[**Harvard Center for Biological Imaging**](http://hcbi.fas.harvard.edu)

**URL:** <http://hcbi.fas.harvard.edu>

**Faculty Director:** Jeff Lichtman

**Director of Imaging:** Douglas Richardson

**Description:**

*Square Footage:1700*

*Facility Location:* Biological Laboratories Room 2052

The Harvard Center for Biological Imaging (HCBI) has been created to foster collaborative light microscopy research in the most state-of-the-art facility available. To do this, the HCBI entered a unique partnership with our supplier whereby the center’s microscopy systems are continually replaced every 2-3 years ensuring HCBI researchers always have access to the most current equipment. The facility is open 24 hours/day, 7 days/week and access to the facility is open to all Harvard investigators as well as to affiliates and investigators from external institutions and industry.

**Major Equipment**

* Zeiss Lightsheet Z7
* Zeiss ELYRA7 Super-Resolution Microscope (TIRF, 3D-lattice SIM, and 3D PALM/STORM)
* Zeiss LSM 980 (inverted) fully spectral Confocal Microscope with incubation and Airyscan.2
* Zeiss LSM 880 (inverted) fully spectral Confocal Microscope with fluorescence lifetime (FLIM) detection
* Zeiss 2-Photon 980 (upright) fully spectral Confocal Microscope with multi-photon capabilities (Spectra-Physics X3 Insight laser tunable from 680-1300nm)
* Zeiss LSM 900 (inverted) Confocal Microscope with automated sample finder
* Zeiss AxioZoom V16 Motorized Fluorescence Zoom Microscope with Photometrics Prime 95B camera
* Zeiss Cell Discover automated high content screening microscope
* Zeiss LSM 700 Inverted Confocal Microscope
* Zeiss PALM Laser Capture Microdissection Microscope
* Zeiss AxioScan.Z1 High Speed Slide Scanners with 100 slide capacity and brightfield, polarized light, or fluorescence imaging capability
* Over 1 PT of data storage and remotely accessible graphics workstations running Imaris, Arivis, Fiji/ImageJ and ZEN image processing software

**Services**

* Light microscopy imaging and microscopy training.
* Assistance with experimental design
* Assistance with image analysis
* Assistance/consultation regarding the purchase of microscopes and related equipment
* Basic microscopy education sessions and teaching