

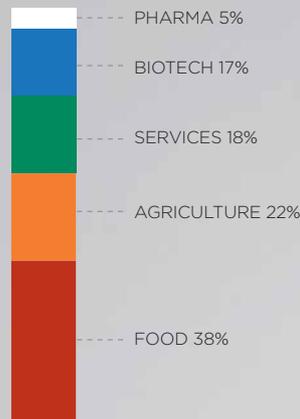
INDUSTRY ENGAGEMENT - PROTEOMICS

Proteomics is increasingly being employed by Australian industry for new product development and testing applications.

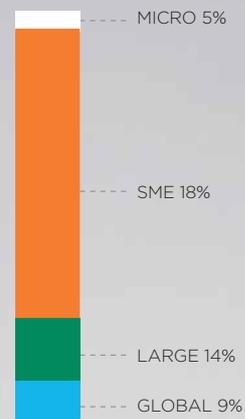
Advanced protein analysis technologies can reveal the structure and function of proteins and their complex interactions. Proteomic investigations have diverse commercial applications including drug development, crop resilience, food safety and quality control processes.

The Australian Proteome Analysis Facility (APAF) is a high throughput proteomics laboratory offering world class research services in protein analysis. As a key partner in the Bioplatforms Australia infrastructure network, APAF's scientific infrastructure and expertise is broadly accessed by Australian and international companies of all sizes from diverse industries.

INDUSTRY ENGAGEMENT



ENTERPRISE SIZE



INNOVATION PIPELINE

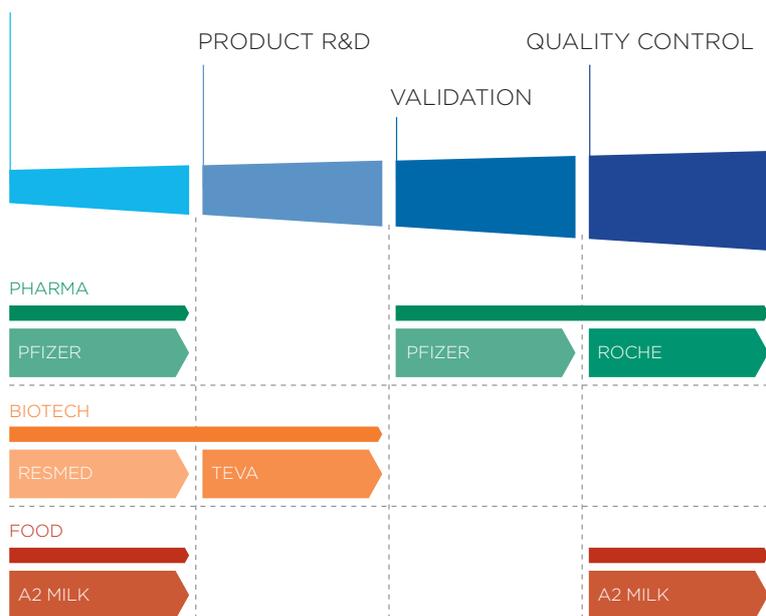
APAF's commercial collaborations can occur anywhere within the development spectrum from innovation to end-user and most significantly support pharmaceutical, biotech, food and agricultural companies.

Proteomics advances have created highly sensitive methods to identify and measure protein changes in cells and tissue making it an important discovery tool for identifying biological markers. These techniques also allow the development of novel biomarker assays to guide product R&D and provide a quantitative method for validation and quality control processes.

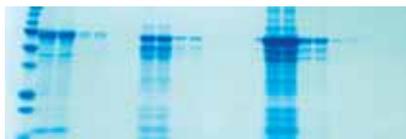
DISCOVERY

PRODUCT R&D

QUALITY CONTROL



CASE STUDIES



ROCHE

Pharmaceutical company, Roche has contracted APAF's mass spectrometry expertise to develop and apply novel protein biomarker assays for a Phase IV clinical trial of bevacizumab in metastatic colorectal cancer.



RESMED

Australian medical device company, ResMed has worked with APAF to identify protein biomarkers associated with sleep apnoea.



THE A2 MILK COMPANY

APAF and a2 Milk have collaborated on numerous projects to characterise new and existing products as well as to develop new analytical testing procedures.



PFIZER

APAF has been collaborating with Pfizer's global research teams for over eight years. Projects early in the innovation pipeline have sought new biological knowledge in model systems. Further along the pipeline, they have supported preclinical studies seeking pharmacodynamic biomarkers of drug action.



TEVA PHARMACEUTICAL AUSTRALIA

Teva Pharmaceuticals have established a service arrangement that employs APAF's expertise in peptide and glycan analysis to characterise biologic entities. This partnership led to the development of new characterisation services which are utilised by other biotech companies to support commercialisation and registration of biologic entities.



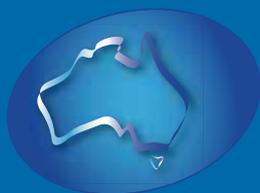
BIOPLATFORMS AUSTRALIA

Bioplatforms Australia's infrastructure network provides open access to sophisticated instrumentation that is operated by expert technical staff for academic, research and commercial endeavours.

Our proteomics partners regularly collaborate with industry to translate research into productive outcomes.

Value of BPA research infrastructure network to industry

- Rapid and affordable access to world leading talent and infrastructure that is costly to establish, operate and maintain
- Access to expert problem solving
- Transforms research techniques into commercial applications
- Enables product innovation and a competitive edge
- Linkages to academia and a gateway to international collaborations
- Economies of scale via high throughput instrumentation



BIOPLATFORMS AUSTRALIA

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Bioplatforms Australia is a non-profit organisation that supports Australian life science research with crucial investments in state-of-the-art 'omics technologies and cutting edge expertise. Investment funding has been provided through the Commonwealth Government National

NCRIS

National Research Infrastructure for Australia
An Australian Government Initiative

Collaborative Research Infrastructure Strategy, 2009 EIF Super Science Initiative and the Collaborative Research Scheme. Co-investments have been made by State Governments, research institutes and commercial entities.