Backing Australia's Ability

The Commonwealth Government's Commitment to Innovation

COMMONWEALTH DEPARTMENT OF EDUCATION SCIENCE & TRAINING

Major National Research Facilities Programme

Facility Name: **Australian Proteome Analysis Facility**

Proteomics is the high throughput, extremely sensitive process for separating, identifying and characterising proteins.

The current facility is based at Macquarie University and will be extended to include the Universities of Sydney and NSW and a new node in Adelaide. The infrastructure will provide a world class research and teaching facility which is vital for the continued success of Australian biological research.

Grant: $16.25 million

Principal Proponent: Macquarie University

Description and Objectives: The expanded facility will feature new equipment that overcomes technical limitations of existing equipment, thus maintaining a state-of-the-art capability and Australia's acknowledged world lead in proteomics. The facility will provide specialist platform technology to support academic and commercial researchers, as well as providing high-quality training courses in functional proteomics.

Outcomes of the Facility: The facility will allow Australian and overseas researchers access to the latest proteomics expertise and equipment, ensuring that pharmaceutical, agricultural and fundamental research remain at the leading edge. As a consequence, users of the facility will have the capability to:

- Develop novel pharmaceuticals to fight diseases such as cancer, diabetes, allergies and arthritis;
- Develop diagnostics for a range of infectious diseases;
- Identify markers to assist in the breeding of plants for salt and temperature tolerance and increased yields; and
- Identify novel enzymes for industrial applications.

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