

The yearly meeting of the Biomedical Photonics Network 2016

Progress in Biomedical Photonics

at the University Hospital Zurich Lecture Hall PATH D 22, Schmelzbergstrasse 12
November 28, 2016 from 9:45 to 16:30

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 Towards tissue diagnosis with a polarimetric microscope
Manes Hornung, M Frenz, HG Akarçay. University of Bern
- 10:45-11:00 Two-photon Microscopy of Near Ideal Lung Cancer Model
Vasyl Kilin, C Masb, J-P Wolf, S Constant, L Bonacina. University of Geneva, OncoTheis Sàrl, Epithelix Sàrl, Switzerland
- 11:00-11:15 Exploring cortical hemodynamic responses to spinal pressure stimulation by fNIRS
Andrea Vrana, ML Meier, S Hotz-Boendermaker, BK Humphreys, F Scholkmann. Balgrist, University Hospital Zurich, ETH Zurich
- 11:15-11:30 New advancements in optical sensors to measure blood pressure
Anna Vybornova, J. Solà, F. Braun, M. Proença, M. Bertschi. CSEM Neuchâtel
- 11:30-11:45 Development of a non-invasive transdermal continuous glucose monitor for preterm neonates
Damien de Courten, L Baumann, L Scherer, R. Rossi, L. Boesel, Wolf M, University Hospital Zurich, EMPA St. Gallen
- 11:45-12:00 Creating 3-Dimensional Images of the Brain Vasculature using Optoacoustic Microscopy
Florentin Spadin, M De Niz, M Jaeger, V Heussler, M Frenz. University of Bern
- 12:00-12:15 Quantitative optoacoustic imaging to determine oxygen saturation levels in neonate brains
Leonie Ulrich, L Ahnen, KG Held, M Jaeger, HG Akarçay, S Sánchez Majos, M Wolf, M Frenz. University of Bern, University Hospital Zurich
- 12:15-12:30 Variations of prefrontal cortex oxygenation – A long-term (15 days) single subject study using non-invasive cerebral oximetry based on near-infrared spectroscopy
Felix Scholkmann, S Kleiser, M Wolf. University Hospital Zurich
- 12:30-14:30 Lunch and poster viewing

- 14:30-15:10 How to better understand what is happening in the brain with systemic physiology complemented functional near-infrared spectroscopy - SPC-fNIRS
Ursula Wolf. University of Bern
- 15:10-15:30 Achromatic light patterning and improved image reconstruction for parallelized RESOLFT nanoscopy
A Chmyrov, Marcel Leutenegger, T Grotjohann, A Schönle, J Keller-Findeisen, L Kastrup, S Jakobs, G Donnert, SJ Sahl & SW Hell. Max Planck Institute for Biophysical Chemistry, NanoBiophotonics, Göttingen, Germany.
- 15:30-16:10 Invited talk
- 16:10-16:30 Award ceremony and closing

We gratefully acknowledge our sponsors:



Registration is mandatory

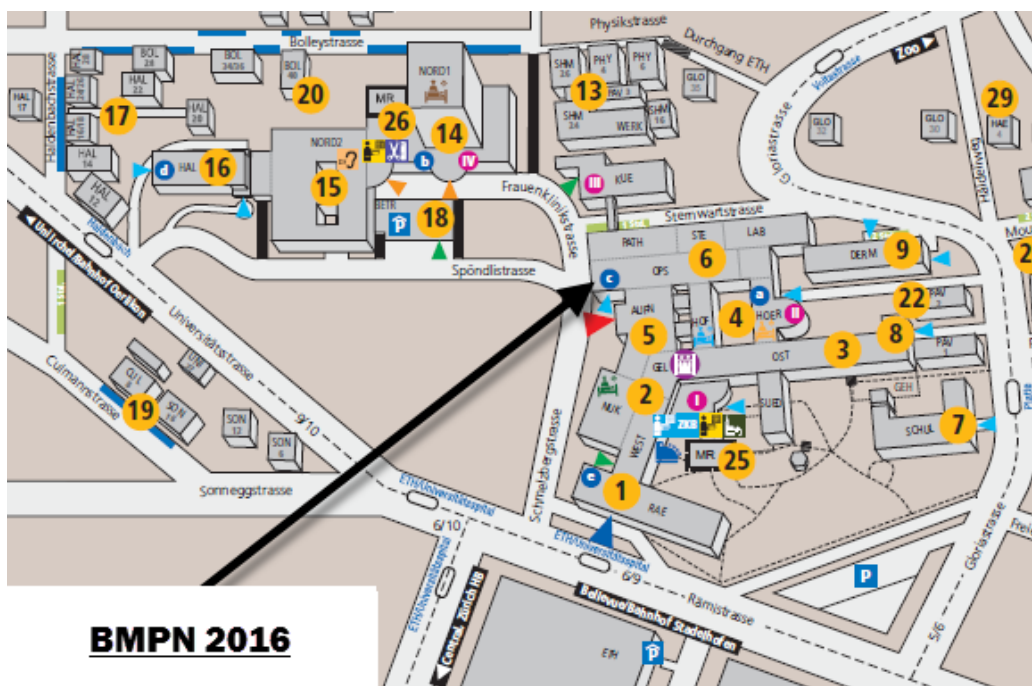
Please register through the website www.bmpn.ch at the latest by November 14, 2016; for further information check here: bmpn2016.weebly.com. The meeting is free of charge for members of BMPN and SSOM. Registration fee at the meeting CHF 50.- or apply for SSOM membership (CHF 30.-)

Contacts

For scientific questions: Prof. Martin Wolf (Martin.Wolf@usz.ch)
 For organizational questions: Tanja da Cunha (Tanja.daCunha@usz.ch)

Venue

The meeting takes place at the University Hospital Zurich, Lecture Hall PATH D 22, Schmelzbergstrasse 12, 8091 Zurich, Switzerland (15-minute walk from Zurich main station).



BMPN 2016