

Imaging Cell Dynamics

Montanyà Hotel, Catalonia, Spain

11 – 14 May 2026

Programme

Monday 11 May

- 12:00** **Registration opens**
- 12:30 – 14:00** **Lunch**
- 14:00 – 14:15** **Welcome**
- Session 1**
Chairs: Guillaume Jacquemet and Oportune Kpotor
- 14:15 – 14:45** **Emmanuel Derivery** MRC Laboratory of Molecular Biology, UK
Illuminating endosomal sorting with multispectral microscopy
- 14:45 – 15:15** **Francesca Bottanelli** Freie Universität Berlin, Germany
Unravelling the inner secrets of cells with gene editing and live-cell super-resolution microscopy
- 15:15 – 15:30** **Oleskiy Kovtun** Max Planck Institute for Multidisciplinary Sciences, Germany
Cryo-ET snapshot of endosomal tubular carriers
- 15:30 – 15:45** **Alex Johnson** University of Exeter, UK
The same, but different: clathrin-mediated endocytosis in non-mammalian and yeast systems
- 15:45 – 16:30** **Afternoon break**
- 16:30 – 17:00** **The EMBO Keynote Lecture: Taija Mäkinen** University of Helsinki, Finland
Cellular dynamics governing lymphatic vessel morphology and functional resilience
- 17:00 – 17:30** **Elif Nur Firat Karalar** Koç University, Türkiye
Centriolar satellites assemble via a hierarchical pathway driven by PCM1 multimerization
- 17:30 – 17:45** **Alan Wainman** University of Oxford, UK
How centrioles disengage and grow: insights from live high-resolution imaging
- 17:45 – 18:00** **Simona Buracco** CEA Grenoble, France
Investigating the impact of cellular size on actin networks and their turnover
- 18:00 – 19:00** **Free time**
- 19:00 – 20:00** **Speed networking and drinks**
- 20:00** **Dinner**

Tuesday 12 May

- 08:30 – 09:00** **Careers at a glance**
Francesca Bottanelli Freie Universität Berlin, Germany
Stephen Royle University of Warwick
- Session 2**
Chairs: Francesca Bottanelli and Vandna Maurya
- 09:00 – 09:30** **Ben Engel** University of Basel, Switzerland
Environmental structural biology: exploring the molecular architecture of bioenergetic organelles
- 09:30 – 09:45** **Pratima Verma** Max Planck Institute of Biophysics, Germany
DRP1 dynamics and nanoscale organization of its macromolecular assemblies during mitochondrial fission
- 09:45 – 10:00** **Till Stephan** Goethe University Frankfurt, Germany
Linking mitochondrial ultrastructure and network dynamics across spatial scales
- 10:00 – 10:15** **Ruth Carmichael** University of Exeter, UK
Untangling the dynamics and functions of peroxisome membrane tubules
- 10:15 – 10:25** **Sponsor talk**
Steven Coleman VisiTech International Ltd.
VT-iSIMx – the next generation of image scanning microscopes
- 10:25 – 11:15** **Morning break and exhibition**
- 11:15 – 11:45** **Ilaria Testa** KTH Royal Institute of Technology, Sweden
Capturing elusive cellular process at high spatial/temporal resolution
- 11:45 – 12:15** **Dong Li** Tsinghua University, China
Multi-dimensional super-resolution live imaging developments and applications
- 12:15 – 12:30** **Hisham Mazal** Max Planck Institute for the Science of Light, Germany
Ångström super-resolution in structural biology: cryogenic light microscopy of membrane proteins in their native environment
- 12:30 – 12:45** **Soumaya Zaghbani** Max Planck Institute for Biophysics, Germany
Deep-SegCLEM: a fiducial-free framework for correlative light–electron microscopy reveals molecular–ultrastructural relationships in mitochondrial remodeling
- 12:45 – 14:00** **Lunch**
- Session 3**
Chairs: Giulia Zanetti and Aakeel Ahmad Wagay
- 14:00 – 14:30** **Sven Klumpe** Austrian Academy of Sciences, Austria
Snapshots of the mobile genome – *in situ* structural biology of transposable elements
- 14:30 – 15:00** **Michael Way** The Francis Crick Institute, UK
In situ cryo-electron tomography of vaccinia virus exit from infected cells

