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Progress in Biomedical Photonics 2023

November 24, 2025 from 9:30 to 17:00
Microcity, EPFL Neuchâtel

Program

Will be posted after the abstract submission date.

We gratefully acknowledge financial support:

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PROSPECTIVE

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PHOTONICS & MICROTECHNOLOGY

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Poster Session

Poster 1 The Association of Mother-Infant neural synchrony and bonding – Preliminary Results
Debora Suppiger*, S Guglielmini, T Reinelt, M Wolf, G Natalucci
University of Zurich, University Hospital Zurich

Poster 2 Angular dependence of white and grey matter scattering coefficients from wide-field time-of-flight measurements
Pascal Tijkorte*, G Hannink, M Frenz, A Stefanov
University of Bern

Poster 3 Imaging cerebral blood vessels using near-infrared optical tomography
Djazia Yacheur*, M Ackermann, T Li, A Kalyanov, E Russomanno, A Di Costanzo Mata, M Wolf, J Jiang
University of Zurich, University Hospital Zurich

Poster 4 Deep learning-assisted OCT for early detection of thermal damage during laser osteotomy
Aikaterina Grava*, A Hamidi, A Gonzalez-Jimenez, AA Navarini, PC Cattin, F Canbaz
University of Basel, University Hospital Basel

Poster 5 Photoresponsive Nanocarriers Based on Lithium Niobate Nanoparticles for Harmonic Imaging and On-Demand Release of Anticancer Chemotherapeutics
Paulí Figueras*, A Gheata, G Gaulier, G Campargue, T Leinen, J Vuilleumier, S Kaiser, I Gautschi,, F Riporto, S Beauquis, D Staedler, D Diviani, L Bonacina, S Gerber-Lemaire
University of Geneva

Poster 6 The effect of a lipid surface coating on the permeation of upconverting nanoparticles through a 3D human lung epithelial model
Doyoung Kim*, GA Mandl, M Balkota, J Vernaz, S Huang, S Constant, P Maechler, J Capobianco, L Bonacina
University of Geneva

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Poster Session

Poster 7 Modular and Portable Time-Resolved Fluorescence Measurement System
Raphael Hagen*, F Spano, M Bonmarin, D Fehr
ZHAW

Poster 8 Tissue Oxygenation in Individuals with Spinal Cord Injury: A pilot study
Tarcisi Cantieni*, O da Silva-Kress, U Wolf
University of Bern

Poster 9 Calibration of a back-scattering polarimetric set-up
Vladislav Stefanov*, BP Singh, M Frenz, A Stefanov
University of Bern

Poster 10 Towards computational high-speed video reflection microscopy as a new diagnostic tool to quantitatively identify impaired mucociliary activity
Martin Schneiter, J Schori, J Askew, S De Groof, A Stokes, SA Tschanz, P Arnold, L Müller, M Frenz
University of Bern, Inselspital, BUAS

Poster 11 Dependence of cerebral oxygenation and task performance on colored light exposure and chronotype: Blue and red do not have the same effects on the prefrontal cortex
Hamoon Zohdi, F Scholkmann, U Wolf
University of Bern

Poster 12 Identification of the optimal PBM conditions to promote angiogenesis
Jaroslava Joniová, A Gregor, E Gerelli, M Lambelet, S Déglise, F Allagnat G Wagnières
EPFL, CHUV

Poster 13 Assessing the retina with pupillometry and silence substitution
Martial Geiser
OculoWise

Registration is **required.**

Register **here** by Dec. 4th, 2023. Registration fee is 50Fr. payable in cash on site. Registration is **free** for members of SSOM: **become member for 40Fr./year here.**

For further information about the Biomedical Photonics Network: www.bmpn.ch.

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