



Annual Course of the Nikon Imaging Center at the University of Heidelberg  
March 25-29, 2019 at the Bioquant INF 267

## Fluorescence Microscopy Course: Imaging Cells, Organoids and Organs

### Topics:

Understanding image formation  
Optical sectioning in confocal microscopy  
Lateral and axial resolution  
Fluorophores, fluorescent proteins and spectral separation  
Laser scanning confocal microscopy  
Optical aberrations inside biological specimen  
2-photon microscopy  
Lightsheet microscopy  
Deconvolution  
Preparation of live specimens  
Photobleaching and phototoxicity  
CCD cameras  
Signal to noise  
Image analysis

organized by Ulrike Engel,  
Christian Ackermann,  
Nicolas Dross  
Nikon Imaging Center

with Alain Chédotal, Institut de La Vision, Inserm, Paris

supported by Nikon GmbH Germany,  
Andor Technology, AHF Analysentechnik  
and Luxendo GmbH

The course aims at PhD-Students and Post-Docs  
affiliated with the University of Heidelberg

To learn more and register please visit:  
<http://www.nic.uni-hd.de>  
Application deadline is Feb 22, 2019