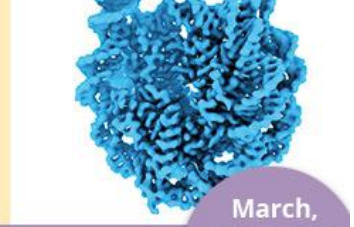
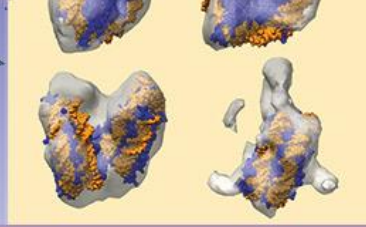
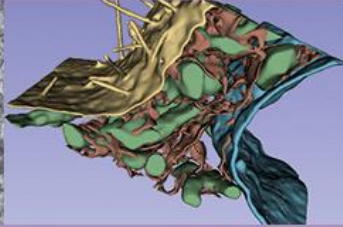
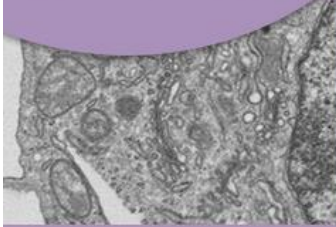


Symposium on recent developments in cellular electron microscopy

Monday, March 21st 2022

- ▶ **9.00 am – 9.10 am** **Opening word**
- ▶ **9.10 am – 12.30 pm** **Session 1: Volumetric Imaging.**
- ▶ **9.10 am – 9.50 am** Volume-SEM imaging as a link between light microscopy and high - resolution TEM - **Christel GENOUD** - Faculty of Biology and Medicine, University of Lausanne, Switzerland
- ▶ **9.55 am – 10.35 am** Volume CLEM: Bigger, better, faster, more... - **Lucy COLLINSON** - Francis Crick Institute, UK
- ▶ **10.40 am – 10.55 am** **Coffee break**
- ▶ **10.55 am – 11.05 am** Resol-ving tumor metastasis with cellular electron microscopy - **Jacky GOETZ** - Biomedicine Research Center of Strasbourg, France
- ▶ **11.20 am – 11.40 pm** Breaking the ice with new samples - Cryo FIB-SEM volume imaging – **Anne STEYER** – European Molecular Biology Laboratory, Germany
- ▶ **11.45 pm – 12.30 pm** Keynote speaker: Enhanced FIB-SEM: a discovery platform for vEM - **Shan C. XU** - Janelia Research Campus, Howard Hughes Medical Institute - USA
- ▶ **12.30 pm – 2.00 pm** **Lunch Break**
- ▶ **2.00 pm – 5.55 pm** **Session 2: Cryogenic electron tomography.**
- ▶ **2.00 pm – 2.45 pm** Keynote speaker: Structural Biology in situ: The Prospects and the Challenges of Cryo-electron tomography - **Wolfgang BAUMEISTER** - Max Planck Institute of Biochemistry, Germany
- ▶ **2.50 pm – 3.30 pm** Unravelling the structure of toxic protein aggregates in situ - **Ruben FERNANDEZ-BUSNADIEGO** - University Medical Center Göttingen, Germany
- ▶ **3.35 pm – 4.15 pm** Cellular structural biology of actin filament nucleation by the Arp2/3 complex - **Florian SCHUR** - Institute for Science and Technology, Austria
- ▶ **4.20 pm – 4.35 pm** **Coffee break**
- ▶ **4.35 pm – 5.05 pm** Structural instability of the microtubule lattice – **Denis CHRETIEN** – University of Rennes, France
- ▶ **5.10 pm – 5.30 pm** Deep learning sheds light on chromatin folding in situ - **Mikhail ELTSOV** - Institute of Genetics and Molecular and Cellular Biology, France
- ▶ **5.35 pm – 6.35 pm** Round table : Meet the challenge of structural cell biology?



Symposium on recent developments in cellular electron microscopy

Tuesday, March 22nd 2022

- ▶ **9.10 am – 12.30 pm** **Session 3: Correlative Light and electron microscopy.**
- ▶ **9.10 am – 9.55 am** Keynote speaker: Advanced methods in cryogenic CLEM: from super-resolution to fluorescent biosensors - **Peter DAHLBERG** - Department of Chemistry, Stanford University, USA
- ▶ **10.00 am – 10.40 am** Integrative structural cell biology of viruses and Plasmodium parasites - **Kay GRÜNEWALD** – Centre for Structural Systems Biology, Leibniz Institute for Experimental Virology (HPI) and University Hamburg, Germany
- ▶ **10.45 am – 11.00 am** **Coffee break**
- ▶ **11.00 am – 11.40 am** Multi-scale imaging by cryoET: from cellular volume to near-atomic resolution - **Peijun ZHANG** - Division of Structural Biology, Nuffield Department of Clinical Medicine, University of Oxford, UK
- ▶ **11.45 am – 12.05 pm** Image processing and analysis in Correlative Light and Electron Microscopy: methods and pitfalls – **Perrine PAUL-GUILLAUTEAU** – University of Nantes, France
- ▶ **12.10 pm – 12.30 pm** Gold nanoparticles for in situ labelling of proteins in cryo-electron tomograms - **Victor HANSS**, Institute of Genetics and Molecular and Cellular Biology, France
- ▶ **12.30 pm – 2.00 pm** **Lunch Break**
- ▶ **2.00 pm – 5.55 pm** **Session 4: Technology and methods developments.**
- ▶ **2.00 pm – 2.45 pm** Keynote speaker: Studying virus proteins “in situ” using cryo electron tomography - **John BRIGGS** - MRC Laboratory of Molecular Biology, UK
- ▶ **2.50 pm – 3.30 pm** SPOTs - using DNA origami as molecular signposts for electron cryotomography – **Lindsay BAKER** - Wellcome Centre for Human Genetics, University of Oxford, UK
- ▶ **3.35 pm – 4.15 pm** Methods for cryo subtomogram analysis of continuous conformational heterogeneity of macromolecules - **Slavica JONIC** - Institute of Mineralogy, Physics of Materials and Cosmochemistry, France
- ▶ **4.20 pm – 4.35 pm** **Coffee break**
- ▶ **4.40 pm – 5.05 pm** Challenges and Opportunities in CryoEM, CryoET, and Cryo-FIB/SEM – **Alex NOBLE** - New York Structural Biology Center, USA
- ▶ **5.10 pm – 5.30 pm** Method to standardize cell shape and size – **Laurent BLANCHOIN** - Cytomorpholab, France