

## George Lab Confocal Microscope *Guidelines for Outside Users*

### System

Model: Olympus FV3000 laser scanning confocal microscope

Objectives: 10x, 20x, 30x oil, 60x, 60x oil

Lasers: 405, 488, 514, 561, 640

Software: We recommend using FIJI (FIJI Is Just ImageJ) to open Olympus image files.

### Training

- To initiate training on the George Lab Confocal Microscope, ***please email the lab manager, Bhupinder Shergill (bdshergill@ucdavis.edu)***. Dr. Shergill will assign you to a “confocal trainers” (grad students and postdocs in the George lab); your trainer will work with you to schedule a training.
- To prepare for your training, please be ready to answer the following questions:
  - a. Describe your experiment and your expected results. Why is confocal microscopy necessary for your application?
  - b. What type of sample do you have, and how is it mounted (slide, plate, etc)? What magnification(s) and dye(s) do you plan to use? Will you be using the z-stack or time lapse features?
- Please bring the following items to your training: lab coat, safety glasses, samples (transport in a hard-sided secondary container), and a lab notebook. We will provide gloves and microscope maintenance supplies. Be prepared to take detailed notes; the goal of the training is for you to learn to operate the microscope independently. Training will take place over one or more sessions.
- Training expires following 3 consecutive months of not using the confocal microscope. Please email the lab manager to schedule a refresher training.

### Scheduling

- The confocal microscope is available to outside users on weekday mornings (before 11 am). To schedule a session on the microscope, please email your trainer and the lab manager with your desired date(s) and time(s). Your reservation will be added to the microscope calendar and confirmed via email; alternate dates and times will be suggested if the microscope is unavailable.
- The lab manager has an extra key to the lab, which can be borrowed to facilitate access to the confocal microscope. This key is available for pick up during normal business hours on the day before your microscope session.

***\*\*This document serves an outline for use of the George Lab confocal microscope by other labs; we reserve the right to edit these guidelines at any time\*\****