

Scientific Image Processing and Analysis

Trainer	Dr. Jan Brocher
Language	English
Date	29 – 30 November 2012, 9.00 – 17.00 h
Location	MMZ (room will be announced later)
Target group	especially Life Sciences
ECTS	1.0

A two-days course on processing of images according to scientific standards and methods on image analyses for scientific presentations, posters and publications.

- Basics of bitmap and vector graphics and application of ImageJ
- Batch processing, automatization, 3D reconstruction and movies
- Reducing noise, background, and the use of filters
- Importance and practical use of colour modes
- Correct resizing, contrast improvement and annotation
- Feature extraction, segmentation and thresholding
- Object counting, tracking and tracing (2D and 3D)
- Measurements and quantifications

You will also learn about scientific ethics along with what kinds of image processing steps can lead to a potential accusation of scientific misconduct.