

Zeiss 510 Microscope Flow Chart

Phase 1: Set Up

Turn on microscope

Open up software

Open up all windows and arrange them how you like to have them

Turn on the lasers that you need

Set up light paths

Phase 2: Microscope

Clean objective

Put slide holder on stage

Place sample on microscope

Focus

Check how sample looks with each fluorescence used

Select area you wish to image

Phase 3: Acquisition

Select single dye

Make sure pinhole is set and laser power is brought up.

Fast x/y scan

Go into Pallet and select Ranger Indicator

Focus sample

Adjust laser power and gain to get optimal image.

Select next dye and repeat.

When complete go into channels button and select 4 for Number. This is averaging.

Click single for image

Save image. First create data base. Folder should be created locally in E: drive

If needed crop or Z stack

Phase 4: Clean up/Save Data and Turn Off

Take sample off objective

Clean oil off objective

Turn off lasers so they can cool.

Move data to the server

Sign in user log

Close software

Turn off computer

Shut down microscope after fan has turned off

Check calendar and only turn off if no user is signed up within the next 2 hours