



# Symposium of the Microscopy Imaging Center

## Machine learning in imaging



UNIVERSITÄT  
BERN

**Date** Friday November 29, 2019, 9:30 – 17:00  
**Location** University of Bern, UniS, lecture hall A003, Schanzeneckstrasse 1, 3012 Bern  
**Scientific committee** Inti Zlobec, Guillaume Witz, Raphael Sznitman, Mauricio Reyes  
*Approved for 0.5 day credit for continued animal experimentation in the Canton of Bern*

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 1. Chairs: Inti Zlobec, Raphael Sznitman*

10:35 Machine learning at the University of Bern  
 An overview presented by the scientific committee

10:45 **Jean-Philippe Thiran** Inverse problems in ultrasound imaging: Efficient modeling, sparse regularization and neural networks  
*EPFL, Lausanne, CH*  
 Keynote

11:30 **Anna Kreshuk** Image segmentation at scale  
*EMBL, Heidelberg, DE*

12:00 **Michael Schell** Teacher or student? How to teach AI to pick correct confocal microscopy images  
*Cenibra GmbH, DE*

12:15 Lunch and industry exhibition  
*Session 2. Chairs: Guillaume Witz, Mauricio Reyes*

13:45 **Inti Zlobec** Digital pathology in translational research  
*University of Bern, CH*

14:15 **Andrew Janowczyk** Computational pathology: Towards precision medicine  
*Lausanne Univ. Hospital, CH*

14:45 **Gergely Kovach** High resolution whole tissue imaging for 3D analysis  
*Sysmex Suisse AG, CH*

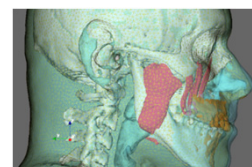
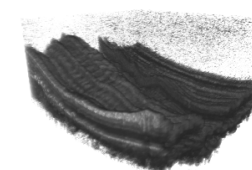
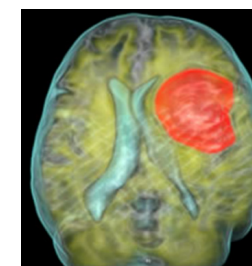
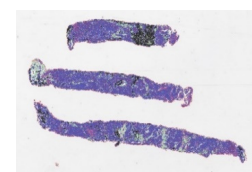
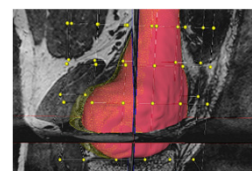
15:00 Coffee and industry exhibition  
*Session 3. Chairs: Mauricio Reyes, Raphael Sznitman*

15:30 **David Pointu** Advantages of IN Carta Phenoglyphs™ HCA machine learning module  
*GE Healthcare AG, CH*

15:45 **Ender Konukoglu** On Bayesian models with networks for reconstruction and detection  
*ETH Zürich, CH*

16:15 **Christine Decaestecker** Segmentation of histopathological images: How to reduce the supervision needs for deep learning  
*University of Brussel, BE*

16:45 Conclusions and farewell



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Registration

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[http://www.mic.unibe.ch/symposium\\_registration.php](http://www.mic.unibe.ch/symposium_registration.php)



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Faculty of Science  
Vetsuisse Faculty

