



POSTER PRESENTATIONS

- P1 *Development of a new method for cultivating the Mycobacterium bovis BCG substrain Moreau*
Katarzyna Machnik, Mariola Paściak
Hirszfild Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Poland
- P2 *A microfluidic Lab-on-a-Chip device with integrated surface acoustic wave mixing for sensitivity enhancement in porous silicon biosensors*
Jonathan Nyenhuis, **Christopher Heuer**, Josef Zürn, Alexandros Lazanas, Beatriz Pietro-Simon, Christoph Westerhausen, Janina Bahnemann
Institute of Physics, University of Augsburg, Germany; Centre for Advanced Analytics and Predictive Science (CAAPS), University of Augsburg, Germany
- P3 *Autonomous microfluidic toxicity-sensing unit for real-time control of a photocatalytic water treatment reactor*
Andraž Šuligoj, Yuejun Yu, Zach Shidlovsky, Dina Shachar, Sima Yaron, Yaron Paz, **Urška Lavrenčič Štangar**
University of Ljubljana, Faculty of Chemistry and Chemical Technology, Slovenia; Technion – Israel Institute of Technology, Israel
- P4 *Flow-Intensified Wittig synthesis of resveratrol analogues using NADES and continuous phase separation*
Anabela Ljubić, Vitomir Vušak, Milena Mlakić, Domagoj Vrsaljko, **Anita Šalić**, Irena Škorić
PLIVA Hrvatska d.o.o., Croatia; InnoSyn B.V., The Netherlands; University of Zagreb Faculty of Chemical Engineering and Technology, Croatia

- P5 *Microwave-Assisted Continuous Biocatalytic Production of Furfurylamine from Bio-Based Furfural*
Marko Božinović, **Mojca Seručnik**, Anja Damjanović, Kaja Alič, Marina Cvjetko Bubalo, Polona Žnidaršič-Plazl
University of Ljubljana, Faculty of Chemistry and Chemical Technology, Slovenia;
University of Zagreb, Faculty of Food Technology and Biotechnology, Croatia
- P6 *Parallel fabrication of tunable blood clot analogues in hourglass-profiled PDMS microchannels*
Chihchen Chen, Chun-Hsin Hsu, To-Wen Chen, Wei-Jen Soong
Institute of NanoEngineering and Microsystems, National Tsing Hua University, Taiwan; Department of Power Mechanical Engineering, National Tsing Hua University, Taiwan
- P7 *High throughput, single cell optogenetic profiling and multiphysics modelling approach to elucidating spatial effects on protein yield in industrial bioreactors*
Yuhang Xie, Jean-Baptiste Lugagne
Department of Engineering Science, University of Oxford, United Kingdom
- P8 *Flow fermentation: Microsystems for whole-cell bioproduction processes – A first proof-of-concept*
Lina Hollmann, Christoph Symanczyk, Dirk Tischler, Alexander Grünberger
Karlsruhe Institute of Technology, Germany; Ruhr University Bochum, Germany
- P9 *Enhancing ion transport properties of purified Na^+/H^+ co-transport proteins*
G. Perino, G. Rouire, M. Hijazi, B. Barletti, A. Shahi, R. Leonetti, I. Vilgrain, M. Maccarini, D. K. Martin
Université Grenoble-Alpes, France; Institut Laue Langevin, France
- P10 *Optimizing ion transport in nanostructured artificial cells incorporating purified Na^+/H^+ Co-transport proteins into lipid bilayers*

G. Rouire, G. Perino, B. Barletti, M. Hijazi, A. Shahi, R. Leonetti B. Humphreys, I. Vilgrain, M. Maccarini, D. K. Martin

Université Grenoble-Alpes, France; Institut Laue Langevin, France

- P11 *Flow fermentation: When oxygen limits design – Challenges in reactor design, cell retention, and in situ monitoring*

Christoph Symanczyk, Lina Hollman, Manfred Kraut, Alexander Grünberger

Karlsruhe Institute of Technology, Germany; Institute of Process Engineering in Life Sciences, Germany

- P12 *From batch to continuous micro-extractor: Optimization of DES-based ATPS for highly efficient ferulic acid recovery*

Ana Stanić, Tomislav Adžaga, Davor Valinger, Jasenka Gajdoš Kljusurić, Maja Benković, Tamara Jurina, **Ana Jurinjak Tušek**

University of Zagreb Faculty of Food Technology and Biotechnology, Croatia

- P13 *Model-based optimisation of a capillary force-driven microstructured distillation device*

Martina Potočnik, Rok Ambrožič

University of Ljubljana, Faculty of Chemistry and Chemical Technology, Slovenia

- P14 *Kinetic study and pH optimization of amine transaminase-catalyzed furfurylamine synthesis in deep eutectic solvent*

Kaja Alič, Marko Božinović, Mojca Seručnik, Igor Plazl, Polona Žnidaršič Plazl

University of Ljubljana, Faculty of Chemistry and Chemical Technology, Slovenia

- P15 *Kinetic Characterization of an ATP-Dependent Amide Bond Synthetase for the Biocatalytic Synthesis of Amides*
Tomaž Modic, Tadej Menegatti, Žiga Gerdina, András Kotschy, Gábor Tasnádi,
Polona Žnidaršič-Plazl
University of Ljubljana, Faculty of Chemistry and Chemical Technology, Slovenia;
Servier Research Institute of Medicinal Chemistry, Hungary
- P16 *Bioreduction of N-(3-oxobutyl)heterocycles by hydrogel-immobilized whole cells*
Miha Korošec, Tadej Menegatti, Máté Gergő Honvári, László Poppe, Polona
Žnidaršič-Plazl
University of Ljubljana, Faculty of Chemistry and Chemical Technology, Slovenia;
Budapest University of Technology and Economics, Department of Organic Chemistry
and Technology, Hungary; Babeş-Bolyai University of Cluj-Napoca, Faculty of
Chemistry and Chemical Engineering, Romania
- P17 *Integrated biocatalytic hydrogen production catalysed by glucose dehydrogenase and hydrogenase*
Nera Bebek, Renata Vičević, Ana Jurinjak Tušek, Anita Šalić, Bruno Zelić
University of Zagreb Faculty of Chemical Engineering and Technology, Croatia
- P18 *Kinetic characterization of recombinant oxygen-tolerant [NiFe]-hydrogenase for sustainable biohydrogen production*
Renata Vičević, Nera Bebek, Anita Šalić, Bruno Zelić
University of Zagreb Faculty of Chemical Engineering and Technology, Croatia
- P19 *Microfluidic 2D imaging of Bacillus subtilis PS-216 biofilms reveals morphological heterogeneity and spatial division of metabolic labor*
Katarina Šimunović, Lana Mušič, Alexander Grünberger, Iztok Dogša, Ines Mandić
Mulec
University of Ljubljana, Biotechnical Faculty, Department of Microbiology, Slovenia;
Karlsruhe Institute of Technology, Germany