

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 E800

Fixed-stage, upright, transmitted light and fluorescence microscope

Excitation sources

- X-cite lamp

Objectives

- 10x/0.45 (air)
- 20x/0.75 (air)
- 40x/0.9 (air)
- 40x/1.3 (oil)
- 60x/1.40 (oil)
- 100x/1.3 (oil)

Cameras

- Zeiss AxioCam MRc, 5MP 36-bit (3x12-bit) — color camera
- Zeiss AxioCam HRm, 14-bit monochrome — fluorescence camera

Capabilities

- Transmitted light
- Phase contrast
- DIC
- Fluorescence (blue, green, red, far red)

Recommended uses

- Transmitted light
- Fluorescence
- Immunohistochemistry
- DIC
- Phase contrast
- Image capture of fixed specimens (slides)

General information

The Nikon Eclipse E800 is an upright, fixed-stage microscope, suitable for collecting 2D images (no Z stacks) in transmitted light and/or fluorescence mode. The microscope is all-manual and easy to use. Fluorescence channels include blue, green, red and far red channels (for DAPI, FITC, Rhodamine, Texas Red, Cy5, and similar dyes). Transmitted light imaging includes phase contrast and differential interference contrast, or DIC. The microscope is fitted with a sensitive, high-resolution monochrome camera for fluorescence image capture (Zeiss AxioCam HRm) and a high-quality Zeiss AxioCam MRc color camera for true-color transmitted light imaging. Both cameras are controlled by easy-to-use Zeiss Axiovision software.

| FILTER | EXCITATION | EMISSION |
|----------|------------|----------|
| DAPI | 330-380 | 435-485 |
| FITC | 460-500 | 510-560 |
| TRITC | 530-550 | 590-650 |
| TexasRed | 540-580 | 600-660 |
| Cy5 | 590-650 | 660-740 |

LEARN MORE

Cellular Imaging Core
206.667.4205
imaging@fredhutch.org

