



# 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](http://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 **Joel Zindel**,  
University of Bern, CH      Spatial Transcriptomics identifies Osteopontin as a potential Chemotaxin for Mesenchymal Cells

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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