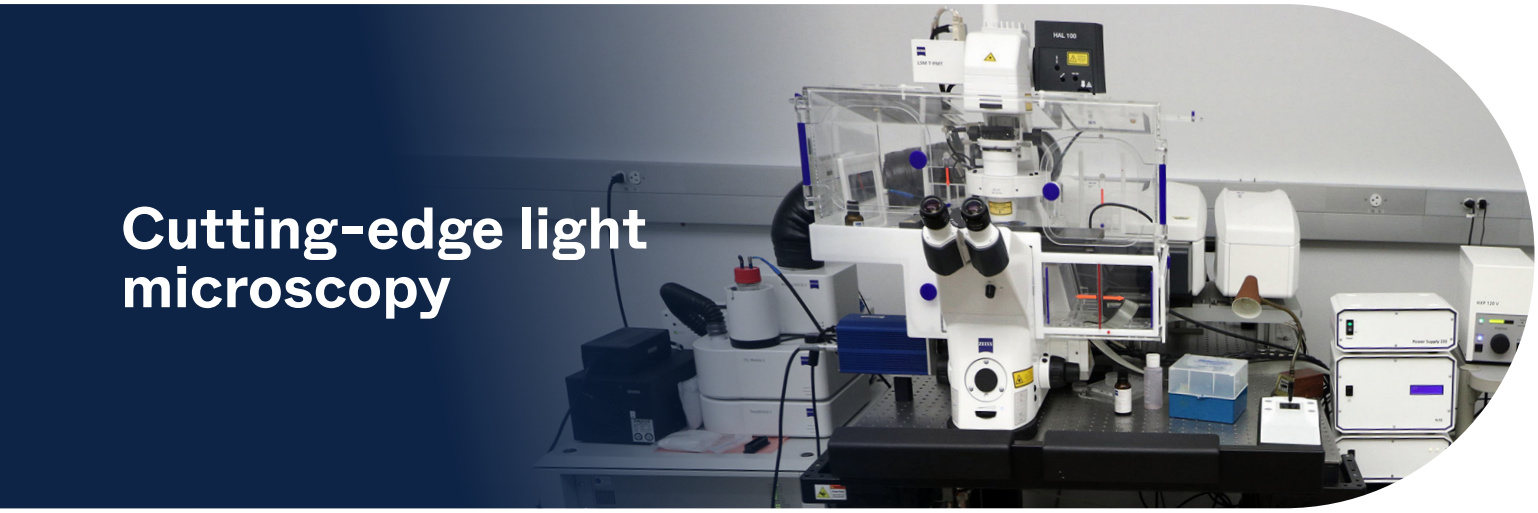
UMass Boston

Imaging Core Facility



Cutting-edge light microscopy

About Us

The Imaging Core Facility at UMass Boston is available for a wide range of specialized imaging tasks. Researchers benefit from key resources:

- High-resolution confocal and super-resolution imaging
- Live-cell imaging and time-lapse experiments
- Multicolor fluorescence and multiplexed imaging/spectral imaging
- 3D imaging and Z-stacking
- Quantitative and advanced fluorescence techniques
- Training and user support

Equipment

The Imaging Core Facility is home to a **Zeiss LSM 880** with the **Airyscan Module**, a high-performance laser scanning confocal microscope. It is designed for advanced fluorescence imaging in both fixed and live specimens. The system is based on the Zeiss Axio Observer.Z1 inverted microscope stand and is equipped with a full range of objectives (10x, 20x, 40x, 63x, and 100x), lasers (405, 458, 488, 561, and 633 nanometers), and detection filters to allow imaging of multiple fluorophores. A super-resolution Airyscan module is included, as well as an environmental chamber for long-term imaging of live cells.

Alexey Veraksa, PhD

Professor of Biology and Imaging Core Facility Director

As the director of the Imaging Core Facility, Professor Veraksa oversees the operation of the Zeiss microscope and provides training to both internal and external clients. In his research, he explores developmental signaling pathways using the fruit fly *Drosophila melanogaster* as a model organism.

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UMass Boston Research Core Facilities

Contact us to find out more about our services!

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