

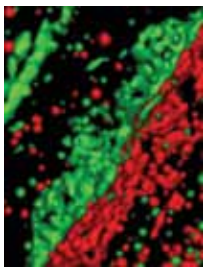
Image Processing & Analysis

The BIRU has off-line copies of all confocal microscope software.

- Leica **LCS**
- Zeiss **ZEN**
- Olympus **FluoView**

Specialised packages for analysis, 3D visualisation and reconstruction include the following:

- Mercury Systems **Amira**
- MediaCybernetics **Image Pro Plus 3D suite**
- Molecular Devices **MetaMorph**



Ray Gilbert



Jacqui Ross



Contact

Ratish Kurian at r.kurian@auckland.ac.nz or

Jacqui Ross at jacqui.ross@auckland.ac.nz

Training

We offer individual training for research staff and students. Enquiries from outside users are also welcome.

Courses

Courses that make use of the Biomedical Imaging Research Unit include the following:

- MEDSCI 703
- MEDSCI 733
- MEDSCI 310
- PHARM 751

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Cell & Molecular Imaging

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Jacqueline (Jacqui) Ross

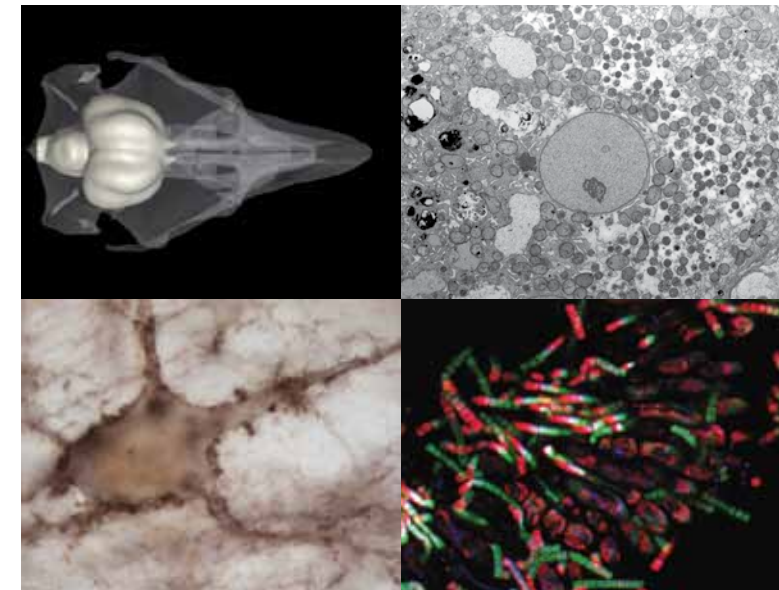
Telephone: +64 9 923 7438

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Website

<http://www.auckland.ac.nz/biru>

Biomedical Imaging Research Unit

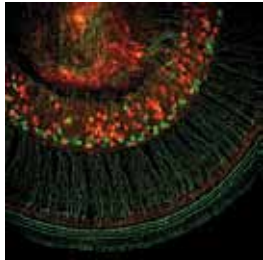


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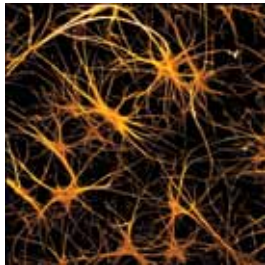
Confocal Microscopy

Four confocal microscopes are available for use. Three are upright microscopes, a **Leica TCS SP2** and two **Olympus FV1000** systems. The fourth is an inverted microscope, the **Zeiss LSM 710** (pictured below).

One of the **Olympus FV1000** confocal microscopes, is specialised for live cell/tissue imaging and equipped with a Solent system that provides controlled heating and humidified 5% carbon dioxide in air.



Lin-Chien Huang



Ji-Zhong Bai



Contact

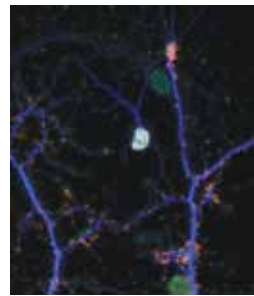
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Light/Fluorescence Microscopy

Three fluorescence microscopes equipped with digital cameras are available. Two are upright microscopes, a **Leica DMR** and **Zeiss AxioPlan2**, and the third is an inverted microscope, the **Nikon TE2000E**.

The **Nikon TE2000E** inverted microscope, which is fully motorised and has a Solent incubation system (pictured below), can be used for live cell and multi-dimensional imaging.

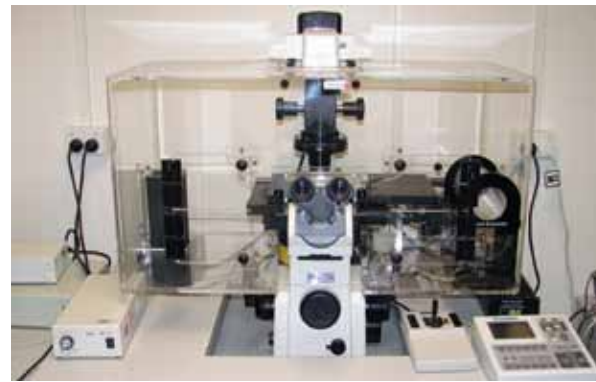
The **Nikon BioStation**, for live cell imaging of cells in Petri dishes, is also housed in the BIRU.



Juliette Cheyne



Nils Krutzfeldt



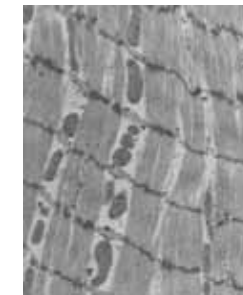
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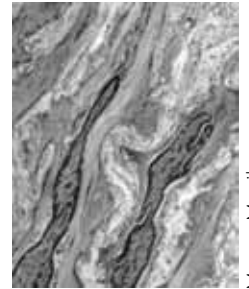
Transmission Electron Microscopy

The BIRU has a **Tecnai G² Spirit TWIN** 120kV transmission electron microscope, which is capable of collecting 3D datasets for tomographic reconstruction.

BIRU also has all the necessary equipment for specimen preparation for transmission electron microscopy and offers training from tissue fixation through to ultramicrotomy.



David Crossman



Mervyn Merrilees



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