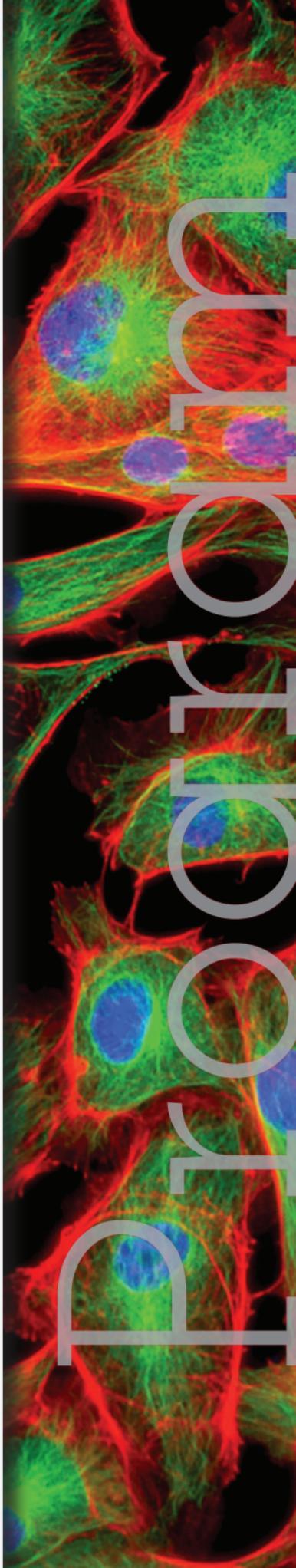


70th

Mosbacher
Kolloquium

April 4 - 6, 2019

„High-resolution
imaging of cells
and molecules“



Scientific Board

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 University Medical Center of Göttingen
 and Max Planck Institute for Biophysical
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Dear Colleagues,

The annual spring meetings of the German Society for Biochemistry and Molecular Biology (GBM e.V.) are traditionally held in the beautiful town of Mosbach. They provide a platform for scientists to exchange ideas and inspire young leaders in their future research endeavors. The topic of the 70th meeting concerns "High-resolution imaging of cells and molecules".

In recent years, super-resolution light microscopy and electron cryo-microscopy have pushed the limits of our ability to view the microscopic world, broadened the application spectrum of these techniques and inspired new research directions. Today, it is

not only possible to elucidate the structure of individual proteins using electron cryo-microscopy, but also to determine their exact distribution in the cell using super-resolution light microscopy. The correlative methods developed in recent years have expanded the range of application by combining light microscopy with electron microscopy.

During this meeting, the application of microscopy techniques and new potential synergies of the two previously separate fields of light and electron microscopy will be discussed by world-renowned experts who are not only dedicated to the further development of these methods but who also actively use them in their own fields of research.

By providing a platform to share and reflect on the potential applications of these techniques, we also hope to inspire future leaders in these fields. In light of this, we will provide the opportunity to promising young researchers to present their work to an international audience.

Your presence at this meeting is greatly appreciated. We look forward to a great conference.

Warm regards,
Stefan Jakobs
Stefan Raunser



City hall



Market place



Congress center „Alte Mälzerei“

16:00

Arrival and registration

16:45 - 17:45

How to build a career in science management: Advice from the expert

What is science management, which opportunities are offered in this field and which skills and interests are required?

Britta Mädge reports on her experiences as program director at the German Research Foundation (DFG), her current position, and as senior editor for the journal "Cell". Her lecture is followed by a discussion with all participants.

Darre

Britta Mädge will also be available for one-on-one conversations during the Mosbacher Kolloquium (upon request).

18:00 - 19:30

Introductory lecture („Primer“)

with following panel discussion on current topics in cellular and molecular imaging

20:00

Welcome reception /Get together

The steering committee of the German Society for Biochemistry and Molecular Biology (GBM) and the city of Mosbach invite you to a welcome reception in the city hall (Rathaus, Marktplatz/ Hauptstraße) in Mosbach (to end at about 10 pm - no registration required)

City hall

We thank the city of Mosbach for the kind hospitality.

