

### The yearly meeting of the Biomedical Photonics Network 2019

# **Progress in Biomedical Photonics**

at the University Bern, Kuppelsaal, Hochschulstrasse 4 December 10, 2019 from 9:45 to 16:15

## **Program**

09:45-10:15	Registration, posters, coffee and croissants
10:15-10:30	Welcome and introduction of the BMPN Martin Wolf, President BMPN
10:30-10:45	Multiple-scattering optical diffraction tomography for label-free imaging of complex 3D tissues and organoids <u>Elizabeth Antoine</u> , J. Lim, A. Emam, A. Saba, D. Psaltis  EPFL, Lausanne
10:45-11:00	Multimodal imaging combining continuous-wave fluorescence molecular tomography and time-domain near-infrared optical tomography. <u>Wuwei Ren</u> , J. Jiang, A. Di Costanzo, E. Charbon, A. Kalyanov, M. Wolf. University of Zurich
11:00-11:15	Self-calibrated time resolved near infrared optical tomography <u>Jingjing Jiang</u> , A. di Costanzo, A. Kalyanov, S. Lindner, E. Charbon, M. Wolf. University of Zurich
11:15-11:30	Effects of long-term blue light exposure on frontal and occipital cerebral hemodynamics <u>Hamoon Zohdi</u> , F. Scholkmann, U. Wolf.  University of Bern
11:30-11:45	Machine learning approaches for improved continuous, non-occlusive arterial pressure monitoring using photoplethysmography. <u>J. Jorge, C. Aguet, J. Van Zaen, M. Proença, G. Bonnier, P. Renevey, M. Lemay.</u> CSEM Neuchâtel, EPFL Lausanne
11:45-12:00	Learning the language of cells in real-time with a label-free nanoplasmonic biosensor. <u>Xiaokang Li</u> , H. Altug.  EPFL Lausanne
12:00-12:15	Optical Feedback Mechanism for Minimally Invasive Laserosteotome <u>Hamed Abbasi</u> , A. Zam. University of Basel
12:15-14:15	Lunch and poster viewing



14:15-14:50 Bone Cutting 4.0: Minimally Invasive Smart Laser Osteotomy

Azhar Zam

University of Basel

14:50-15:25 Volumetric bioprinting by tomographic back-projection

Christophe Moser

**EPFL** 

15:25-16:00 Quantitative handheld optoacoustic imaging: a novel multimodal

diagnostic device?

Martin Frenz

University of Bern

16:00-16:15 Award ceremony and closing

### We gratefully acknowledge financial support:







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# EXCITE 3 5 >

### **ZURICH IMAGING**

### Registration is mandatory

Please register through <a href="mailto:bmpn2019.weebly.com">bmpn2019.weebly.com</a> at the latest by November 25, 2019; for further information: <a href="www.bmpn.ch">www.bmpn.ch</a>. The meeting is free of charge for members of BMPN, SSOM and EXCITE members. Registration fee at the meeting CHF 50.- or apply for SSOM (<a href="www.ssom.ch">www.ssom.ch</a>) membership (CHF 30.-).

### **Contacts**

For scientific & technical questions: Prof. Martin Wolf (Martin.Wolf@usz.ch)

For questions on organization & catering: Farida Schmied (farida.schmied@ikim.unibe.ch)

#### Venue

The meeting takes place at the University of Bern, Kuppelsaal, Hochschulstrasse 4, Bern, which is ~5 min. walking distance from Bern main station (an elevator connects the main station with the place in front of the building)

