

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.

Nikon Eclipse Ni-U Widefield

Widefield upright microscope

Excitation sources

- D-LEDI, LED, wavelengths (nm): 385, 475, 550, and 621
- White light LED

Objectives

- 4x/0.2 (air)
- 10x/0.45 (air)
- 20x/0.75 (air)
- 40x/0.75 (air)
- 60x/1.4 (oil)
- 100x/1.40 (oil)

Cameras

- Photometrics Prime BSI Express sCMOS, monochrome camera
- Nikon DS-Fi3 color camera

Capabilities

- DIC, polarization, brightfield, and color imaging
- Widefield 4-color fluorescence imaging
- Manual tile stitching acquisition

Recommended uses

- Fixed fluorescence imaging
- Colocalization studies
- Histological slide imaging

General information

The Nikon Eclipse Ni-U microscope is an upright widefield microscope. It is suited for imaging fixed samples mounted on a microscope slide and can be used to screen samples before using other microscopes. The Ni-U excites the standard blue, green, red, and far-red fluorophores. It can also be used with a color camera to acquire images of histological samples. It is configured to be an intuitive, user-friendly microscope.

LEARN MORE

Cellular Imaging Core
206.667.4205
imaging@fredhutch.org



Channel	Excitation (nm)	Detection Range
DAPI	385	435-485 nm
GFP	475	500-550 nm
RFP	550	573-648 nm
Cy5	621	663-738 nm