

Advanced Method Workshop – **Advanced Light Microscopy**

The workshop introduces the basics of optics and physics relevant for light microscopy and the basic set-up of wide field and confocal microscopes, including objectives, light sources and detection systems. Contrasting techniques and protocols and tools for fluorescence microscopy and live imaging (including FRAP and FRET) will be discussed.

In addition to the theoretical background, the workshop offers hands on training in the use of microscopes (conventional, confocal, and on demand specific techniques like live cell imaging and microdissection).

Students should also prepare and bring their own samples.

Roland Foisner will do a general lecture as introduction.

The theory plus the practical hands on sessions will be taught Josef Gotzmann (Bio-Optics Facility).