

## INTRODUCTION

Laser microscopes are sometimes classified as Class 3B/4 laser systems. The UF Laser Safety Program has determined that some of these laser microscopes may be re-classified to Class 1. Microscopes that are re-classified must still be registered with UF EH&S, but during normal operation the laser microscope will be exempt from operational requirements of a Class 3B/4 laser lab.

## REQUIREMENTS

In order to be re-classified, the laser microscope must be seen by EH&S Radiation Safety personnel. If it is determined that there are no special hazards, a re-classification notice will be provided to the lab. The lab will be revisited yearly to ensure safe use. As part of this re-classification, the following requirements will need to be met:

- Operators of the re-classified microscope must have hands-on training.
- Operators of the re-classified microscope must take the online laser safety training (UF\_EHS833\_OLT).
- The re-classification notice must be attached to the SOP for the microscope.
- The SOP must include a statement on the hazard of laser light.
- The SOP must include guidelines for safe use specific to the microscope.
- The SOP must be signed and printed by all operators.

## RESOURCES

### Example Hazard Statements

#### Class 3B

This laser microscope utilizes a Class 3B laser. Class 3B lasers can cause eye injuries if viewed directly or if a specular reflection is viewed directly.

#### Class 4

This laser microscope utilizes a Class 4 laser. Class 4 lasers can cause eye injuries if viewed directly. Diffuse reflections of Class 4 lasers can also cause eye damage. With direct skin exposures, a Class 4 laser can cause burns.

### Example Guidelines

- 1) Do not manipulate the sample when the laser is on except with stage controls
- 2) Do not place objects on the sample stage while the laser is on
- 3) Do not place reflective objects in the path of the laser
- 4) Do not open any laser housings
- 5) Do not allow a non-authorized person to operate the microscope

### Links and Contacts

Registration, training information and UF's Laser Safety Manual may be found at the UF EH&S Laser Safety website:  
<http://www.ehs.ufl.edu/programs/rad/laser/>

Contact [iso@ehs.ufl.edu](mailto:iso@ehs.ufl.edu) or 392-7359 with any questions.