Opening remarks
Stefan Raunser/ Stefan Jacobs (Scientific board)

Session 1: Light microscopy (from super-resolution to light sheet microscopy)
(09:00 - 12:00 /Chair: B. Schwappach)

09:00 **Philippe Bastiaens** /Dortmund [DE]
A synthetic out-of-equilibrium morphogenic system

09:30 Short talk:
Philipp Hoess /Heidelberg [DE]
A new approach to reconstruct dynamics from static super-resolution images to study clathrin-mediated endocytosis

09:45 **Katrin Willig** /Göttingen [DE]
Intravital STED microscopy of synaptic proteins in the mouse cortex

10:15 Coffee break

10:45 **Jörg Bewersdorf** /New Haven [USA]
3D and Multicolor Live-cell Super-resolution Microscopy for Cell Biological Research

11:15 **Jan Huisken** /Madison [USA]
Smart light sheet microscopy for you and me

12:00 Lunch break

12:00 Lunch sessions (p. 10f)

12:00 - 13:30

GBM Young Investigators:
Facilities: Making cutting-edge technology accessible

(Chair: J. Hennig/T. Stauber/J. Lassak)

This event organized by the GBM Young Investigators will give insight into how to start, run and be part of a facility and will be arranged in form of a panel discussion. Each invited speaker will have 10 minutes to present themselves and their views on core facilities with a focus on high-resolution imaging. This will be followed by a joint discussion and a Q&A for the audience.

The following topics and more will be covered:

- obtain funding to run a facility
- facility management
- emerging technologies, how to stay at the top
- making it accessible
- job opportunities

Guests:
John Briggs (MRC-LMB, Cambridge)

Rainer Pepperkok (EMBL Heidelberg, Head of Core Facilities)

Wim Hagen (EMBL Heidelberg, cryo-EM facility head)

Elisa May (University of Konstanz, Speaker of German Bioimaging)

Darre

12:00 - 13:15

Meet the Prof I

(Chair: N.N.)

(For students only / registration required)

Once again the junior GBM has organized the established event „Meet the Prof“ with distinguished speakers from science and research.

In an informal atmosphere you will get the chance to ask the questions which keep you up at night - e.g. how do I make a career in science? Did the speaker had fun on his/her scientific path and which experiences were decisive?

Guest:
Werner Kühlbrandt /Frankfurt [DE]

Werner Kühlbrandt studies the structure and function of membrane proteins at the MPI for Biophysics in Frankfurt am Main. He will receive the Feodor Lynen Medal in Mosbach.

Schalander

13:00 - 14:30

Poster Session I

(even numbers, more info on p. 25)

Session 1 (continued)
 Light microscopy (from super-resolution to light sheet microscopy)
 (14:30 - 15:30)

14:30 **Volker Haucke** /Berlin [DE]
Enlightening endocytic membrane dynamics

15:00 **Stefan Hell** /Göttingen [DE]
MINFLUX Nanoscopy: Superresolution post Nobel

15:30 Coffee break

Session 2:
 Correlative microscopy
 (16:00 - 17:00 /Chair: B. Westermann)

16:00 **Thomas Burg** /Göttingen [DE]
Connecting live-cell imaging, cryofluorescence, and electron microscopy through microtechnology

16:30 **Jürgen Plitzko** /Martinsried [DE]
Towards a biopsy at the nanoscale: Novel approaches and recent advances in cryo-electron tomography

17:00 **Bayer Pharmaceuticals PhD Prize**
 (Chair: F. X. Schmid)

Katharina Braunger /Oxford [UK]
Structural basis for coupling protein transport and N-glycosylation at the mammalian endoplasmic reticulum



Katharina Imkeller /Heidelberg [DE]
Molecular characterization of public antibodies in human malaria

17:20 GBM General meeting

19:15 **Feodor Lynen Lecture**
 (Laudatio: S. Raunser)

Werner Kühlbrandt /Frankfurt [DE]
 Mechanistic insights from high-resolution cryo-EM structures of ATP synthases



The German Society for Biochemistry and Molecular Biology honors Werner Kühlbrandt with the distinguished Feodor Lynen medal for his groundbreaking researches on the structure and mechanisms of membrane proteins.

