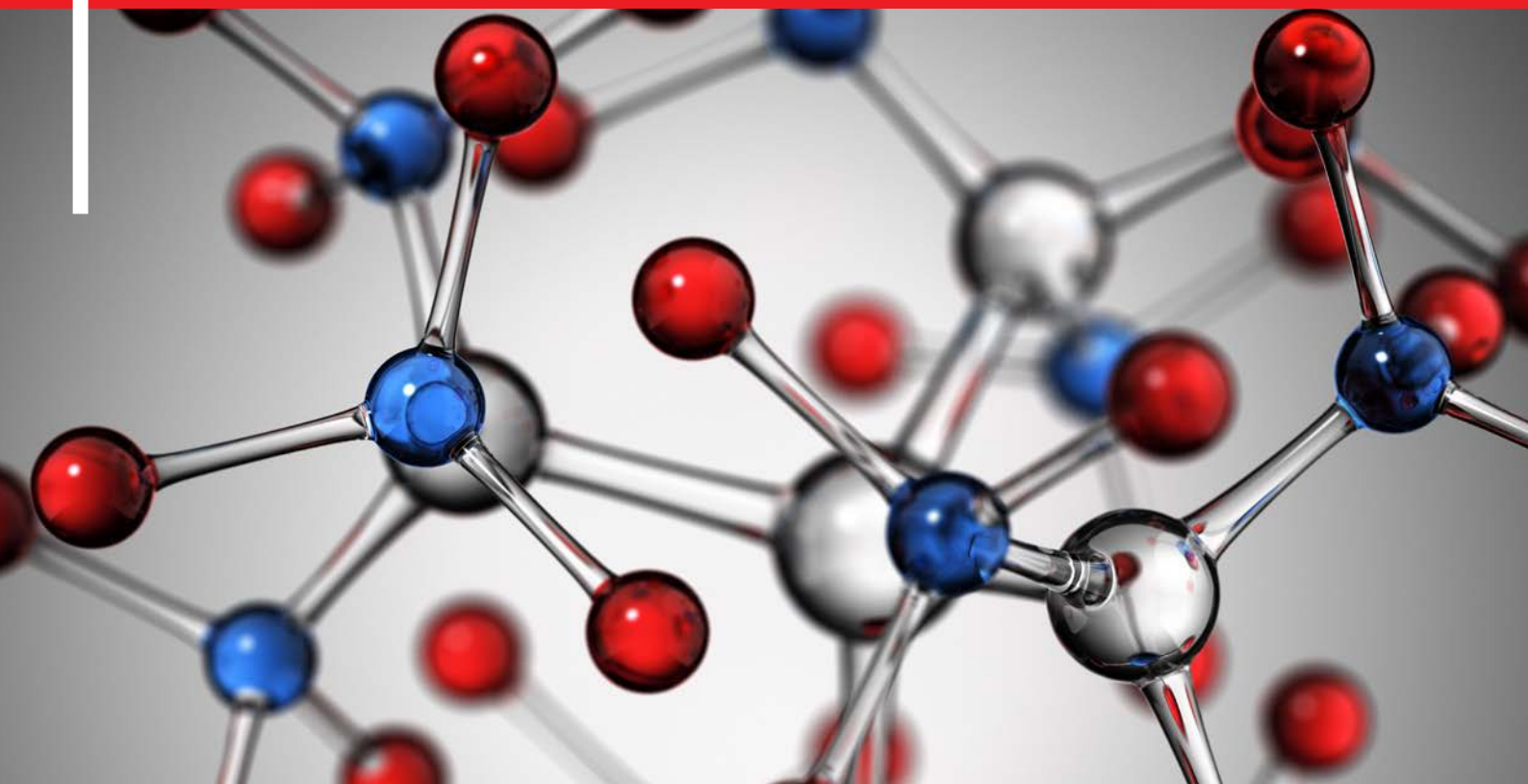
LA TROBE UNIVERSITY

latrobe.edu.au/proteomics
latrobe.edu.au/metabolomics
latrobe.edu.au/nmr

PROTEOMICS AND METABOLOMICS PLATFORM

A multi-disciplinary platform for proteins, metabolites and small molecules

- Tandem mass spectrometry
- Nuclear magnetic resonance spectroscopy
- Quantitative proteomics
- Quantitative metabolomics, lipidomics and volatilomics
- Biomarker discovery
- Phospho- and glyco-proteomics
- Intact protein mass determination
- Small molecule characterisation
- NMR kinetics and diffusion studies
- Bioinformatics



PROTEOMICS AND METABOLOMICS PLATFORM

Expertise in proteins, metabolites and small molecules

EXPERTISE

Proteins, metabolites, small molecules and protein interactions

INSTRUMENTATION

Mass spectrometers, NMR and SPR instruments

AVAILABLE TO

All academic, industry and government researchers.

ABOUT US

La Trobe's Proteomics and Metabolomics Platform (PMP) offers researchers comprehensive support in proteomics, metabolomics and small molecule characterisation.

We are a multidisciplinary team of experienced researchers and professional staff with outstanding research track records.

OUR FACILITY

Our facility contains state-of-the-art mass spectrometers, including LC-MS/MS and GC-MS/MS, nuclear magnetic resonance (NMR) and surface plasmon resonance (SPR) instruments.

ACCESS

The PMP is accessible to all researchers from academic, industry and government sectors. We offer a range of access models, including training, self-service, subscriptions, collaboration, and full fee-for-service, to suit your requirements.

CONTACT US

PMP@latrobe.edu.au

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RANGE OF SERVICES

- Advice on **experimental design**
- **Full support** in sample preparation, method development, optimisation, validation, data acquisition and data analysis
- **Bioinformatics services** with advanced software packages for data visualisation, statistical significance calculation and pathway analysis
- **Proteomics services**, including proteome profiling (DIA, DDA), label-free/dependent quantification, targeted analysis (PRM), HDX, phospho/glyco-proteomics, and intact mass determination
- **Metabolomics expertise** in quantitative targeted, semi-targeted and untargeted metabolomics, volatilomics and lipidomics for metabolite profiling, biomarker discovery, drug development, and more
- **Nuclear magnetic resonance support** in exploring the molecular composition, structure, dynamics and function, through multinuclear liquid NMR
- We accept **diverse sample types**, including tissues, cells, organelles, biofluids, plants, environmental, food and pharmaceutical samples
- We develop **customised workflows** tailored to your needs

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