Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2010 by State and Organisation

Tasmania

University of Tasmania

LP100100529 Dr Frank S Hay, Dr Sarah J Pethybridge, Dr David H Gent

Approved Project Title **Meeting the challenges of Sclerotinia crown rot in a perennial production system - pyrethrum**

2010	$122,000.00
2011	$122,000.00
2012	$122,000.00

Primary FoR 0607 PLANT BIOLOGY

Partner Organisations

Botanical Resources Australia

Administering Organisation University of Tasmania

Project Summary

The Australian pyrethrum industry has undergone rapid growth in the last decade, which has seen it become the second largest producer of natural insecticidal pyrethrins in the world. Current production supplies 60% of the global market, with further expansion planned. Sclerotinia crown rot is a major disease that results in plant death; reducing yields and the life of the perennial crop. This project aims to develop more cost effective and environmentally sustainable methods of managing this disease. This will help to ensure consistent supply of pyrethrin to the world market, reduce the costs of production and increase the net return to growers.

LP100100050 Dr Gregory J Jordan, Dr Susan C Baker, Dr Thomas A Spies, Dr Christopher P Burridge, Dr Timothy J Wardlaw, Prof Jerry F Franklin

Approved Project Title **Managing variable retention harvesting to maintain forest biodiversity—effects of forest influence and successional stage on recolonisation**

2010	$103,000.00
2011	$136,000.00
2012	$116,000.00

Primary FoR 0705 FORESTRY SCIENCES

APDI Dr Susan C Baker

Partner Organisations

Forestry Tasmania, Forests and Forest Industries Council of Tasmania

Administering Organisation University of Tasmania

Project Summary

The project will provide the ecological evidence that will allow forest harvesting practices to be designed to sustain the full range of biodiversity in managed forest systems. It therefore will provide the basis for sustainable forest management, with extensive economic implications. It will specifically test the biodiversity implications of the new and increasingly important variable retention methods of forest harvesting, and provide the basis for optimising these methods. In addition, the large database of DNA barcodes for forest beetles developed as a by-product by this project will provide a basis for less expensive and more accurate biodiversity assessments in sustainable management of forest systems in general.

Summary of Successful Linkage - Projects Proposals for Funding to Commence in 2010 by State and Organisation

LP100100700 Dr Jane E Sargison, A/Prof Paul A Brandner, Ms Jessica M Andrewartha, Dr Alan D Henderson, Prof Gustaaf M Hallegraeff, Dr Jonathan E Osborn, Prof Gregory J Walker

Approved Project Title **Freshwater biofouling of hydraulic conduits: impact, mitigation, and control, and the consequences of Climate Change**

2010	$53,338.00
2011	$53,338.00
2012	$53,338.00
Primary FoR	0607 PLANT BIOLOGY
APAI	2

Partner Organisations

Hydro Tasmania

Administering Organisation University of Tasmania

Project Summary

National economic and environmental benefits will flow from increased outputs of renewable energy from hydroelectric power systems. Improved performance of canals and pipelines will enable energy and water losses to be reduced and will provide the National Electricity Market with additional renewable energy, lowering the requirement for fossil fuels. Knowledge of the impacts of Climate Change will enable industry to manage changes in rainfall pattern and conduit biofouling. An improved understanding of biofilms can be applied to achieve wider national benefit in water reticulation, irrigation systems and maritime applications. The team will develop research skills and technical expertise and train PhD students and industry counterparts.