



# Research Day

of the

# Microscopy Imaging Center

Wednesday, June 26, 2024, from 09:30 to 16.00

University of Bern, DCBP U113, Freiestrasse 3, 3012 Bern

u<sup>b</sup>

UNIVERSITÄT  
BERN

## 09:30 Registration and Coffee

|       |  |   |
|-------|--|---|
| 10:00 | Welcome<br>MIC board and special guests of honor                             | <b>The MIC - from the beginnings to the latest highlights and our vision for an image analysis platform</b> |
| 10:30 | <b>Session 01, introduction</b>  | <b>The power of light microscopy in very different applications.</b>  |
| 10:35 | <b>Li Xin</b><br><i>Theodor Kocher Institute</i>                             | Using Near-Infrared imaging to assess the cerebrospinal fluidflow in EAE animal model                       |
| 10:55 | <b>Isabel Schultz-Pernice</b><br><i>Institute of Virology and Immunology</i> | Elucidating mpox virus neurovirulence mechanisms with advanced imaging techniques and 3D organoids          |
| 11:15 | <b>Saiko Yoshida</b><br><i>Institute of Plant Sciences</i>                   | Quantitative image analysis of plants from cells to organs  |
| 11:35 | <b>Nicholas James Desnoyer</b><br><i>University of Zurich</i>                | Capturing Plant Development at Scales   |

## 12:00 Lunch & Meet the experts of the MIC

|       |  |   |
|-------|--|---|
| 13:00 | <b>Session 02, introduction</b>                            | <b>Structural analysis with computer tomography and electron microscopy</b>                                 |
| 13:05 | <b>Oleksiy-Zakhar Khoma</b><br><i>Institute of Anatomy</i> | Micro(angio)CT in preclinical dental research   |
| 13:25 | <b>Alicia Borgeaud</b><br><i>IBMM</i>                      | The behaviour of Apaf1 in apoptotic cells unveil apoptosome organization and dynamics in vivo.              |
| 13:45 | <b>Divyansh Gautam</b><br><i>DCBP</i>                      | Structural and Compositional Insights on Alloy Nanoparticles used in Electrocatalysis by ElectronMicroscopy |
| 14:05 | <b>Dimitri Vanhecke, UniFR</b>                             | <b>MIC Symposium 2024 «BioInspired Materials», 15 Nov 2024</b>  |

## 14:15 Coffee and Networking

|       |  |   |
|-------|--|---|
| 14:45 | <b>Arne Seitz, EPFL &amp; LS<sup>2</sup></b><br><b>Adela Calvente Arroyo, LS<sup>2</sup></b> | <b>LS<sup>2</sup> Intersection Microscopy</b>   |
| 14:55 | <b>Session 03, introduction</b>  | <b>Live cell imaging and advanced image analysis</b>                                      |
| 15:00 | <b>Matias Preza</b><br><i>Institute of Parasitology</i>                                      | Parasites in focus, understanding tapeworm biology and how to make their life complicated |
| 15:20 | <b>Reto Lang</b><br><i>Institute of Virology and Immunology</i>                              | Investigating the role of (stress) granules during virus infections                       |
| 15:40 | <b>Benjamin Towbin</b><br><i>Institute of Cell Biology</i>                                   | Growth control from cells to organisms: live imaging across scales                        |

## 16:00 Farewell

The MIC Research Day 2024 is accredited for (xyz days) of continued education in animal experimentation in the Canton of Bern

Supported by



PhD  
specialization  
program  
Cutting Edge  
Microscopy

Registration



Organized by:

**Microscopy Imaging Center (MIC)**  
A Core Facility of the University of Bern with active participation of  
the Faculty of Medicine,  
the Faculty of Science and  
the Vetsuisse Faculty.

