

## Tasmania

### University of Tasmania

**LP0883540** Prof MR Davis; Dr GA Thomas; Mr TJ Roberts; Mr NS Wells; Dr DS Holloway

**Approved Project Title** **Wave slam on high speed wave piercing catamaran ferries in large seas**

**2008 :** \$ 50,000

**2009 :** \$ 100,000

**2010 :** \$ 95,000

**2011 :** \$ 45,000

**Primary RFCD** 2912 MARITIME ENGINEERING

APA(I) Award(s): 2

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

INCAT Tasmania Pty Ltd

Revolution Design Pty Ltd

**Administering Organisation** University of Tasmania

#### **Project Summary**

Australia has taken a pioneering lead in the design of high speed multi-hull ferries and continues to extend their speed, range and payload performance. Design leadership and the technology which supports it are crucial to maintaining the existing large share of the international market for such vessels. Recently freight and military transport vessels have been exposed to much more severe wave conditions than passenger vessels and this has increased the need for improved prediction of structural loads due to waves. This project directly addresses that need by computation and model testing validation. The industry is a significant export earner and employer within Australia and so the project directly underpins those national benefits.

**LP0884030** Prof PR Haddad; Dr GW Dicoski; Dr JP Hutchinson; Dr R Szucs

**Approved Project Title** **Non-discriminatory, universal and sensitive detection technologies for fluid based separation techniques in the pharmaceutical industry**

**2008 :** \$ 85,000

**2009 :** \$ 137,137

**2010 :** \$ 107,137

**2011 :** \$ 55,000

**Primary RFCD** 2504 ANALYTICAL CHEMISTRY

APA(I) Award(s): 1

APDI Dr JP Hutchinson

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

Pfizer Australia

**Administering Organisation** University of Tasmania

#### **Project Summary**

The proposed research is focused on the specific needs of Australian and global pharmaceutical industries, and addresses a problem which is becoming increasingly significant with new classes of pharmaceuticals. Successful achievement of the goals of the project will result in major savings of cost and time during drug development and will lead to the production of safer drugs. The project will expand collaboration between Australia researchers and the world's largest pharmaceutical company. Specialised training will be provided to both postdoctoral and postgraduate researchers, positioning them to make strong contributions to Australia's growing pharmaceutical industry.

## Summary of Linkage Projects Proposals for Funding to Commence in 2008

**LP0883880** A/Prof BF Nowak; Dr J Carson; Prof B Koop

**Approved Project Title** **Improving vaccine performance through understanding host-pathogen interaction in yersiniosis**

**2008 :** \$ 72,441

**2009 :** \$ 123,368

**2010 :** \$ 91,921

**2011 :** \$ 40,994

**Primary RFCD** 3007 FISHERIES SCIENCES

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

Tasmanian Salmonoid Growers Association

Ridley Aqua-Feed

**Administering Organisation** University of Tasmania

### **Project Summary**

This project will significantly contribute to the economic and environmental sustainability of the Australian salmon industry. It will reduce salmon production costs, ensure sufficient supply of fish from hatchery to grow-out and reduce the use of antibiotics. Reduced use of antibiotics will benefit both the environment and human health. As the salmon industry is based in regional and rural areas, this project will support rural and regional communities. This project will further strengthen Australian leadership in aquaculture research through use of molecular methods to address industry issues and will therefore increase the competitiveness of Australian science.

**LP0884001** Prof BM Potts; A/Prof RE Vaillancourt; Dr GW Dutkowski; Dr RJ Kerr

**Approved Project Title** **Quantitative genetics of Eucalyptus globulus**

**2008 :** \$ 52,500

**2009 :** \$ 105,000

**2010 :** \$ 105,000

**2011 :** \$ 52,500

**Primary RFCD** 2702 GENETICS

APA(I) Award(s): 1

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

Southern Tree Breeding Association

seedEnergy Pty Ltd

PlantPlan Genetics Pty Ltd

**Administering Organisation** University of Tasmania

### **Project Summary**

Eucalypt plantations in Australia have expanded rapidly over the last decade. With increasing market competition from overseas plantations for both pulp and solid wood products, Australia must maintain a competitive edge through efficiencies in production and product quality. Breeding and deployment of genetically superior planting stock is part of the solution. With global climate change and requirements for re-afforestation in drier zones, there is an increasing requirement to genetically improve drought tolerance. This project will provide genetic information and strategies to back Eucalyptus globulus breeding and deployment programs for traditional as well as drier environments.