After the prize lecture the GBM invites all participants to join the Lynen reception.

20:15 **Poster Session II**
 (all numbers, more info on p. 25)

22:00 **Party and Dance**
 (organized by the junior GBM)

	<p>Session 2 (continued): Correlative microscopy (09:00 - 10:15)</p>
09:00	<p>Gaia Pigino /Dresden [DE] <i>Understanding cilia assembly and transport with CLEM and cryo-EM</i></p>
09:30	<p>Short Talk: Matteo Allegretti /Heidelberg [DE] <i>The structure of the nuclear pore complex and its degradation in the cellular context</i></p>
09:45	<p>John Briggs /Cambridge [UK] <i>Cryo-electron tomography to determine the structures of viruses and trafficking vesicles in situ</i></p>
10:15	<p>Coffee break</p>
	<p>Session 3: Electron microscopy (single particle EM and electron microscopy) (10:45 - 12:00 /Chair: A. Boland)</p>
10:45	<p>Carolyn Moores /London [UK] <i>Molecular strategies for regulating microtubule dynamics</i></p>

11:15	<p>Short talk: Daniel Roderer /Dortmund [DE] <i>Structures of a Tc holotoxin reveal the mechanism of activation and translocation</i></p>
11:30	<p>Holger Stark /Göttingen [DE] <i>High-resolution structure determination of dynamic macromolecular complexes</i></p>
12:00	<p>Lunch break</p>
12:00	<p>Meet the Prof II / III (Chair: N.N.) (For students only / registration required) Guest I: Irmgard Sinning /Heidelberg [DE] Irmgard Sinning investigates cellular transport mechanisms, membrane protein insertion and ribosomal processes on a structural level at the Biochemistry Centre of the University of Heidelberg. Guest II: Stefan Hell /Göttingen [DE] Stefan Hell's research group at the MPI for Biophysical Chemistry in Göttingen focuses on high-resolution fluorescence microscopy. He was awarded the Nobel Prize in Chemistry in 2014 for his development of the STED technology.</p>
13:00	<p>Poster session III (odd numbers, more info on p. 24)</p>
13:15	<p>Lunch Sessions (p. 16)</p>

13:15 - 14:15

How SynBio techniques will boost imaging science

(Mini Symposium of the GBM study group „Synthetic Biology“)

(Chairs : H. Wagner, V. Morath)

The speakers of the GBM study group “Synthetic Biology” will talk about how synthetic biology influences imaging science and inform about the projects and the work of the study group.

Gil Westmeyer /Munich [DE]
Matias Zurbruggen /Düsseldorf [DE]

Lecture Hall

13:30 - 14:30

Meet the industrial Scientist !

(Registration required)

Markus G. Rudolph, who works in research and development at F. Hoffmann-La Roche (Basel) in the field of structural biology (crystallography, structure-based drug design), is available as an expert for all questions concerning research in industry.

What are the differences between industrial and university research? How do the ways of thinking, approaches and focal points differ? Other topics include publications, patents, job security and career opportunities in a pharmaceutical environment compared to universities.

Darre

Session 3 (continued): Electron microscopy (single particle EM and electron microscopy) (14:30 - 16:00)

14:30

Rouslan Efremov /Brussels [BE]
Structure and gating of Ryanodine receptor in lipid environment

15:00

Sriram Subramaniam /Bethesda [USA]
Cryo-EM and drug discovery

15:30

Bridget Carragher /New York [USA]
Automated Tools For Electron Microscopy

16:00

Coffee break

junior GBM Session (16:30 - 17:30 /Chair: B. Moissl/J. Pletzer-Zelgert)

16:30

Kay Grünwald /Hamburg [DE]
Integrative imaging of membrane modulations in the course of virus-host interactions

17:00

Timm Schroeder /Zürich [CH]
Long-term single-cell quantification: New tools for old questions

17:30

Eduard Buchner Prize:
(Chair: A. Beck-Sickinger)

