



Institut für Klinische Anatomie und Zellanalytik

EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN



10th Microscopy Workshop New Trends in Confocal Imaging, Superresolution, and 4D Analysis

Tübingen, Österbergstr. 3, Kleiner Hörsaal/ Seminarraum

Supported by ZEISS Microscopy



September 23-24, 2019

The workshop will give a general overview on optical sectioning approaches with basic confocal training, as well as presenting new techniques in high speed and superresolution microscopy

Preliminary Program

9.30 am Welcome

9.35 am **Trends and New Developments in Confocal and other Optical Sectioning Techniques**

Andreas Mack, Institute for Clinical Anatomy and Cell Analysis, Tübingen

10.15 am **Flexible and Automated Image Acquisition with the New Confocal LSM 9 Family Using the New Multiplex Mode**, *Gert Sonntag*, ZEISS Microscopy

11.00 am **Evaluation of Highlighter Pens as Cheap and Cheerful Samples for Microscope Calibration and Performance Testing**, *Christian Feldhaus*, Max-Planck-Institute for Developmental Biology, Tübingen

11.30 am **Axonal Injury at the Nanoscale Level: New Protein Labeling Techniques for Superresolution Microscopy**
Ivana Nikić-Spiegel, Werner Reichardt Centre for Integrative Neuroscience, Tübingen

12 pm Lunch and Coffee Break

12.45 pm **Latest Advances in Superresolution Microscopy – With the Recently Launched ZEISS Elyra 7 Featuring Lattice Structured Illumination Microscopy (SIM)**, *Sven Poppelreuther*, ZEISS Microscopy,

1.30 pm **Interactive Exploration of Large Image Data 2D/3D/4D**

Tamara Manuelian, arivis AG

2.00 pm **ZEN Intellesis for Image Segmentation in Microscopy. Use the Power of Deep Learning to Easily Segment Your Images**, *Ralph Seidenfaden*, ZEISS Microscopy

2.30 pm **Hands- on Rotation**

- 1) Basic confocal LSM-training
- 2) LSM 900
- 3) LSM 980
- 4) arivis Vision 4D, image analysis software and 3/4D reconstruction
- 5) Light Sheet Microscope
- 6) ZEISS Intellesis image analysis

September 24 Hands- on Rotation 1 - 6

Please register at:

<https://www.zeiss.com/microscopy/int/dynamic-content/training-and-education/laser-scanning-microscopy-courses/2019/zoyc-new-trends-in-confocal-imaging-superresolution-and-4d-analysis-.html>

if you have problems with this link go via <https://www.zeiss.de/mikroskopie/home.html>
or use the

local contact: Dr. Andreas Mack, an.mack@uni-tuebingen.de

