



## 3D Electron Microscopy

<b>Date</b>	Friday November 19, 2021, 9:15 – 17:00
<b>Location</b>	University of Bern, UniS, lecture hall S003, Schanzeneckstrasse 1, 3012 Bern
<b>Scientific committee</b>	Prof. Wanda Kukulski, Prof. Michael Stoffel, Dr. Dimitri Vanhecke, Prof. Benoît Zuber
<b>Approved for</b>	0.5-day credit for continued education in animal experimentation in the Canton of Bern

09:15	Registration, Covid-certificate control, and Coffee	
10:00	Welcome by Prof. Zoltan Balogh, Dean of the Faculty of Science, University of Bern, <i>with guest</i> Prof. Gregor Rainer, Dean of the Faculty of Science and Medicine, 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 <b>Insights into virology by electron cryo-tomography</b>	
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	<b>Farewell</b> of Prof. Nadia Mercader, former scientific director of the CEM PhD program. <b>Certificate award</b> 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 <b>Pushing the limits of structural biology</b>	
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	<b>Farewell</b> 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 <b>A glimpse on 3D electron microscopy at University of Bern</b>	
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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