Irmgard Sinning /Heidelberg [DE]
Structural Basis of co-translational protein folding

	Session 4: Next techniques (X-ray microscopy, photoacoustics, X-FEL) (09:00 - 12:00 / Chair: B. Moissl/J. Pletzer-Zelgert)
09:00	Philipp Selenko /Rehovot [IL] <i>After the revolution (in resolution): Where do we go from here?</i>
09:30	Short talk: Astrid Gesper /Bochum [DE] <i>A proof-of-concept study of combined scanning ion conductance and stimulated emission depletion microscopy</i>
09:45	Ilme Schlichting /Heidelberg [DE] <i>Protein structure and dynamics using X-ray free-electron lasers</i>
10:15	Coffee break
10:45	Vasilis Ntziachristos /München [DE] <i>Advances in optoacoustic imaging for biomedical applications</i>
11:15	Jan-David Nicolas /Göttingen [DE] <i>Biological cells and tissues studied by holographic X-ray microscopy and tomography</i>
12:00	Poster prizes and closing remarks Stefan Raunser/ Stefan Jacobs (Scientific board)

for GBM members only!

April 3 14:00 - 17:00 Schalander
Sitzung: Arbeitskreis Studium
Molekulare Biowissenschaften

April 3 17:00 - 19:00 Malzboden
Sitzung: Sprecher der
GBM-Studiengruppen

April 4 12:30 - 14:00 Malzboden
Sitzung: GBM-Kontaktpersonen

April 4 13:30 - 14:30 Schalander
Sitzung: junior GBM Stadt- und Bundessprecher

April 4 14:45 - 16:30 Schalander
Sitzung: Arbeitskreis „Senior Experts“

April 4 17:20 - 19:15 Lecture hall
GBM-Mitgliederversammlung

April 5 12:00 - 14:30 Malzboden
Sitzung: Arbeitskreis „Biochemie in der Medizin“

April 5 19:00 - 21:00 Lecture hall
Vollversammlung: junior GBM

Venue

Mosbach is located on the railway line (S-Bahn) Mannheim-Heidelberg-Mosbach-Osterburken, 45 kilometres east of Heidelberg.

The nearest airport is Frankfurt/Main. There are convenient train connections from Frankfurt airport station to Mannheim and from there to Mosbach.

By car:

From Frankfurt / Heidelberg: Motorway A6 exit Sinsheim - then B292 to Mosbach

From Stuttgart / Heilbronn:

A6 exit Neckarsulm - B27 to Mosbach

From Würzburg / Nürnberg:

A81 exit Osterburken, B 292 to Mosbach.

The congress center is located above the old city centre. When arriving by car, please follow the yellow signs to parking areas P5 „Alte Mälzerei“ or P6 „Altstadt“.

Address: Alte Mälzerei
 Alte Bergsteige 7
 74821 Mosbach

Posters

The posters should be presented in portrait format (DIN A0 resp. ~120 x 85 cm)

Poster sessions

Thursday, 13:00 - 14:30 - even numbers

Thursday, 20:15 - 21:30 - all numbers

Friday, 13:00 - 14:30 - uneven numbers

During the poster sessions the presenting authors are requested to stay near their posters. Posters should be presented throughout the whole meeting.

Poster numbers

Please see the poster list on page 30 for poster numbers.

Poster prizes

The best three posters will be awarded (with certificate and 300 €).

The winners will be announced at the end of the meeting on Saturday. To receive the prize, personal attendance is required.

Thank you for your kind support!

Please visit the booths of our partners!





