levels through the first integrated approach of the behavioural mechanisms that rule the base of the ocean food web structures and functions. The present work is also expected to open new perspectives in fields such as biological oceanography, microbial ecology, plankton ecology, behavioural ecology through the exploration of previously untapped areas of research.

DP0988194 Dr FA Sukochev; Prof Q Xu; Prof VV Peller

Approved Project Title **Non-commutative analysis and differential calculus**

2009 : \$ 82,000

2010 : \$ 85,000

2011 : \$ 80,000

Primary RFCD 2301 MATHEMATICS

Administering Organisation The Flinders University of South Australia

Project Summary

This project is in an area of central mathematical importance and will lead to important scientific advances that will keep Australia at the forefront internationally in this field of research. There is an emphasis on international networking and we will collaborate with leading researchers in USA and France.

Summary of Discovery Projects Proposals for Funding to Commence in 2009

DP0986623 Prof M Tiggemann

Approved Project Title **Growing up too quickly? Body objectification in adolescent and pre-adolescent girls (teens and tweens)**

2009 : \$ 90,000

2010 : \$ 90,000

2011 : \$ 90,000

2012 : \$ 80,000

Primary RFCD 3801 PSYCHOLOGY

Administering Organisation The Flinders University of South Australia

Project Summary

The premature sexualisation of girls is seen as a major public health issue in Australia by government, welfare agencies and the general public alike. While the sexually objectified presentation of children in the media is well documented and unarguable, the consequences for individual psychological well-being are not. The empirical data base provided by the present project will allow the identification of girls who might be particularly vulnerable (or resilient) to the effects of objectification and sexualization, as well as suitable targets for intervention. Thus the research seeks to contribute to the well-being of adolescent and pre-adolescent girls (National Research Priority No. 2).