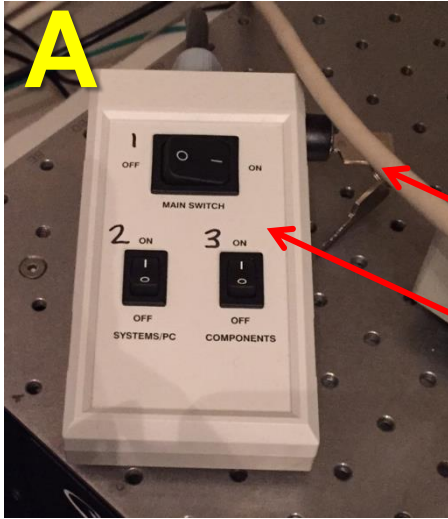# Start-up of the LSM880 multiphoton confocal

a) Make sure an objective is locked into position on the microscope

b) Turn on the PC

c) Check the key is on (horizontal) - it should always be on (**Picture A**)

d) Turn on the MAIN SWITCH **(1)**

e) Turn on the SYSTEMS / PC switch **(2)**

f) Turn on switch **(3)**

f) Turn on the fluorescence bulb (**Picture B**)

g) Start the Zen software

h) Press "Start System"

i) The lasers are turned on in the software: Go to the Acquisition Tab

j) In the laser window turn on the Argon laser – it takes 5 minutes to warm up. It is outlined in RED until it is at full power

k) If using the Multiphoton laser turn this on too (Mai Tai)

Shutdown of the LSM880 multiphoton confocal

If there is a user after you:

- Leave everything on
- Transfer your data
- Put the **argon laser on Standby**, turn off the Mai Tai and all other lasers (**Picture C** on previous page)
- Log out of PPMS

If you are the last user:

- Turn off the lasers in the software (Picture **C**)
- Turn off the fluorescence lamp (Picture **B**)
- Save your data and transfer it using the shared drives
- DO NOT USE USB STICKS OR HARD DRIVES
- Shutdown the software and PC (do not log out of PPMS)
- Turn off switch (3) components (Picture **A**)
- Turn off switch (2) Systems/PC (Picture **A**)
- Wait 5 minutes (until the fan cooling the black box with the laser power supply under the table) has turned off
- After 5 minutes, turn of the Main switch (1) (Picture **A**)
- Check that an objective is in place on the objective turret and half lower it so it is locked in position.