



Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG)  
Pfotenhauerstr. 108  
01307 Dresden

## March 11-12, 2014

### March 11

9:00

Welcome and Introduction

**Jan Huisken** (MPI-CBG) & **Michael Möller** (Nikon)

9:15

Organizing principles of the bacterial z-ring and the eukaryotic centriole:  
tiny, multi-protein machines

**Suliana Manley** (EPFL, Lausanne)

9:50

Quantitative super-resolution microscopy of cellular structures

**Mike Heilemann** (Johann Wolfgang Goethe-University, Frankfurt)

10:25

*coffee break*

11:00

Superresolution - a new world of discovery beyond the diffraction limit

**Niklas Senghaas** (Nikon)

11:35

Structured illumination and the analysis of single molecules in cells

**Rainer Heintzmann** (Friedrich-Schiller-University, Jena)

12:10

Spatial light modulators in optical imaging

**Monika Ritsch-Marte** (Medical University Innsbruck)

12:45

*lunch break*

13:45

Optogenetic dissection of oculomotor circuits in zebrafish

**Aristides Arrenberg** (Albert Ludwig University, Freiburg)

14:20

Towards a dynamic map of neuronal circuits

**Alipasha Vaziri** (University of Vienna)

14:55

Mapping and correcting optical aberrations in thick tissues with adaptive optics

**Delphine Débarre** (Laboratory of Interdisciplinary Physics, St. Martin d'Hères)

15:30

*coffee break*

16:00

Advanced multiphoton imaging of embryos:  
multicolor and light-sheet illumination

**Willy Supatto** (Ecole Polytechnique, Palaiseau)

16:35

High-speed light sheet microscopy

**Jan Huisken** (MPI-CBG)

17:10

Challenges and results in X-ray in-vivo phase contrast tomography

**Ralf Hofmann** (Karlsruhe Institute of Technology)

### March 12

9:00 - 16:00

**Hands-on Sessions (Nikon)**