- 15:00 – 15:15** **Esteban Hoijman** Molecular Biology Institute of Barcelona (IBMB-CSIC) and IDIBELL, Spain
Multiscale quantitative live imaging reveals the dynamics of the first interaction of embryos with bacteria
- 15:15 – 15:30** **Berta Cava Cami** Babraham Institute, UK
Live visualization of OCT4 dynamics in preimplantation mouse embryos
- 15:30 – 16:15** **Afternoon break and exhibition**
- 16:15 – 16:45** **Marco Fritzsche** University of Oxford, UK
Lighting up the dark mechanics of tumours
- 16:45 – 17:15** **Guillaume Jacquemet** Åbo Akademi University, Finland
Cell-cell communications using filopodia
- 17:15 – 17:25** **Sponsor talk**
Claudia Zagami ONI
The new era of single-molecule imaging
- 17:25 – 18:00** **Poster flash talks**
- 18:00 – 19:45** **Poster session and exhibition**
- 19:45** **Dinner**

Wednesday 13 May

Session 4

Chairs: Michael Way and Noemi Iwicki

- 08:30 – 09:00** **Jonas Ries** Max Perutz Labs Vienna, Austria
MINFLUX for dynamic structural cell biology
- 09:00 – 09:30** **Virginie Hamel** University of Geneva, Switzerland
Ultrastructure expansion microscopy: a new window into cell architecture
- 09:30 – 09:45** **Roger Pons Lanau** The Institute of Photonic Sciences (ICFO), Spain
Single-molecule spatiotemporal dynamics of protein export from the endoplasmic reticulum
- 09:45 – 09:55** **Sponsor talk**
Hervé Gautier Abbelight
Abbelight TIRF technology: opening new pathways to accelerate your discoveries
- 09:55 – 10:45** **Morning break and exhibition**
- 10:45 – 11:15** **Lea Dietrich** Max Planck Institute for Brain Research, Germany
Charting the complex architecture of mitochondria in neurons
- 11:15 – 11:45** **Sarah Cohen** The University of North Carolina-Chapel Hill, USA
Visualizing organelle communication networks in differentiation and neurodegeneration
- 11:45 – 12:00** **Vanessa Coelho-Santos** University of Coimbra, Portugal
A window with a view to neuroglial unit development
- 12:00 – 12:15** **Junior West** University of Michigan, USA
Selective junctional reorganization for epithelial remodeling

- 12:15 – 13:30** **Lunch**
- 13:30 – 15:00** **Free time**
- 15:00 – 16:00** **Discussion session:** Trends and challenges in publishing
- 16:00 – 16:30** **Afternoon refreshments and exhibition**
- Session 5**
Chairs: Alexander Ludwig and Anne Ryndyk
- 16:30 – 17:00** **Katja Röper** MRC Laboratory of Molecular Biology, UK
 Mechanisms and mechanics of tube morphogenesis
- 17:00 – 17:15** **Kate White** Allen Institute for Cell Science, USA
 Mapping cellular behavior in 3D to uncover principles that govern multicellular morphogenesis
- 17:15 – 17:45** **Gerry Hammond** University of Pittsburgh, USA
 Visualizing phospholipid signaling dynamics in the living cell membrane
- 17:45 – 17:55** **Sponsor talk**
Xintong Men Beijing NanoInsights-tech Co., Ltd.
 Super-resolution imaging solutions—advancing visualization in biological research
- 17:55 – 18:30** **Poster flash talks**
- 18:30 – 20:15** **Poster session and exhibition**
- 20:15** **Dinner**

Thursday 14 May

Session 6

Chairs: Claire Brown and Parvindokht Bararpour

- 09:00 – 09:30** **Christophe Leterrier** CNRS-Aix Marseille University, France
 The axonal cytoskeleton down to the nanoscale
- 09:30 – 09:45** **Maria Florencia Sanchez** University of Münster, Germany
 Uncovering plexin control of cancer migration and invasion
- 09:45 – 10:00** **Pablo Sáez** University Medical Center Hamburg-Eppendorf, Germany
 Decision-making during cell migration
- 10:00 – 10:15** **Samantha Hack** St. Jude Children's Research Hospital, USA
 Cytosome-resident junctional proteins facilitate extracellular navigation for targeted signal delivery
- 10:15 – 11:00** **Morning break**
- 11:00 – 11:15** **Jana Kroll** Max Delbrück Center for Molecular Medicine Berlin, Germany
 Dynamic nanoscale architecture of synaptic vesicle fusion in mouse hippocampal neurons
- 11:15 – 11:30** **Sasha Meek** Universitat Pompeu Fabra, Spain
 Continuum architecture dynamics of vesicle tethering in exocytosis

- 11:30 – 12:00** **Giulia Zanetti** The Francis Crick Institute, UK
Mechanisms of transport in the early secretory pathway studied by cryo-electron tomography
- 12:00 – 12:30** **Ori Avinoam** Weizmann Institute of Science, Israel
Seeing the unseen: multimodal imaging reveals the unique exocytosis mechanism of large secretory vesicles
- 12:30** **Closing remarks**
- 12:45** **Lunch and depart**