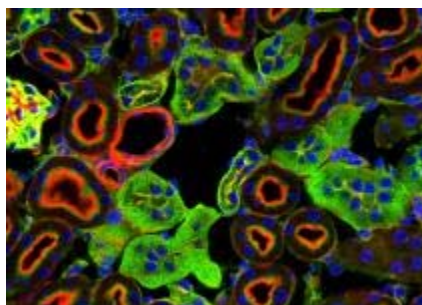


## Advanced Optical Microscopy Facility (AOMF)

A multi-site facility ([TMDT](#), [TGH](#) and the PM) providing optical microscopy technologies for the observation of fixed cells, live cells, and tissues. The facility is led by Drs. [Brian Wilson](#) and [Ming-Sound Tsao](#).



**Service Department(s):** Research Communications

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### Available Equipment

- TMDT (15th floor, Room 15-305)
  - Aperio Scanscope XT whole-slide scanner: digitizes entire stained histology slides at incredible resolution
  - New Zeiss LSM700 confocal microscope: optimized for DAPI/FITC/Cy3/Cy5 or equivalent
  - Zeiss LSM710 Two-Photon microscope (and fully-loaded confocal): upright microscope stand optimized for intravital imaging of mice and Second Harmonic Generation (SHG) microscopy
  - Zeiss AxioObserver: inverted microscope with incubator for time lapse live-cell imaging
  - Olympus BX50 motorized upright fluorescence microscope: for multi-colour fast tiling of whole slides
  - Zeiss AxioImager Z1 upright fluorescence microscope with both monochrome and colour cameras
  - Renishaw Raman microscope: with inverted microscope stand for live-cell imaging, 3 lasers, and highspeed Raman mapping mode
  - CompuCyte iCys laser scanning cytometer: for multi-parameter analysis of cells and tissues
  - Upright Olympus BX51 microscope: with colour camera for brightfield imaging
  - Leica MZ FLIII fluorescence stereomicroscope: for large field-of-view
  - Three image analysis stations equipped with ImagePro Plus, Volocity, Metamorph, AutoQuant deconvolution, Illustrator, Photoshop, ImageJ, and Aperio Genie pattern recognition software
- TGH (Max Bell, 1st floor, Room 1R402)
  - Two Olympus FluoView 1000 confocal microscopes, with SIM scanner for FRAP, spectral detector and incubators for live cells
  - Two Yokogawa spinning disc confocal microscopes – real-time confocal imaging
  - Zeiss AxioObserver inverted microscope with Apotome, incubator, and LED illumination for long-term multi-location timelapse imaging
  - Total Internal Reflection Fluorescence (TIRF) microscope for high-res imaging of biological surfaces

- Laser Capture Microdissection (LCM)
  - Image analysis station equipped with Imaris, ImagePro Plus, Volocity, Metamorph, AutoQuant deconvolution, Slidebook, Adobe Illustrator, Photoshop
  - PM Cancer Centre (11th floor, ARC)
    - Xenogen IVIS Spectrum in vivo imaging systems: for quantitative, non-invasive bioluminescence and fluorescence imaging of living animals and cells, including spectral un-mixing and 3D tomography
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## Unique Capacities

For details on the unique capabilities of the equipment, please visit our website:

<http://www.aomf.ca/equipment.html>.

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## Using the Facility

- Equipment and services available for UNH investigators and external users
- Trained users book using [online calendar](#), maximum 8 business hours/week/instrument

## Training

- Preliminary training by [AOMF](#) staff is mandatory, or ask about our full-service imaging
- General courses offered on optical microscopy and image analysis
- For a complete list of courses: <http://www.aomf.ca/coursesmain.html>

## Usage arrangements

- For a complete pricing list: [http://www.aomf.ca/pdfs/AOMF\\_FeeSchedule.pdf](http://www.aomf.ca/pdfs/AOMF_FeeSchedule.pdf)

## Sample Preparation

Cell culture facilities are available at our [TGH](#) site. Please contact us for more information.

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## Quick Links

- [Webpage](#)
  - [Booking Calendar](#)
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## Contacts

### [James Jonkman](#)

General Manager

416-581-8594