Homework for the 27th of November

1. Analyse your data the best you can
   - try Zen Black (RDC to the Graphics computer)
   - ZEN Blue (RDC to the Graphics computer)
   - ImageJ (download from the http://fiji.sc/Fiji)

2. Please write down ALL your questions about the softwares

3. Bring all your questions on the 27th, 28th of November and the 1st of December

Data Analysis

1. What is the localisation of your known fluorophore?

2. What kind of controls would you use for this localisation assay?

3. What is the unknown fluorophore(s)?

4. What is the localisation of the unknown fluorophore(s)?

5. What kind of controls would you use for this localisation assay?

6. Please follow the Image editing tasks on the following slide. Feel free to try out more options of the softwares. Please write down **all** your questions and bring them to the lectures about the softwares

Image editing

1. Find out the way to export your file as tif with the highest resolution
   - please have your fluorescent channels and T-PMT separately + their merged image

2. Find out how to get a properly visible scale bar on your image

3. Try different 3D reconstruction methods and export them as:
   - flat tiff image
   - a movie
   - a gif file

4. Please try to exclude first 3 optical slices from your 3D reconstruction

5. Please measure relative intensities of your fluorophore in two 10 mkm^2 areas.

6. Please measure relative intensities of your fluorophore in two 10 mkm^3 areas.

7. Measure the length and width of the cells on your image

8. Measure a square of any cell on your image