



3D Electron Microscopy

Date Friday November 19, 2021, 9:30 – 17:00
Location University of Bern, UniS, lecture hall S003, Schanzeneckstrasse 1, 3012 Bern
Scientific committee Prof. Wanda Kukulski, Prof. Michael Stoffel, Dr. Dimitri Vanhecke, Prof. Benoît Zuber
Approved for 0.5-day credit for continued education in animal experimentation in the Canton of Bern

09:30 Registration, Covid-certificate control, and Coffee

10:00 Welcome by Vice-rector or Dean of University of Bern (*will be added soon*), with guest Prof. Gregor Rainer, Dean of the Faculty of Science and Medicine, of University of Fribourg.

10:15 Electron microscopy at the University of Bern, presented by Prof. Benoît Zuber.

Session 1, Chair: Prof. Wanda Kukulski and Dr. Dimitri Vanhecke
Insights into virology by electron cryo-tomography

10:30 Prof. Montse Barcena
Leiden University Medical Center Viral replication organelles revisited by cellular cryo-tomography

11:05 Dr. Petr Chlanda
Uni Heidelberg In cellulo cryo-CLEM provides structural snapshots of influenza A virus membrane fusion events

11:40 **Farewell** of Prof. Nadia Mercader, former scientific director of the CEM PhD program.
Certificate award to the 2021 graduates of the CEM PhD program.

12:00 Lunch at Welle 7, Restaurant the flow

Session 2. Chair: Prof. Benoît Zuber and Prof. Michael Stoffel
Pushing the limits of structural biology

13:15 Philippe Léonnard
Cytiva Micro purification for cryoEM applications

13:30 Dr. Sasha De Carlo
SPT Labtech Optimisation of cryoEM sample preparation with the Chameleon

14:05 Dr. Julia Kowal
ETH Zurich cryoEM studies of oligosaccharyl transferase

14:40 **Farewell** of Prof. Michael Stoffel, Laudatio by Prof. Britta Engelhardt, Chair of the MIC board.

14:55 Coffee and industry exhibition

15:20 Electron microscopy at the University of Fribourg, presented by Dr. Dimitri Vanhecke.

Session 3. Chair: Dr. Dimitri Vanhecke and Prof. Michael Stoffel
A glimpse on 3D electron microscopy at University of Bern

15:30 Prof. Benoît Zuber
Institute of Anatomy, UniBE Intra- and Intercellular Alignment of Respiratory Cilia - A Serial Block Face SEM Study

16:05 Prof. Wanda Kukulski
Institute of Biochemistry and Molecular Medicine, UniBE Visualising the architecture of organelle contact sites by correlative microscopy

16:40 Conclusions and farewell by scientific committee

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Registration



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