



Biomolecular Discovery Research Centre

SMALL MOLECULES – BIG SOLUTIONS



WHAT IS THE BIOMOLECULAR DISCOVERY RESEARCH CENTRE?

The Macquarie University Biomolecular Discovery Research Centre (BDRC) is an innovation hub that delivers solutions across a range of life science applications – including agriculture, the environment, biotechnology, nanotechnology and medical discovery.

Using genomics, proteomics, glycomics, metabolomics, biomedical and bioengineering techniques across many specific research areas, our work is underpinned by state-of-the-art biomolecular analytical technologies and strong expertise in bioinformatics and statistics.

OUR WORK

At the Biomolecular Discovery Research Centre (BDRC), we work to engage our researchers with industry, philanthropy and other government and non-government organisations to develop collaborative research partnerships.

We aspire to long-term relationships based on research success for both parties.

OUR CAPABILITIES

Our members are internationally recognised for their strengths and expertise. This – combined with our highly qualified graduates, infrastructure and high-end instruments and laboratories – ensures cutting-edge research that is both translational and industry-oriented, and results in rapid discovery, analysis and solutions to real-life problems of wide importance in our society.

WHY PARTNER WITH US?

Our expertise, technologies and infrastructure result in ground-breaking solutions to many biological issues facing industry. The benefits of collaborating with us include:

- development and optimisation of biomolecular materials and processes relevant to industry
- solutions to problems in industry pipelines – from discovery, analysis, implementation and scientific validation, to increased productivity and profitability
- access to cutting-edge research expertise and ISO/NATA-accredited analytical facilities for large corporations, small and medium-sized enterprises and startups seeking practical solutions
- build the capacity, with our highly qualified graduates, of the Australian biotech sector
- form beneficial, long-term partnerships that may lead to large-scale funding from government and industry grant schemes.

MACQUARIE UNIVERSITY BIOMOLECULAR DISCOVERY RESEARCH CENTRE (BDRC)

CAPABILITIES		
SYSTEMS	PRODUCTION	ANALYTICAL
Mouse Models Human Cell Cultures Tissues and Body Fluids Zebra Fish Insects Caterpillar Lab-on-a-Chip	Biotechnology Nanotechnology Insects Microalgae Yeast Bacteria Formulation	Genomics Proteomics Glycomics Metabolomics Microbiomics Microfluidics Spectroscopy
BIOMEDICAL Health and Medical Sciences Macquarie University Hospital		
BIOINFORMATICS Statistical validation Data assurance High throughput		
REAL OUTPUTS Scientifically verified Industry relevant Marketable		

FIND OUT MORE

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