

Cellular Imaging

Research Administration
Seattle, WA • 501(c)(3) Nonprofit



Fred Hutch's Shared Resources are catalysts for lifesaving discoveries. This uniquely centralized program of 15 specialized core facilities and scientific services drives advances by integrating dedicated experts and cutting-edge technologies across the entire research pipeline, from basic science to clinical trial.

LaVision Ultramicroscope II

Light sheet microscope

Excitation Sources Lasers

- NKT white light laser (470, 500, 520, 560, 595, 630 and 785 nm)

Emission Filters

- 525/50, 540/30, 585/40, 620/60, 650/50, 680/30, 845/55

Objective

- 2x/0.5; zoom factor 0.63-6.3

Camera

- Andor Neo sCMOS

Capabilities

- Low-resolution fluorescent images of large-volume objects

Recommended uses

- Organs
- Tissue sections
- Transparent or cleared organisms

General information

The light sheet microscope illuminates a sample with an adjustable plane of laser light, detecting fluorescence perpendicular to the illumination path. The LaVision Ultramicroscope illuminates bidirectionally with three focused light sheets, reducing shadowing artifacts. Selective excitation of the focal plane reduces bleaching and phototoxicity significantly. This microscope is optimized for the imaging of large cleared samples, but it also can be used for in vivo imaging at room temperature.

Specifications

- Seven excitation lines (470, 500, 520, 560, 595, 630 and 785 nm)
- Zoom magnification range: 0.63x to 6.3x
- Built on an Olympus SZX2 Zoom body

LEARN MORE

Cellular Imaging Core
206.667.4205
imaging@fredhutch.org

