

USER FEES FOR THE MICROBIOLOGY & IMMUNOLOGY WIDEFIELD MICROSCOPE FACILITY

Note that training is mandatory for all new users and that training must be provided by the technician assigned to the equipment. Please send any equipment-specific enquiries to the respective technician. General enquires should be sent to Bryan Heit (bheit@uwo.ca). Three instruments and two analysis computers are available via this facility:

1. **Widefield Microscope:** This is a specialized instrument built for long-term/high-speed live-cell imaging and super-resolution approaches including single-particle tracking and SRRF imaging.
2. **Cryostat:** Used for cutting thin sections from frozen tissue samples.
3. **Tissue-Imaging Microscope:** A wide-field microscope designed for fluorescent and white-light imaging of tissue sections.
4. **Deconvolution Computer:** Windows workstation pre-loaded with an analysis copy of Leica's LAS-X software. To be used for deconvolving images from the widefield microscope, or for performing basic analyses and image export from either the widefield or tissue-imaging microscopes.
5. **Image Processing Computer:** Linux workstation pre-loaded with a large suite of image analysis software. Available programs include: MATLAB, FIJI, ImageJ, CellProfiler, Ilastik, and ChimeraX.

All instruments are located in the Health Sciences Addition, room 301. All computers are located in Medical Sciences Building, room 387.

User Fees:

Use of the microscope is based on the time booked by users using our new on-line booking system (available at <http://phagocytes.ca/calendar/>). Users are limited to 2 hours/day between 8 AM and 4 PM on weekdays, and there are no limits on evening or weekend bookings. There are no restrictions on sign-up for the deconvolution or analysis computers.

Equipment	Fee
Widefield Microscope	\$10/hr
Cryostat	\$10/hr
Tissue-Imaging Microscope	\$10/hr
Deconvolution Computer	Free
Analysis Computer	Free

Training – Widefield Microscope (Health Sciences Addition room 301):

Please contact Angela Vreize to arrange for training (akipp4@uwo.ca).

Training Session	Fee	Topics Covered
Introductory Training	\$50	Covers all topics required for imaging of fixed samples. Includes training in microscope setup and alignment, proper microscope operation, configuring basic acquisitions, Z-stacking, and tiling. This is mandatory training for all new users. Time: ~1 hr.
Live-Cell Training	\$50	Teaches the basics of live-cell imaging, including use of the environmental control system, time-lapse imaging, point-visiting, and optimizing acquisitions to minimize photodamage. Time: ~1 hr.
Deconvolution Training	\$25	Demonstration on how to properly setup and run deconvolution, using the dedicated deconvolution system. Users must bring at least one z-stack they have acquired to this training. Time: ~30 min.
Specialized Training	\$50/hr	1-on-1 training for specialized methods, or for assistance in experiment design. Methods include single molecule microscopy, single particle tracking, donor-bleaching FRET, ratiometric imaging, Super-Resolution Radial Fluctuation (SRRF) imaging, image analysis in FIJI, and more.

Training - Cryostat (Health Sciences Addition room 301):

Please contact Heather Craig to arrange for training (hbrought@uwo.ca).

Training Session	Fee	Topics Covered
Cryostat	\$50	Safe and proper use of the cryostat. Time: ~1 hr.
Frozen section preparation	\$50/hr	1-on-1 advice on how to prepare frozen samples for sectioning.

Training – Tissue-Imaging Microscope (Health Sciences Addition room 301):

Please contact Heather Craig to arrange for training (hbrought@uwo.ca).

Training Session	Fee	Topics Covered
Introductory Training	\$50	Covers all topics required for imaging immunofluorescent or white-light samples. Includes training in microscope setup and alignment, proper microscope operation, configuring basic acquisitions, and tiling. This is mandatory training for all new users. Time: ~1 hr.
Specialized Training or Re-Training	\$50/hr	1-on-1 assistance in experiment design or image acquisition.

Training – Computers (Medical Sciences Building room 387):

Please contact Angela Vreize to arrange for training (akipp4@uwo.ca).

Training Session	Fee	Topics Covered
Deconvolution Training	\$25	Demonstration on how to properly setup and run deconvolution, using the dedicated deconvolution system. Users must bring at least one z-stack they have acquired to this training. Time: ~30 min.
SRRF Processing	\$50	Demonstration of how to process SRRF acquisitions, SRRF time-lapses, and to generate multi-channel SRRF images. Users must bring a SRRF acquisition to this training session. Time: ~1 hr.
FRET Analysis	\$50	Training in FRET analysis using our seFRET package. Users must bring a complete FRET acquisition, including all required control images, to this session. Time: ~1 hr.
Specialized Training	\$50/hr	1-on-1 training and assistance with image processing, image analysis, or general use of our image analysis software.

User & training fees as of Aug 13th, 2019.