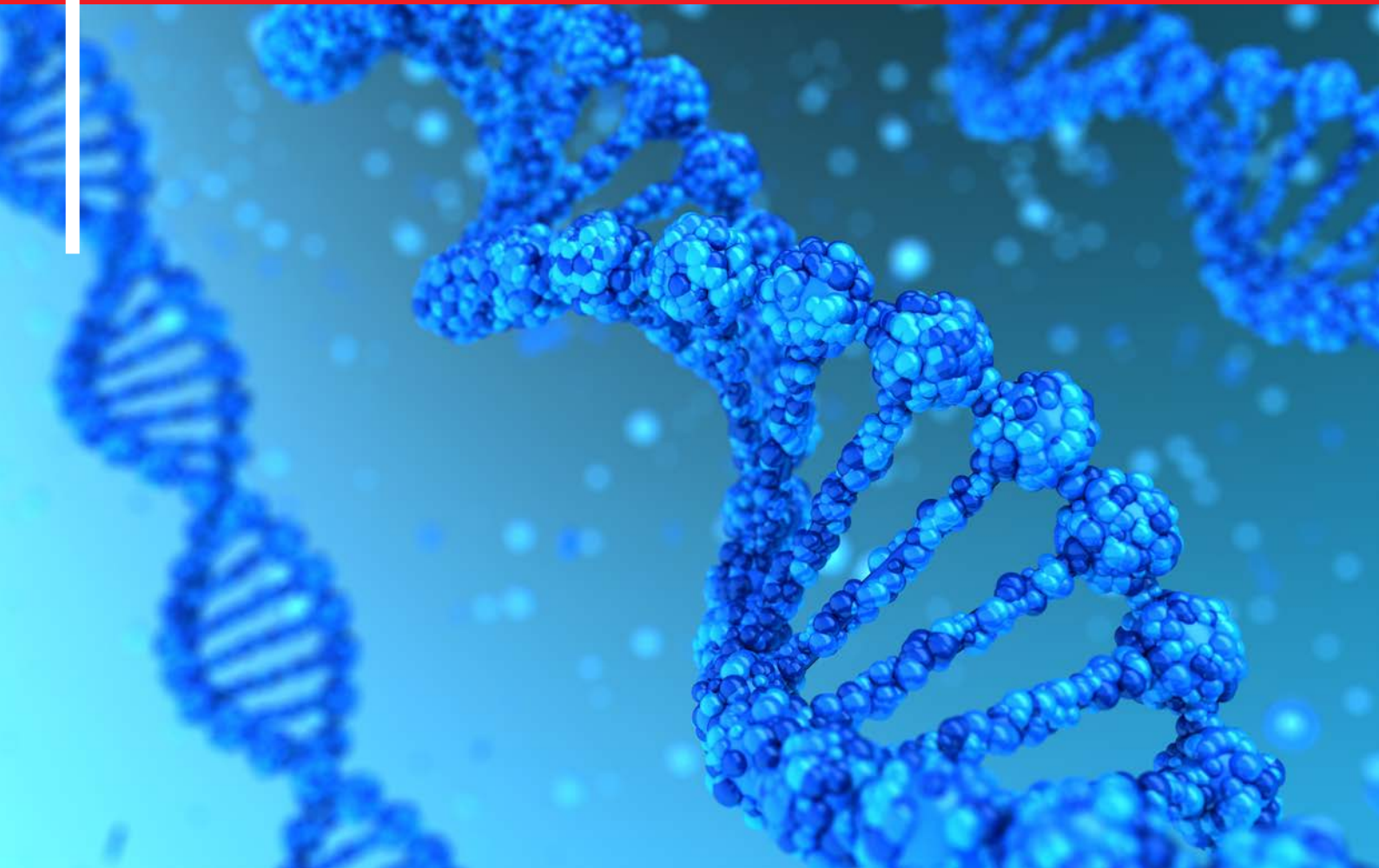# GENOMICS PLATFORM

Accelerating discovery through integrated genomics and bioinformatics solutions

– Next-generation sequencing
– Microbiome and virome analysis
– Long read sequencing analysis
– Transcriptome profiling (RNA–Seq, small RNA–Seq sequencing, and single cell RNA–Seq analysis)
– Epigenomics analysis
– Multi–omics data analysis
– Bioinformatics and machine learning
– High performance computing

GENOMICS PLATFORM
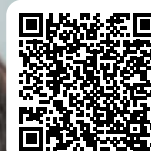
EXPERTISE

Next-generation sequencing, high-performance computing, bioinformatics, machine learning, multi-omics analysis

INSTRUMENTATION

NextSeq machine (Illumina)
MiSeq machine (Illumina)
Oxford Nanopore technology
10x Genomics Chromium X

AVAILABLE TO

All academic, industry and government researchers.

ABOUT US

La Trobe's Genomics Platform offers comprehensive support, services and expertise in next generation sequencing, machine learning, multi-omics analysis, and bioinformatics.

We are a small team of experienced researchers and professional staff with outstanding research track records. We facilitate a wide array of research projects requiring highly detailed global DNA and RNA sequence analysis.

OUR FACILITY

Our facility contains state-of-the-art short-read, long-read, and single cell sequencing instruments.

We have access to a range of software and hardware resources, including high performance computers and cloud-based virtual machines.

RANGE OF SERVICES

– **Expert advice** on experimental design, data analysis, visualisation and publication
– **Library preparation** for DNA, mRNA and long read sequencing
– **Library sequencing,** plasmid sequencing and single cell sequencing with state-of-the-art technologies
– **Bioinformatics services,** including multi-omics data analysis, visualisation and exploration
– **Machine learning** and pattern discovery analysis
– **High performance computing,** including support in cloud virtual machine setup and training
– **Grant support,** including quoting for grant applications or participation as a Chief or Associate Investigator

ACCESS

Our facility and services are open to all academic, industry and government researchers.

We work with a range of samples and have various access models to suit all needs.

Get in touch today to discuss your project requirements.

CONTACT US

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