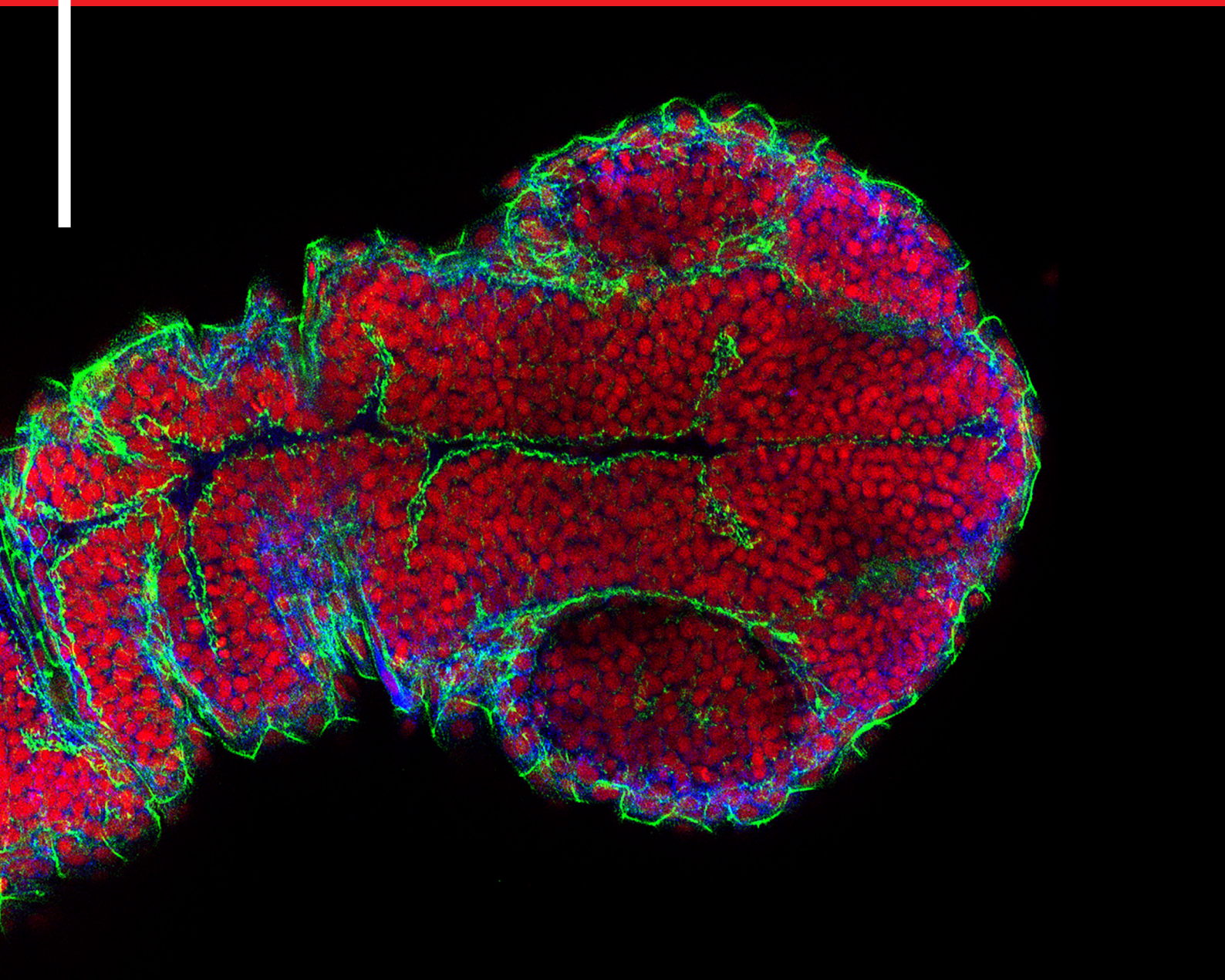
LA TROBE UNIVERSITY

latrobe.edu.au/bioimaging

BIOIMAGING PLATFORM

A multidisciplinary facility enabling discovery through advanced imaging and analysis

Accelerating research through services, training, and consultation in electron and light microscopy, flow cytometry, histology and image analysis



BIOIMAGING PLATFORM

Enabling discovery through advanced imaging and analysis.

