

# Summary of Linkage Projects Proposals for Funding to Commence in 2009

## Victoria

### Victoria University

**LP0990532** A/Prof MC Duke; Dr T Vasiljevic; Dr P Sanciolò; Dr E Ponnampalam

**Approved Project Title** **Innovative zero-energy membrane technologies to reduce water consumption in the dairy industry**

**2009 :** \$ 13,070

**2010 :** \$ 26,140

**2011 :** \$ 26,140

**2012 :** \$ 13,070

**Primary RFCD** 2906 CHEMICAL ENGINEERING

APA(I) Award(s): 1

#### **Collaborating/Partner Organisation(s)**

Dairy Innovation Australia Ltd

**Administering Organisation** Victoria University

#### **Project Summary**

The Australian dairy industry not only plays a critical role in our way of life, but processed dairy products contribute to 12% or \$3.27b to Australia's export revenue. It has learnt to adapt to changing market demands through innovative membrane technologies, but now energy and water are key issues. This project aims to reduce water consumption in dairy processing by treating waste streams using novel membrane processes including membrane distillation. The energy is supplied from low grade waste heat, offsetting the need to supply more power to the plant. Reducing the need for water in a zero-energy way will ensure the thriving dairy industry remains cost competitive and an integral part of Australia's culture and economy.

**LP0991005** Dr T Vasiljevic; Dr O Donkor; Dr ML Mathai; Dr IA Knuckey; Mr WA Street

**Approved Project Title** **The effect of dietary fish peptides on biomarkers of human health - the influence of processing conditions and the environment**

**2009 :** \$ 26,140

**2010 :** \$ 52,280

**2011 :** \$ 52,280

**2012 :** \$ 26,140

**Primary RFCD** 2901 INDUSTRIAL BIOTECHNOLOGY AND FOOD SCIENCES

APA(I) Award(s): 2

#### **Collaborating/Partner Organisation(s)**

Geelong Food Co-products Cluster

**Administering Organisation** Victoria University

#### **Project Summary**

This project links together two diverse but important areas of national importance: declining fisheries and human health. Australia is a small producer and exporter of fish but has access to significant fisheries. The Geelong Food Co-product Cluster comprises a number of fish companies facing serious problems associated with declining catches compounded by the current financial crisis. Increasing use of by-catch species and developing novel processing technology for controlled release of bioactive peptides that may reduce appetite and the tendency for overweight and obesity in consumers could provide the Australian seafood industry with a world competitive innovative technology leading to improvements in human health.

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**LP0990297** Dr SA Weller; A/Prof WN Pritchard; Prof M Alston; Prof MJ Webber

**Approved Project Title** Rural adjustment or structural transformation? Discovering the destinations of exiting farm families

**2009 :** \$ 55,000

**2010 :** \$ 100,000

**2011 :** \$ 85,000

**2012 :** \$ 80,000

**2013 :** \$ 95,000

**2014 :** \$ 55,000

**Primary RFCD** 3704 HUMAN GEOGRAPHY

APA(I) Award(s): 1

**Collaborating/Partner Organisation(s)**

Victorian Government, Department of Treasury and Finance

**Administering Organisation** Victoria University

**Project Summary**

The findings of this research will assist local, State and Federal governments to intervene effectively in processes of regional and rural structural adjustment. It will generate economic benefits by recommending policies that facilitate growth and promote sustainable rural businesses while at the same time sheltering rural communities and individual households from adverse outcomes. It will contribute social benefits by identifying policies to improve the outcomes of rural adjustment for families and individuals. The new knowledge it provides will inform the politics of regional change and remove some of the uncertainties that currently impede the implementation of rural adjustment policies.