

Workshop

Title:	IMOD software for electron tomography
Date, duration:	On demand, 1 day
Location:	Institute of Anatomy old building, Bühlstrasse 26
Lecturer(s):	Prof. Dr. phil. nat. Benoît Zuber (ANA)
Number of participants:	2 – 4 students
Target audience:	Master and PhD students of the University of Bern. Lecture Series on Advanced Microscopy plus exam (KSL 9256)
Registration:	Send request to Benoît Zuber (zuber@ana.unibe.ch) cc: CEM Administration (cem.mic@unibe.ch)
KSL:	470970
Reward:	0.5 ECTS
Costs:	0 CHF - PhD students enrolled in the Graduate School for Cellular and Biomedical Sciences (GCB) can apply for refund at the PhD program Cutting Edge Microscopy - Amount accounts for students of the University of Bern. Other participants, please request quote.
Learning goals:	Get familiar with the procedure of electron tomogram reconstruction
Description:	IMOD is a set of image processing, modeling and display programs used for tomographic reconstruction and for 3D reconstruction of EM serial sections and optical sections. The students will install the free package IMOD on their own laptop. They will receive a transmission electron microscopy tilt series dataset. They will learn how to reconstruct a tomogram from the tilt series. They will then learn how to segment the data and render the segmented model in three dimensions.



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Assessment: To be determined