

Summary of Linkage Infrastructure Applications for Funding to Commence in 2006

Western Australia

Murdoch University

LE0668536 Prof RP Oliver; A/Prof RD Trengove; Prof AC Thompson; Prof R Appels; Prof IC Potter; A/Prof DW Pethick; Dr SA Reid; Dr PB Spencer; Prof S Smith; Prof CA Atkins; Dr KW Dixon; A/Prof EL Ghisalberti; Dr AH Millar; Prof RL Hurle; A/Prof TJ Edwards; Dr EF May; Dr B Warton; Dr B van Aarssen; Dr WM Best

Approved Project Title **Western Australian Facility for High Throughput Biological and Organic Gas Chromatography-Mass Spectrometry**

2006 : \$485,000

Primary RFCD 2504 ANALYTICAL CHEMISTRY

Partner Organisation(s)

Murdoch University
The University of Western Australia
Curtin University of Technology
Botanic Gardens and Parks Authority
Epichem Pty Ltd

Administering Institution Murdoch University

Project Summary

Disciplines such as pharmaceuticals, plant protection, mineral extraction, and conservation all need to separate, identify and quantify molecules. The method of choice for small molecules (< 500 amu) is gas chromatography and mass spectrometry (GC-MS). A broad range of laboratories in WA are using GC-MS, but the equipment is fully utilised, outdated and limiting progress. This application seeks to purchase research grade GC-MS equipment with order-of-magnitude improvements in mass range, sample throughput, discrimination and data handling capacities. This equipment will transform capabilities and will enhance projects supporting the minerals and agricultural industries and enhance biodiversity conservation efforts.