

General overview

The Optical Imaging and Analysis Facility is centrally located on UB's South Campus within the Health Sciences Complex and houses several high-end research instruments available to all university investigators and outside researchers. The instrumentation includes two fully motorized research microscopes: an Andor Dragonfly spinning-disk confocal microscope with incubation, and a Zeiss Axio Observer inverted fluorescent microscope; as well as a ScanCo μ CT 100, a BD LSR SORP Fortessa eleven-color cell analyzer, a BD FACSAria seven-color cell sorter, a PerkinElmer IVIS Lumina III, an RS 2000 small animal irradiator, a Thermo-Fisher NanoDrop One spectrophotometer, a gel imager (Bio-Rad GelDoc EZ), a multimode gel and blot imager (Bio-Rad ChemiDoc), a real-time qPCR thermocyclers (Bio-Rad CFX Connect), and a luminescence and fluorescence microplate reader (BioTek Synergy HT). The facility staff carry out an educational outreach program on best practices in data acquisition and analysis, and provide one-on-one hands-on training for all facility instrumentation. Additionally the staff are available to assist with any post-acquisition data processing and analysis needs.