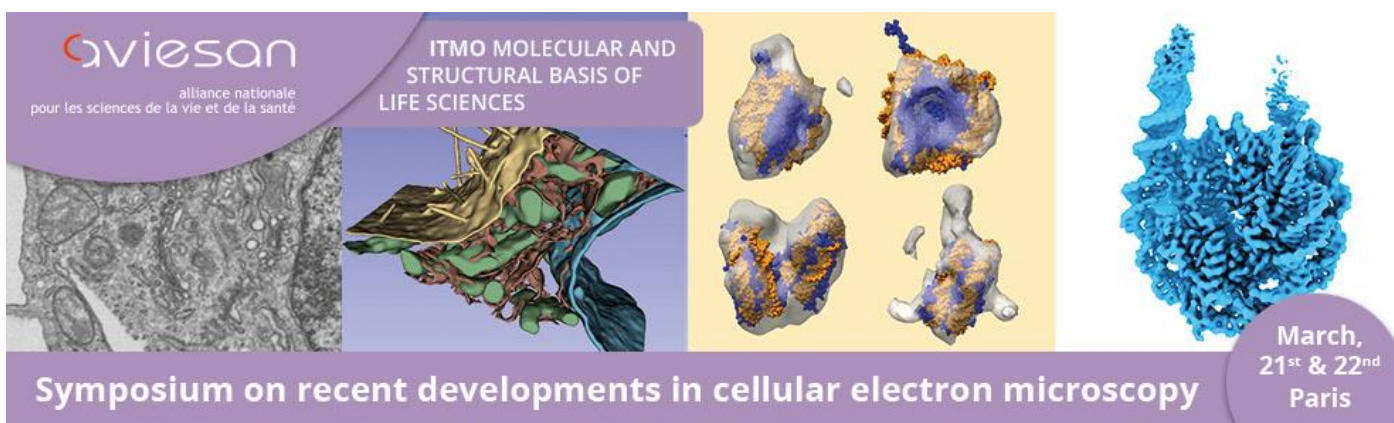


Monday, March 21st 2022

- ▶ 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?



Tuesday, March 22nd 2022

- 9.10 am – 12.30 pm

9.10 am – 9.55 am

10.00 am – 10.40 am

10.45 am – 11.00 am

11.00 am – 11.40 am

11.45 am – 12.05 pm

12.10 pm – 12.30 pm

12.30 pm – 2.00 pm

2.00 pm – 5.55 pm

2.00 pm – 2.45 pm

2.50 pm – 3.30 pm

3.35 pm – 4.15 pm

4.20 pm – 4.35 pm

4.40 pm – 5.05 pm

5.10 pm – 5.30 pm

Session 3: Correlative Light and electron microscopy.

Keynote speaker: Advanced methods in cryogenic CLEM: from super-resolution to fluorescent biosensors - **Peter DAHLBERG** - Department of Chemistry, Stanford University, USA

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

Coffee break

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

Image processing and analysis in Correlative Light and Electron Microscopy: methods and pitfalls – **Perrine PAUL-GILLOTEAUX** – University of Nantes, France

Gold nanoparticles for in situ labelling of proteins in cryo-electron tomograms - **Victor HANSS**, Institute of Genetics and Molecular and Cellular Biology, France

Lunch Break

Session 4: Technology and methods developments.

Keynote speaker: Studying virus proteins “in situ” using cryo electron tomography - **John BRIGGS** - MRC Laboratory of Molecular Biology, UK

SPOTs - using DNA origami as molecular signposts for electron cryotomography – **Lindsay BAKER** - Wellcome Centre for Human Genetics, University of Oxford, UK

Methods for cryo subtomogram analysis of continuous conformational heterogeneity of macromolecules - **Slavica JONIC** - Institute of Mineralogy, Physics of Materials and Cosmochemistry, France

Coffee break

Challenges and Opportunities in CryoEM, CryoET, and Cryo-FIB/SEM – **Alex NOBLE** - New York Structural Biology Center, USA

Method to standardize cell shape and size – **Laurent BLANCHON** - Cytomorpholab, France