

## 4D Heart-liveHeart Joint Meeting

28.11.2019-29.11.2019

University of Bern

**28.11.2019**

***Institute of Anatomy, Bühlstrasse 26, Seminarroom A263***

10:00 Alexander Ernst, Mercader group, University of Bern

10:30 Olivia Mariani, Liebling group, Idiap, Martigny

11:00 Elena Remacha, Vermot-Fahrbach groups, IGBMC, Strasbourg

11:30 Laia Ortiz, Vermot-Fahrbach groups, Leica, Mannheim

**12:00 Sandwich lunch**

***Institute of Anatomy, Bühlstrasse 26, Ewald R. Weibel Auditorium (A224)***

12:30 Daniel Panakova, Max Delbrück Center, Berlin  
Wnt11 signaling in cardiac biology

***Institute of Anatomy, Bühlstrasse 26, Seminarroom A263***

14:00 Eleonora Lupi, Mercader-Gehrig groups, Acquifer, Heidelberg

14:30 Paul Stroe, Supatto-Majer groups, Bitplane, Zurich

15:00 Morena Raiola, Torres-Majer groups, Bitplane, Zurich

**15:30 Coffee break**

16:00 Robert Prevedel, EMBL, Heidelberg  
Visualizing dynamic biological processes using light-field microscopy

**19:00 Dinner, place TBA**



**29.11. 2019**

**MIC SYMPOSIUM 2019**

- 09:30 Welcome coffee and registration
- 10:30 Welcome: Hans-Uwe Simon, Dean of the Medical Faculty David Spreng, Dean of the Vetsuisse Faculty Britta Engelhardt, President of the MIC Session
- 10:35 Machine learning at the University of Bern An overview presented by the scientific committee
- 10:45 Jean-Philippe Thiran EPFL, Lausanne, CH Keynote Inverse problems in ultrasound imaging: Efficient modeling, sparse regularization and neural networks 11:30 Anna Kreshuk EMBL, Heidelberg, DE Image segmentation at scale
- 12:00 Michael Schell Cenibra GmbH, DE Teacher or student? How to teach AI to pick correct confocal microscopy images

**12:15 Lunch and industry exhibition**

- 13:45 Inti Zlobec University of Bern, CH Digital pathology in translational research
- 14:15 Andrew Janowczyk Lausanne Univ. Hospital, CH Computational pathology: Towards precision medicine
- 14:45 David Pointu GE Healthcare AG, CH Advantages of IN Carta Phenoglyphs™ HCA machine learning module

**15:00 Coffee and industry exhibition**

- 15:30 Gergely Kovach Sysmex Suisse AG, CH High resolution whole tissue imaging for 3D analysis
- 15:45 Ender Konukoglu ETH Zürich, CH On Bayesian models with networks for reconstruction and detection
- 16:15 Christine Decaestecker University of Brussels, BE Segmentation of histopathological images: How to reduce the supervision needs for deep learning

**16:45 Conclusions and farewell**