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-LED, 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.

<table>
<thead>
<tr>
<th>Channel</th>
<th>Excitation (nm)</th>
<th>Detection Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAPI</td>
<td>385</td>
<td>435-485 nm</td>
</tr>
<tr>
<td>GFP</td>
<td>475</td>
<td>500-550 nm</td>
</tr>
<tr>
<td>RFP</td>
<td>550</td>
<td>573-648 nm</td>
</tr>
<tr>
<td>Cy5</td>
<td>621</td>
<td>663-738 nm</td>
</tr>
</tbody>
</table>