



BioImaging Day Program 2021

Tuesday, May 11, 2021

Welcome and Introduction

09:00 – 09:30 ***Something has changed...***
Hartmann Harz; Head of the Center for Advanced Light Microscopy (CALM) in the Department of Human Biology and Bioimaging, LMU

Session 1 Molecules

09:30 – 10:00 ***Cryo Electron Tomography: The Path to Visual Proteomics***
Daniel Bollschweiler; Max Planck Institute for Biochemistry (MPIB)

10:00 – 10:30 ***Cryo Electron Microscopy: Near Atomic Resolution via Single Particle Analysis***
Katja Lammens; Gene Center Munich

10:30 – 11:00 Meet-the-speaker breakout sessions Bollschweiler, Lammens, Harz

11:00 – 11:30 Break

Session 2 Subcellular Tissues

11:30 – 12:00 ***Superresolution Microscopy: How to weather the STORM with STED!***
Robert Kasper; Head of the Imaging Facility at the Max Planck Institute of Neurobiology

12:00 – 12:30 ***Fluorescence Lifetime Imaging Microscopy (FLIM): from just another acronym to real world applications***
Mariano Gonzalez Pisfil; Biomedical Center (BMC)

12:30 – 13:00 Meet-the-speaker breakout sessions Kasper, Gonzalez Pisfil

13:00 – 14:00 Lunch break

Session 3 Subcellular Tissues

14:00 – 14:30 ***Live is life - Measuring protein dynamics in live cells with multipoint confocal microscopy, fluorescence recovery after photobleaching, and optogenetics***
Andreas Ettinger; Institute of Epigenetics at the Helmholtz Center Munich

14:30 – 15:00 ***Two photon laser scanning microscopy in cardiovascular research***
Remco Megens; Head of the Institute for Cardiovascular Prevention (IPEK) Advanced Optical Imaging Facility in the LMU Klinikum

15:00 – 15:30 ***Scalable tissue clearing and imaging technologies for unbiased studying of entire organisms***
Igin Kolabas; Institute for Tissue Engineering and Regenerative Medicine (iTERM)

15:30 – 16:00 Meet-the-speaker breakout sessions Ettinger, Megens, Kolabas

Session 4 Computational Analysis

16:00 – 16:30 ***Expanding the capabilities of microscopy through image processing***
David Hörl; Head of the computational image analysis team at the LMU Chair for Human Biology and Bioimaging

16:30 – 17:00 ***Cell detection and segmentation with machine learning***
David Bunk; LMU Human Biology and Bioimaging

17:00 – 17:30 Meet-the-speaker breakout sessions Hörl, Bunk

17:30 End, closing remarks



Meet



See



Hear



Ask

Organizers:

IRTG-SFB 1064 Chromatin Dynamics | IRTG-SFB 1243 Cancer Evolution | IMPRS for Molecular Life Sciences | IRTG-SFB 914 Leukocyte Trafficking | IRTG-SFB 1054 Cell-Fate Decisions in Immune Systems | IRTG 1123 Atherosclerosis: Mechanisms and Networks of Novel Therapeutic Targets | GRK 2338 Targets in Toxicology