Carl Zeiss Research Microscopy

Thursday, March 23, 2023 14:00 - 15:00, Lecture Hall 105

Introducing high-throughput serial section acquisition for ZEISS MultiSEM

Anna Lena Eberle - Product Management Carl Zeiss Research Microscopy GmbH

Over the past several years, scanning electron microscopy has become a standard method for 3D tissue volumeimaging experiments. However, all scanning technologies are inherently slow, so for large-scale experiments a faster acquisition workflow is needed. The multibeam SEM from ZEISS utilizes up to 91 electron beams in parallel to scan the sample. Of the various approaches existing for the acquisition of 3D tissue data, a workflow in which ultra-thin serial sections are obtained and then imaged sequentially is the most established one for the multibeam SEM. Here, we want to give an overview of the high-throughput serial section acquisition workflow with the ZEISS MultiSEM.

Visit us at ZEISS booth on the ground floor!

Our product and application specialists will introduce to you our new Artificial Intelligence (AI) powered Axiovert 5 digital as well as our latest software solutions for 3D imaging. In addition, do not hesitate to ask your questions about 3D tissue volume imaging.

Looking forward to meeting you at the conference!

Ultrastructural details in large volumes.

The world's fastest scanning electron microscope.



Seeing beyond