Nikon Andor spinning disc manual

1. Turn on button on a power extension cord –back from the microscope
2. Turn on button on a power extension cord –on the top of the Andor cupboard.
3. Switch on the lamp.
4. Switch on the PC (Password **Welcome2017**)
5. Start **iQ3** software with your account and password. If you do not have your account, ask vita vita@bmb.sdu.dk. Use **Spinning Disc** configuration**.**
6. **Lower objective on the microscope and register the stage BEFORE YOU PUT YOUR SAMPLE.**
7. Install your sample, choose an objective. Choose right filter **FL1** on the microscope control panel. Find the sample using Eye piece
8. Switch the key on the shutter box, keep the shutter closed (red light-shutter is open).
9. Open you measurement protocol or build up a new one. Choose right objective in software in order to have right calibration (for **100x** 100x-oil-Grid 0.06868, for **60x** 60oil-grid 0.11696, for **40x** 40air-Grid 0.16878, for **20x** 20x-air 0.32051).
10. Setup autosave on disc D/ Data/YourFolder
11. Before measurements check that light goes to L100. Open the shutter.
12. **To turn off**: Switch off the shutter, turn the key, remove your sample, wipe the objective with lens paper, close software.
13. **Copy your data and remove them from PC**. **Data are removed every 1st of the month.**
14. Switch off PC, switch off the lamp, switch of power cords. Report in the logbook.

In the case of problem contact: Vita Solovyeva (vita@memphys.sdu.dk) or Jonathan Brewer (brewer@memphys.sdu.dk)

Heating/CO2

1. Switch on heat controller.
2. For CO2-air: Add water to humidifier-5 cm below the top.
3. Wait until temperature in incubator stabilized
4. Switch on air pump
5. For CO2-open wall ventil, pressure should be 2 mbars.
6. On the gas mixer pressure-gauge check that the incoming pressure is 1mbars.
7. Adjust air flow for 0.6 l/min and CO2 flow for 0.03 l/min for 5% CO2.
8. Use special cell for the measurements, connect thermoscouple to the cell and the gas inlet with the tube coming from humidified unit.
9. Do your measurements.
10. When finished, switch off air pump, switch off heat controller, close CO2 valve.