

## GENERAL OPERATION

- 1 Turn on epi-fluorescence power supply located on floor to left of microscope.
- 2 Turn on Remote Control box.
- 3 Enter login name and password.
- 4 Double click on Start LSM 510 icon.
- 5 Select Scan new images and start Expert mode.
- 6 Click on Acquire icon of Expert mode window, then start a left to right progression of icons across the bottom of the Expert mode window, starting with Laser.
- 7 In Laser, turn on the required lasers for your experiment.
- 8 Proceed to Micro icon, loading a sample on the stage, finding a visual image in transmitted/fluorescent mode (Check optical path selection on right of microscope base).
- 9 When an image is found, click on Config icon of expert mode window and select a track/recording configuration appropriate for your experiment (Check position of optical path on right side of microscope base).
- 10 Click on Scan icon of Expert mode window. This will pop up a Scan control window, defaulted to mode (use the defaults if uncertain).
- 11 In the Scan Control window, select the channels icon. A base line image can be obtained by clicking on the Find icon along the right side of the Scan control panel.
- 12 For z series acquisition, click on Z-slice box, clicking on optimal z step. To initiate z-series acquisition, click on the 1/1 icon on the right side of the scan control panel.
- 13 Incorrect removal of the removable disk or improper shutdown of the computer can result in data loss. The safest way to achieve data is to save it to the hard drive D:/ or C:/, then copy the data to your removable disk at the end of the session. DO NOT eject your disk prior to computer shutdown. Always wait for the Windows NT <Restart> message to appear, then eject the disk manually. To save images as database, click on the Save icon to right of image. To export as a different type of file, go to the Expert mode window, click on the file icon, then the export icon. REMOVE IMAGES FROM HARDDRIVE AFTER COPYING.
- 14 For shutdown, open Laser window of Expert mode window, and turn off the lasers so they will cool as you finish closing all windows. Shut down the computer, waiting to turn off the Remote Control box until AFTER the cooling fan on the lasers stop.
- 15 Turn off the power supply for the epi-fluorescent bulb.
- 16 Log your usage in the book.