Image Acquisition with ZEN2011

Connect the camera to the mac and insert the dongle (USB-like stick). Boot to windows (hold alt key) and login. **Login/pw: student**
Double-click on the ZEN2011 desktop icon

Before taking an Image
- set file names: **Tools (3)** -> **Options**: Naming
  - set Category to **Snap** and enter **Prefix** (name/ initials, group, course)
  - add date as predefined **Format ID**s

- set chosen objective ■ in the tool bar (**center screen area**)
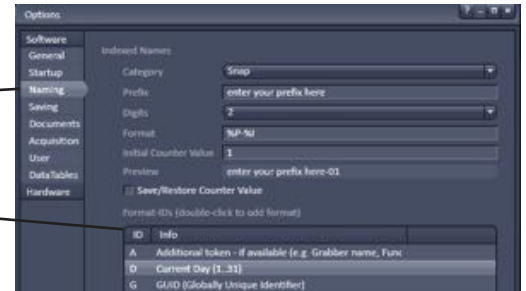 make sure **Scaling automatic** is set in the status bar

left tool area

3

center screen area

click to hide/ show tool areas

1

2

view controls area
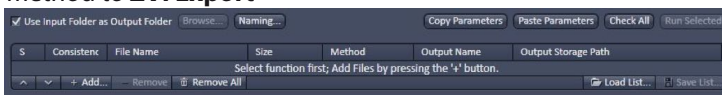
Image Acquisition

- set beamsplitter to camera (out)
- open the **Acquisition** tab ■
  - select **4ChFluorescence (1)**
  - select channels **(2)**
  - click **Live** ■ button,
    (live image is displayed in **center screen area**)
  - adjust focus, if required
- activate **Range Indicator** ■ (**view controls area**),
  blue = under/ red = over-saturated
- **Set Exposure** ■ time automatically, then adjust using the **Time** ■ slider
  - click **Snap**□ to start the acquisition
  -> follow the instructions for switching reflector and/ or light source

- open **Histo** ■ tab (**center screen area**) to **check for over-saturation!**

Enhance visualisation tools
- open **view controls area** and select
  Dimensions □ tab:
  - select visualized channel(s) ■ and
    change/ remove pseudo colors
  Display □ tab:
  - select channel(s) ■ to be modified
  - use **Min/Max** or **Best Fit** to improve visualisation

Save/ Export your files (for ImageJ analysis in ZVI fomat!)
  -> open **Processing** tab ■ -> select **Batch** -> set batch
    method to **ZVI Export**

  - select output folder Browse... or ☑ Use Input Folder as Output Folder
  - + Add... files and define output- Naming... (as descibed above)

  - select files and Run Batch to export files

  Use File -> Save all... (select output folder) to save in CZI format
  Clean up default folder when you are done: C:\Users\student\Pictures\