

### How to use Fluorescence Microscope

Note: If you are just viewing slides, use the control panel to choose the filter. However, if you plan to take photos, skip from step 4 to step 7.

1. Turn on scope by pushing green button on the right side of the scope
2. Turn x-cite argon power source on shelf above scope. Let warm up for 10 minutes. Also, check log book to make source was not turned off 20 minutes or less ago. (change bulb after 2000 Hrs)
3. To look thru binoculars, push scope lever in to "bino" mode
4. Set objective by rotating the selected objective into place.
5. Use control panel to the right of the scope, to select filter by clicking the cube arrows to rotate through them. (Current Order of Filter: DAPI, FITC, TRITC, Texas Red, Cy5, Brightfield(no filter))
6. Turn on fluorescence by clicking the "shutter" button on control panel.
7. To take picture, turn on computer.
8. Pull the scope lever out to set to "photo" mode.
9. Open NIS-Elements BR 3.10 program on computer.
10. Select filter on toolbar
11. Click Epi button on toolbar (icon looks like a closed shutter) to turn on fluorescence.
12. Click green play arrow to visualize on the monitor.
13. Set Conversion Gain to Low, and set exposure time using box on the right side of the screen
14. Focus and take picture by clicking the camera icon on the toolbar.
15. On photo, click 1:1 button to make picture full size
16. Push Shift+Z to take a snapshot.
17. Save snapshot
18. When finished, Turn off scope, then x-cite argon power source, and then computer.

To use Brightfield on scope.

1. Turn on switch on the back left side of the scope
2. Push green button on the front of the scope in.
3. Set aperture size to minimum size using toggle on the right front of the scope.
4. Set filter to last slot.
5. Visualize.