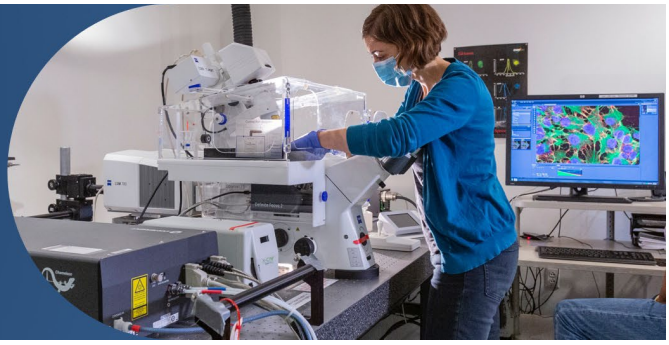
Fred Hutch
Cancer Center

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.

LEARN MORE

Cellular Imaging Core
206.667.4205
imaging@fredhutch.org

Molecular Devices ImageXpress Micro Confocal

High-content imaging

Excitation sources

- Excitation LEDs: 377, 475, 531, 560, 631 nm
- Brightfield halogen lamp

Objectives

- 4x/0.2 (air)
- 10x/0.45 (air)
- 20x/0.7 (air)
- 40x/0.95 (air)
- Upon request 10x/0.3 Phase
- Upon request 20x/0.45 **Phase**
- Upon request 40x/0.6 Phase

Cameras

- Andor Zyla sCMOS

Capabilities

- Brightfield, phase-contrast, and RGB color imaging
- Widefield or spinning disk confocal 5-color fluorescence imaging
- High-content imaging on microtiter plates
- Automated slide tiling

Recommended uses

- Low and medium-resolution imaging on microtiter plates, live or fixed

General information

The Molecular Devices ImageXpress Micro is a high-content imaging system with both widefield and confocal fluorescence capabilities. It is suited for imaging fixed or live samples in a variety of vessel formats, but principally multi-well plates. ImageXpress acquisition types are flexible and can include large image tiling and z-stacks, making it well suited for spheroid and organoid imaging, u-bottom wells, and whole-well imaging with any objective. The system can be heated and provide CO_2 to support living cells for a single timepoint or imaging over multiple days. It is a user-friendly microscope once your acquisition parameters have been established. Staff support is available for setting up new vessels and/or protocols.