

Zeiss 880 – Basic Instructions

Starting the system for microscopy

- If you do not need epifluorescence, switch off the UV lamp BEFORE starting the system.
- Turn on 1) MAIN SWITCH than 2) SYSTEMS/PC switch, 3) START PC under the table and as the last one start 4) COMPONENTS switch.

Log in as USER: Zeiss880\LSM user (no password)

- (OR to your asuch domain) space
- Start ZEN **black** software and choose START SYSTEM.

Starting the system for image processing only (you do not need microscope)

- Switch the computer on, log in as LSM user, start ZEN black or blue software and choose **image processing**. Do not switch any of switches on the table, it is not necessary.

Microscope

- In LOCATE menu select your optical configuration
- On microscope touch panel select OBJECTIVE you want to use
- Press LOAD POSSITION
- Put the correct immersion on the objective, insert your sample, focus it manually and press SET WORK position. Next time use ∇ to refocus your sample from LOAD POSSITION
- start the fluorecence with hand fluorecence switch
- If you change your sample please ALWAYS go down with table to avoid objective damages. Use LOAD POSSITION on touchpad or ∇ on microscope body, load new sample/slide and refocus with ∇

Acquire Image

- Start lasers you need (it takes few minutes)
- Use ACQUIRE to see the image on the monitor. Select optical CONFIGURATION from database. Adjust gain, pinhole, laser power, optimal resolution. IMPORTANT!!!! LSM880 detection is much more sensitive compared to LSM5. Therefore **laser power should be typically LESS than 2%**. Anything more than 10% is wrong (sample is not focused, Arg laser is in stand-by...). Please do not use high laser power because it reduces the live of the detectors.

Saving your data

- Preferable: save your data on IF disc station <\\ds-ueb-if.ueb.cas.cz/home> OR on your P: drive <\\ds.asuch.cas.cz/home> (you have to map the disc station (see instructions), login as in asuch domain)
- Save your data locally on D:DATA\your name
- Please **do not** save your data anywhere on C: drive!!!! (In case of any problem with system your data would be lost)

Turning off the system: Shut down the computer; turn off switches: components, system/PC and main switch. (Do not do anything with the key).

After Work

CLEAN immersion objectives (if used) (water immersion – just dry) > COVER the microscope > SIGN out in the book

Enjoy! Katka I.**435**, 732 271 456
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