Pathology Core Facilities Overview
5th floor CTW
Purpose

• To inform you of equipment available for common use.
• To review protocols for use.
• To solicit your help in maintaining equipment.
• To inform you that use of Pathology Core equipment and/or services requires that you cite specific grants in publishing data that was obtained.
How can you help?

• Reserve through PPMS before using microscopes (important for maintenance contracts and for general monitoring of equipment).

• Receive training on each microscope prior to use to assure that equipment is kept in good operating condition.

• Keep things clean

• Be regular monitors yourselves, if you don’t like something you see, tell the person using the equipment

• Cite appropriate grants for when publishing your exciting findings
5th floor microscopes

General Policy: Each microscope has filter controls etc in slightly different places. The newer Nikons have a special flip-down or slide-in lens for the 4x objective.

If you are using a particular microscope for the first time, ask Wendy (wkatz@uky.edu) or an experienced user from your lab for an orientation.
CTW Room 551: Nikon Eclipse 80i Upright with fluorescence

12 MP color camera.
Objectives:
- 4X Plan Fluor
- 10X Plan Fluor
- 20X Plan Apo
- 40X Plan Apo
- 60X, 100X*

*by prior arrangement with Wendy wkatz@uky.edu

Motorized stage with image stitching software
NIS Elements imaging and analysis software
CTW 551: Nikon Eclipse 80i

• This microscope is primarily for high resolution imaging.
• Please sign up to use the microscope.
• Please move the objective to 4X to insert slides and remove slides from the stage.
• Please do not remove objectives from the microscope.
• The 40X objective is NOT an oil objective. The 60X and 100X are. If you use oil on your slide do NOT use the 20 or 40X objectives as the oil will ruin the objectives.
• If you aren’t sure ASK.....
Additional objectives

- 60X Plan Apo
- 100X Plan Fluor
(both oil objectives)

Wendy has them.

For use on *upright* (Eclipse 80i) microscope
Can *NOT* be used on the inverted microscope
Make arrangements with Wendy at least 24 hrs in advance
Motorized stage in 551

- Joystick control
- Rapid navigation options in software
- Permits automated stitching of multiple fields
CTW Room 599B: Inverted with fluorescence

Monochrome camera.

Objectives:
- 2X Plan
- 4X Plan Fluor
- 10X Plan Apo
- 20X Plan Fluor
- 20X Plan Apo
- 40X Plan Fluor
CTW Room 564: Nikon Eclipse 80i

- Color camera
- Objectives:
  - 4X Plan Fluor
  - 10X plan Fluor
  - 20X Plan Fluor
  - 40X Plan Fluor

NIS Elements imaging and analysis software
564 Nikon Eclipse 80i

• This microscope is primarily for imaging tissue sections and quantification.
• Please sign up to use the scope.
• Nikon NIS Elements Software for quantification (athero, renal....).
• Please use this scope for quantification rather than the scope in 551.
• Please move the objective to 4X to insert slides and remove slides from the stage.
• Again if you have a question ASK.....
CTW Room 564: Nikon Eclipse 55i Upright

Located between embedding center and microtome.

Color camera.

Objectives:
- 4X Plan
- 10X Plan
- 20X Plan
- 40X Plan
- 100X Plan (Oil)

NIS Elements imaging and analysis software
CTW Room 564: Nikon Inverted microscope

Located between embedding center and microtome.

Color camera.

Objectives:
- 2X Plan
- 4X Plan Fluor Phase
- 10X Plan Fluor Phase
- 20X Plan Fluor Phase
- 40X Plan Fluor Phase

NIS Elements imaging and analysis software