

Dr. Jan Brocher

Scientific Image Processing and Analysis

21–22 January 2014, 9.00–17.00 h

Auditorium, „Zur Rosen“, Johannisstraße 13

This two-day course on processing of images according to scientific standards and methods on image analysis for scientific presentations, posters and publications covers:

- Basics in Microscopy and Imaging
- Digital Images, Bit-Depth and Color Spaces
- Correct Image Adjustments and Histogram Usage
- Image Segmentation – Extracting Data by Thresholds
- 3D, 4D, 5D Image Data Handling
- Image Annotation and Labeling
- Manual and Automatic Counting of Features
- Tracking Movements (optional)
- Quantitative Image Analysis – Length, Area, Volume, Surface, Intensity...
- Batch Processing – Automation of Repetitive Tasks
- Effective Figure Preparation – DOs and DON'Ts

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

This course is particularly designed for doctoral candidates of the Natural Sciences (esp. Life Sciences):