1 Oberer Torturm



2 Haus Kickelhain



3 Altes Hospital



3a Scharfrichter-Haus



4 Palm'sches Haus



5 Rathaus



6 Salzhaus



7 Synagogenplatz



8 Altenzentrum Pfalzgrafenstift



9 Mosbacher Schloss



10 Kandel



11 Kiwelschisserbrunnen



12 Stiftskirche



i Conference venue/Alte Mälzerei



ii Welcome reception/city hall



iii Hotel „Zum Amtsstüble“



Allegretti, Matteo (EM 01)

The structure of the nuclear pore complex and its degradation in the cellular context

Antonios, Gregory (LM 01)

Online workflow platform for advanced light microscopy

Bäuerlein, Felix JB (CM 01)

In Situ Architecture and Cellular Interactions of PolyQ Inclusions

Bender, Julian (OT 01)

Structural flexibility of Synaptotagmin-1 probed by mass spectrometry and molecular dynamics

Birus, Robin (OT 02)

Analyzing the Effects of CK2 Inhibitors with an Indeno[1,2-b]indole Scaffold on Different Tumor Cell Lines by Live Cell Imaging and HPLC-MS/MS

Buchholz, Rebecca (OT 03)

Elemental and Molecular Microscopy - Mass Spectrometric Imaging in the Life Sciences

Cosentino, Katia (LM 02)

Insight in the assembly mechanisms of Bax and Bak during apoptosis at the single molecule level

Dasgupta, Anindita (NT 01)

3D superresolution by supercritical-angle localization microscopy(SALM)

Dencher, Norbert A. (LM 03)

Membranes as targets of Alzheimer's disease triggering amyloid beta peptides

Diekmann, Robin (LM 04)

Photon-free characterization of CMOS cameras removes bias from SMLM measurements

Engbrecht, Marina (OT 04)

PARP1 regulates nucleolar-nucleoplasmic shuttling of WRN and XRCC1 upon genotoxic stress in a toxicant- and protein-specific manner

Finke, Stefan (LM 05)

3D-Imaging of Rabies Virus Infection of the Brain

Gesper, Astrid (CM 02)

A proof-of-concept study of combined scanning ion conduction and stimulated emission depletion microscopy

Gordiyenko, Klavdiya (OT 05)

Multiscale Origami Structures as Interfaces for Cells (MO-SAIC) – A versatile platform for the investigation of early cell signalling

Grimm, Elisabeth (OT 14)

Unravelling Mechanisms of Glycolipid-dependent Endocytosis

Groh, Carina (OT 06)

Mitoprotein stress in the cell: the HAP complex as an important regulator

Hedrik, Schöneborn (OT 15)

Novel Tools towards Magnetic Guidance of Neurite Growth in Dopaminergic Cells: Cytoplasmic Capturing and Guidance of Magnetic Nanoparticles Functionalized with Neurite-Promoting RAS Proteins

Hoess, Philipp (LM 06)

A new approach to reconstruct dynamics from static super-resolution images to study clathrin-mediated endocytosis

Holtmannspötter, Michael (LM 07)

Advanced Lattice Light-sheet Microscopy at a Bioimaging Core Facility

Jenner, Andreas (LM 08)

Interplay of Bax and Drp1 during apoptosis: A characterization by advanced microscopy

Klostermeier, Dagmar (LM 09)

Dissecting structure, function and dynamics of molecular machines by single-molecule FRET microscopy: Translation initiation is regulated through modulation of the conformational dynamics of the DEAD-box protein eIF4A

Klotz, Lisa Janina (LM 10)

Expression of metabotropic glutamate receptors and cannabinoid receptors in hair cells of the cochlea

Klupp, Barbara (OT 07)

Vesicle-mediated nucleocytoplasmic transport of herpesvirus capsids

Koch, Julian (OT 08)
 Integrative analysis of the histone-modifying enzyme UTX in urothelial cancer combining fluorescence imaging spectroscopy with molecular biology

Kohl, Tobias (LM 11)
 Quantitative Telomer Nanoscopy in Cardiomyocytes

Konen, Timo (LM 12)
 A new reversibly switchable fluorescent protein for RESOLFT nanoscopy

Krämer, Lena (OT 09)
 Mitochondrial precursor proteins control the mitotic cell cycle

Krupp, Ferdinand (EM 02)
 The Molecular Mechanism of λ N-dependent processive transcription antitermination

Kutsch, Miriam (OT 10)
 Interference with actin-based bacterial dissemination by the human host defense protein hGBP1

