

Summary of Linkage Infrastructure, Equipment and Facilities Proposals by State and Organisation

Tasmania

University of Tasmania

LE100100015 A/Prof Noel W Davies, Prof James B Reid, Prof Allan J Canty, Prof Bradley M Potts, Prof Mark L Tamplin, A/Prof Caroline L Mohammed, A/Prof John J Ross, Dr Julianne M O'Reilly-Wapstra, Dr Glenn A Jacobson, Dr Simon W Wright

Approved Project Title **Purchase of an ultra-performance liquid chromatograph - triple quadrupole mass spectrometer**

2010 \$200,000.00

Primary FoR 0607 PLANT BIOLOGY

Partner/Collaborating Organisation(s)

Australian Antarctic Division (AAD)

Administering Organisation University of Tasmania

Project Summary

The diverse research supported by the proposed instrument group addresses several national research priorities. It will lead to a better fundamental understanding of the hormonal control of plant growth, improved catalysts for organic synthesis including pharmaceuticals and improved food safety. In forestry it will help to increase forest productivity through mitigating losses from insect and mammalian pests and enhancing wood quality. In pharmaceuticals, improved treatments for asthma are expected. This facility will provide the infrastructure essential for many researchers to maintain internationally competitive profiles in their areas and continue to offer postgraduate training and postdoctoral opportunities.

LE100100107 Prof Paul R Haddad, Prof Leonid V Danyushevsky, Dr Emily F Hilder, Prof Ross R Large, Prof Vadim Kamenetsky, Prof Allan J Canty, A/Prof Sergey Shabala, Prof Johanna Laybourn-Parry, Prof Gustaaf M Hallegraeff, Prof Andrew McMinn

Approved Project Title **Purchase of a multi-purpose Schottky field emission gun scanning electron microscope**

2010 \$400,000.00

Primary FoR 0403 GEOLOGY

Partner/Collaborating Organisation(s)

Administering Organisation University of Tasmania

Project Summary

Scanning electron microscopy is a basic analytical tool for imaging surfaces of natural and synthetic materials and identification of nanometre-scale features and their compositions. At the University of Tasmania, it supports four of our six designated priority research themes: Antarctic and Marine Studies, Environment, Frontier Technologies, and Sustainable Primary Production. Our research depending on this technique includes many fundamental and applied topics from a wide range of disciplines, such as developing portable detection devices for explosives, finding more efficient and sustainable ways to explore for ore, investigating the effects of climate change on marine ecosystems and improving salinity and drought tolerance of crops.