

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
Elizabeth Antoine, 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.
Wuwei Ren, 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
Jingjing Jiang, 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
Hamoon Zohdi, F. Scholkmann, U. Wolf.
University of Bern
- 11:30-11:45 Machine learning approaches for improved continuous, non-occlusive arterial pressure monitoring using photoplethysmography.
J. Jorge, C. Aguet, J. Van Zaen, M. Proença, G. Bonnier, P. Renevey, M. Lemay.
CSEM Neuchâtel, EPFL Lausanne
- 11:45-12:00 Learning the language of cells in real-time with a label-free nanoplasmonic biosensor.
Xiaokang Li, H. Altug.
EPFL Lausanne
- 12:00-12:15 Optical Feedback Mechanism for Minimally Invasive Laserosteotome
Hamed Abbasi, 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:



Registration is mandatory

Please register through bmpn2019.weebly.com at the latest by November 25, 2019; for further information: www.bmpn.ch. 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 (www.ssom.ch) 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)

