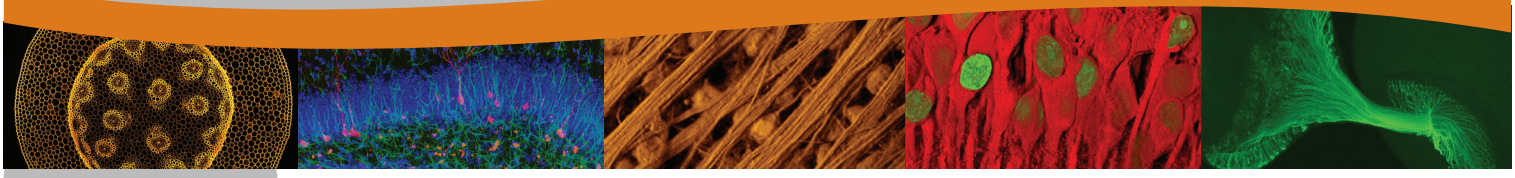
OHSU Research Cores and Shared Resources

Advanced Light Microscopy

OHSU cores are your campus technology partners dedicated to the success of your project. For optimal results, take advantage of the state-of-the-art scientific resources within the OHSU community.

www.ohsu.edu/cores



The Advanced Light Microscopy Core @The Jungers Center offers researchers at OHSU access to a wide variety of high-end light microscopes and, equally important, expert advice and guidance with modern technologies in fluorescence microscopy.

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Mission

We are here to help the biomedical research community at OHSU take advantage of current methods in fluorescence microscopy. We train users on instruments best suited for their applications and sample preparations and support them in their efforts to quantify and analyze the acquired digital images. Our line-up of instrumentation and expertise covers a wide spectrum of applications, including imaging at the highest resolution possible and capturing time-lapse images of living cells and small model organisms.

Services

Take advantage of our full assistance – rely on our experience to get you the images you need efficiently, saving you time and money. Or opt to get trained one-on-one on our instruments using your own sample – once proficient, you can schedule time for independent instrument use and take advantage of discounted pricing at off-hours.

Microscopes

- Super-Resolution Setup for Airyscan Detection, Structured Illumination and Single Molecule Localization Microscopy *(Zeiss Elyra PS.1 LSM 710)*
- Laser Scanning Confocal Microscopes *(Zeiss LSM 880 Airyscan and LSM 780, Olympus FV1000)*
- Spinning Disk Confocal Microscopes *(Yokogawa CSU-X1 on Zeiss Observer and CSU-W1 on Nikon TiE)*
- Multiphoton Laser Scanning Setups *(Zeiss LSM 7MP and Zeiss LSM 880 Airyscan)*
- Lightsheet Microscope *(Zeiss Lightsheet.Z1)*
- Incubator Microscope *(Essen IncuCyte ZOOM)*
- Automated Slide Scanner *(Zeiss Axioscan.Z1)*
- Image Restoration by Deconvolution Microscope *(GE/API CoreDv)*
- Automated Fluorescence and Transmitted Light Microscope *(Zeiss ApoTome.2)*

Image Analysis and Visualization

We have several high-end workstations with image analysis and visualization software to work with your multi-dimensional data. Explore new ways of analyzing and visualizing your images in 3D!

OHSU

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