



Symposium of the Microscopy Imaging Center

New Trends in Microscopy



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UNIVERSITÄT
BERN

Date Friday November 17, 2023, 9:30 – 17:30
Location University of Bern, UniS, lecture hall S003, Schanzeneckstrasse 1, 3012 Bern
Scientific committee **Kerry Woods, Deborah Stroka, Thomas Nevian**
Organized by Microscopy Imaging Center (MIC) of the University of Bern, www.mic.unibe.ch
Approved for 1-day credit for continued education in animal experimentation in the Canton of Bern

09:30 Registration and welcome coffee

10:15 Welcome address by **Aurel Perren**, Deputy Dean of the Medical Faculty, and the **MIC board**.
Introduction into the topic “New Trends in Microscopy” by the **Scientific Committee**.

Session 1, Chair: **Kerry Woods**

Mesoscale Imaging: Seeing single cells in a global context

10:30 **Gail McConnell**,
University of Strathclyde, UK

Optical imaging with the mesolens

11:10 **Thomas Nevian**,
University of Bern, CH

Imaging single cell activity in behaving mice

11:50 **Abberior Instruments GmbH**,
Martin Korn

Adaptive Optics for STED Imaging – fitting the beam to your sample

12:00 Certificate award to the graduates of the CEM PhD program.

12:10 Lunch and industry exhibition

Session 2, Chair: **Deborah Stroka**

Spatial Omics: Combining imaging with -omics analysis

13:15 **Hannah Williams**,
University of Bern, CH

Spatial omics consortium (SPOC) in Bern

13:30 **Mojgan Masoodi**,
University Hospital Bern, CH

Spatial metabolic imaging reveals zone-specific lipid metabolism in metabolic dysfunction-associated steatohepatitis

14:10 **Daniel Schulz**,
University of Zurich, CH

Towards a deep imaging- and omics-based tumor micro-environment characterization within the IMMUCan consortium

14:50 **Nikon Europe B.V.**,
Alexander Ernst

Make your imaging smarter!

15:00 Coffee and industry exhibition

Session 3, Chair: **Thomas Nevian**

Super resolution and expansion microscopy

15:30 **Chip Nano Imaging AS**,
Merete Storflor

Ultra-large Field of View Super-Resolution Microscopy Using Photonic Chips

15:40 **Paul Guichard**,
University of Geneva, CH

Revealing the molecular architecture of the cell using ultrastructure expansion microscopy (U-ExM)

16:20 **Stefan W. Hell**,
Max-Planck-Institute Göttingen, D

Molecule scale resolution and dynamics in fluorescence microscopy

17:00 Conclusions and farewell by scientific committee

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Registration



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