Lehners, Moritz (LM 28)
 Watching cGMP signalling live and in colour

Mesaris, Alexandros (OT 11)
 NudC – a new player in WIPI-mediated autophagy

Müller, Günter (NT 02)
 Chip-Based Sensing of the Release of Unprocessed Cell Surface Proteins in Response to Stress

Müller, Lucas-Raphael (LM 13)
 Combining Convolutional Neural Networks and Fitting Algorithms for High Density Single Molecule Localisation Microscopy

Murphy, Bonnie J. (EM 03)
 Rotary substates of ATP synthase by cryo-EM reveal the basis of flexible F_1 - F_0 coupling

Neumann, Sebastian (OT 12)
 Dopaminergic Cells are Protected from Toxic Insults and Show Enhanced Tyrosine Hydroxylase Activity by Cellular Delivery of a Fusion Protein Composed of the Transcription Factor Nurr1

Niewidok, Benedikt (LM 14)
 Single molecule imaging reveals a role of a novel phosphorylation site of the stress granule organizer G3BP1 in liquid phase mobility

Ozdemir, Bugra (OT 13)
 Image-based 3D structural analysis of FtsZ networks in Physcomitrella patens and feature-based network classification via machine learning

Parey, Kristian (EM 04)
 A 192-Heme Electron Transfer Network in the Hydrazine Dehydrogenase Complex

Paweletz, Laura Charlotte (LM 15)
 Single-Vesicle Microscopy of Reconstituted Model Membranes

Pawlowitz, Jan (LM 16)
 Resolving the nanopathology and rescue of Junctionophilin-2 clustering in atrial cardiomyocytes

Pilz, Robert (OT 14)
 Unravelling Mechanisms of Glycolipid-dependent Endocytosis

Port, Sarah A (EM 05)
 Integrative structural analysis of the HOPS complex using X-ray crystallography and single-particle electron microscopy

Quentin, Dennis (EM 06)
 Mechanism of loading and translocation of type VI secretion system effector Tse6

Raudzus, Fabian (OT 15)
 Novel Tools towards Magnetic Guidance of Neurite Growth in Dopaminergic Cells: Cytoplasmic Capturing and Guidance of Magnetic Nanoparticles Functionalized with Neurite-Promoting RAS Proteins

Röder, Christine (EM 07)
 Towards the Amyloid Fibril Structure of PI3K-SH3 by use of Cryo-Electron Microscopy

Roderer, Daniel (EM 08)
 Structures of a Tc holotoxin reveal the mechanism of activation and translocation

Rojas-Sánchez, Leonardo (LM 17)
Fluorescent covalently labelled calcium phosphate nanoparticles by click chemistry for cellular imaging

Saltukoglu, Deniz (LM 18)
The Nanoscale Organization of the B Cell Membrane

Schmidt, Florian (NT 03)
Interrogating the Cell Biology of Infection and Immunity with Camelid Nanobodies

Schneider, Toni (OT 16)
How basic research in rodents contributes to the molecular understanding of complex human diseases. – The Cav2.3 / R-type voltage-gated Ca²⁺ channel.

Schröder, Gunnar (EM 09)
Fibril structure and interface polymorphism of amyloid-β(1-42)

Shalaby, Raed (LM 19)
Studying BOK Protein on The Single-Molecule Level

Siebenaller, Carmen (OT 17)
The distinct properties of thylakoid membranes control IM30-mediated membrane fusion

Sigmund, Felix (EM 10)
Iron-sequestering Encapsulins as multi-plexed gene reporters for Electron Microscopy

Sistemich, Linda (LM 20)
Membrane binding mechanism of the large GTPase hGBP 1

Sporbeck, Katharina (OT 18)
ATG-18 and EPG-6 are required for autophagy and play opposing roles in lifespan control of *Caenorhabditis elegans*

Sprink, Thiemo (EM 11)
Structural analysis of membrane-bound dynamin-like EHD-ATPases by X-ray crystallography and Subtomogram Averaging

Stehle, Daniel (LM 21)
Novel imaging techniques to study the role of cGMP in cancer progression