ACCESS

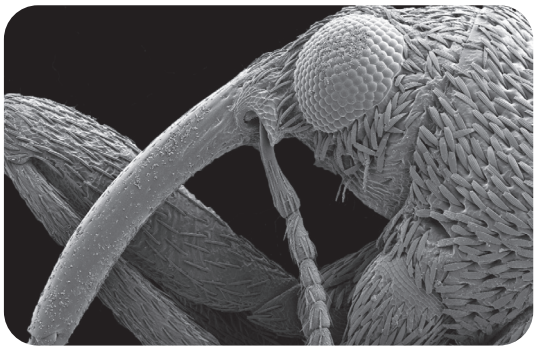
Self-service, subscription, collaboration and full fee-for-service

AVAILABLE TO

All academic, industry and government researchers.

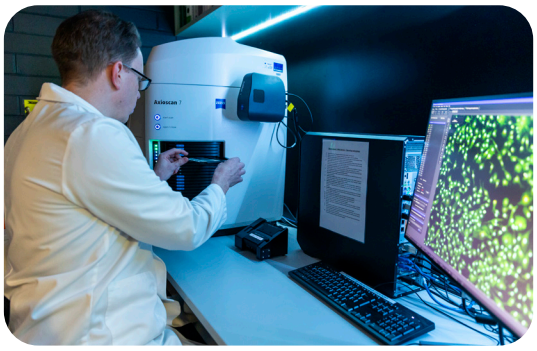
CONTACT US

Bioimaging@latrobe.edu.au
latrobe.edu.au/bioimaging



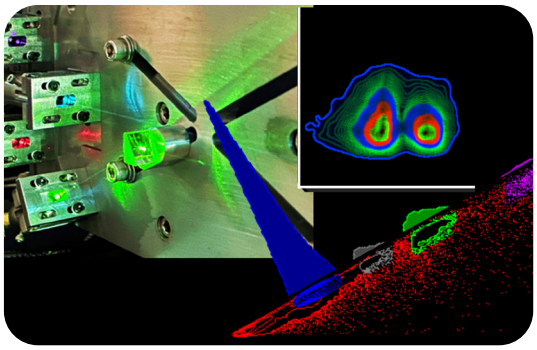
ELECTRON MICROSCOPY

- Transmission and scanning electron microscopy
- High-resolution imaging for a wide range of sample types, from biological to material applications
- Extensive sample preparation facilities and advanced techniques, including cryo and 3D electron microscopy and elemental analysis
- Training for users, collaboration or fee-for-service work
- Assistance with sample preparation through to image analysis



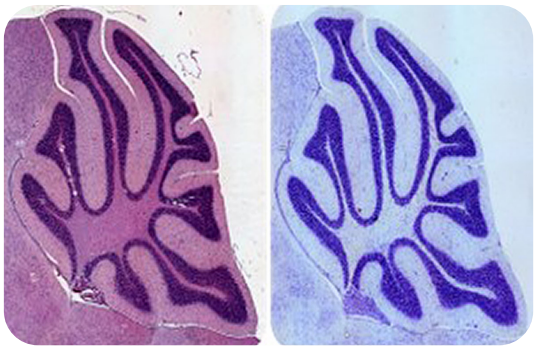
LIGHT MICROSCOPY

- High-performance confocal, super-resolution, and widefield fluorescence microscopes
- Equipment for live cell imaging and multichannel imaging
- Services include slide scanning and analysis script writing
- Support in basic through to advanced microscopy techniques, including FRET, FRAP and Spectral Deconvolution



FLOW CYTOMETRY

- Cell analysis with 5 to 28 colours across multiple channels, including high-throughput sampling in 96-well plates
- Cell sorting services, including sorting of large objects and small organisms within PC2 certified labs
- Cytometer analysis of extracellular vesicles and small particles
- Advice on fluorescence panel design, experimental design, sample preparation and optimisation of flow cytometry applications
- Data analysis and data processing



HISTOLOGY

- Expertise in plant and animal histology
- High-quality specimen processing, paraffin and OCT embedding
- Precise microtome thin sectioning of paraffin-embedded tissues, cryostat sectioning of fresh or fixed-frozen tissues, and preparation of thick sections and tissue slices
- Histological staining and qualitative and quantitative evaluation