Stiel, Andre C. (NT 04)
Photo-switching in optoacoustics

Stock, Charlott (EM 12)
Cryo-EM structures of KdpFABC reveal K(+) transport mechanism via two inter-subunit half-channels

Stumpf, Daniel (LM 22)
Near-infrared STED nanoscopy with an engineered bacterial phytochrome

Täuber, Daniela (LM 23)
Imaging nanoscale aggregation of proteins ex vivo using the contrast in Förster resonance energy transfer obtained from 2D polarization fluorescence imaging (2D POLIM)

Täuber, Daniela (NT 05)
Nanoscale chemical imaging of cell surface and core-shell nanoparticles using infrared excitation and detection by force microscopy

Thevathasan, Jervis (LM 24)
Nuclear pores as universal reference standards for quantitative microscopy

Timmler, Sebastian (EM 13)
3D electron microscopy and confocal live imaging reveal the importance of axon-glia adhesion during CNS myelination

Trowitzsch, Simon (EM 14)
How peptide-loading complex affects MHC class I biology

Veit, Sarina (LM 15)
Single-Vesicle Microscopy of Reconstituted Model Membranes

Wecklein, Sabine (OT 19)
Analyzing transmembrane ribitol flux mediated by GlpF or Aqp3 using RDH-loaded proteoliposomes

Weiber, Hans (LM 25)
A monoclonal antibody against bacterially expressed MPV17 sequences does not stain Mitochondria and lacks staining in Human Mpv17 knock out cells; in support of nucleotide bypass therapy for patients with Mpv17 deficiency disease

Werther, Philipp (LM 26)
Bioorthogonal Fluorogenic Probes – Application in Live Cell Imaging and Single Molecule Localization Microscopy

Wieneke, Ralph (LM 27)
Live-cell protein labeling with nanometer precision by cell squeezing

Wolf, Jan Niclas (OT 20)
Multi-scale modeling of cryo-EM protein structures using graph theory

Wolters, Markus (LM 28)
Watching cGMP signalling live and in colour

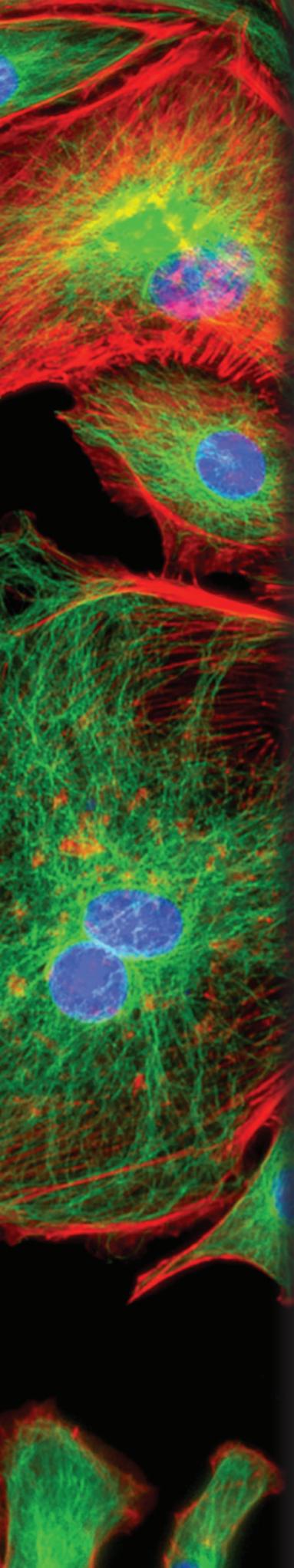
Wurzel, Patrick (OT 21)
Digital Pathology of Hodgkin lymphoma: analysis of CD30-stained whole slide images using graph theory

Zickermann, Volker (OT 22)
Insight into mechanism, assembly and disease from cryo-EM structures of respiratory complex I



Notes





70. Mosbacher Kolloquium

April 4 - 6, 2019
Mosbach (Baden) /Germany

A meeting of the German
Society for Biochemistry
and Molecular Biology



<https://mosbacher-kolloquium.org>