



POSTERS

Posters should be mounted on Tuesday morning
and removed at the end of the poster session.

Tuesday, September 5, 2017

17:30-20:30 POSTER SESSION

- P-1** New Approaches for Peptide-Thioesterification
Yoko Amazaki, Ryo Okamoto, Masayuki Izumi, Yasuhiro Kajihara
Department of Chemistry, Osaka University, Toyonaka, Japan
- P-2** N-2-Hydroxybenzyl-Cysteine Peptides as Efficient Thioester Surrogates for Native Chemical Ligation
Mehdi Amoura, Victor P. Terrier, Dominique Lelievre, **Vincent Aucagne**,
Agnès F. Delmas
CNRS Center for Molecular Biophysics, CBM - UPR CNRS 4301, Orléans, France
- P-3** Development of New Cysteine-Selective Bioconjugation Methods Based on Electrophilic Phosphorous(V) Compounds
Maria Glanz^{1,2}, Marc-André Kasper^{1,2}, Jordi Bertran-Vicente², Christian P. R. Hackenberger^{1,2}
¹*Institute for Chemistry, Humboldt-Universität zu Berlin, Berlin, Germany*
²*Chemical Biology, Leibniz-Forschungsinstitut für Molekulare Pharmakologie, Berlin, Germany*
- P-4** Synthetic Targeted Innate Immune Stimulators to Explore Avidity Effects
Anne Conibear¹, Andre Pötgens², Christian Becker¹
¹*University of Vienna, Faculty of Chemistry, Institute of Biological Chemistry, Vienna, Austria*
²*Syntab Therapeutics GmbH, Research and Development, Aachen, Germany*
- P-5** Revisiting Ligation at Selenomethionine: Insights into Native Chemical Ligation at Selenocysteine and Homoselenocysteine
Ricki Dardashti, Norman Metanis
Chemistry, The Hebrew University of Jerusalem, Jerusalem, Israel

- P-6** Engineering Chromatin States towards Understanding Epigenetic Regulation
Yael David
Chemical Biology Program, MSKCC, New York, New York, USA
- P-7** Engineered Multivalent Sensors to Detect Coexisting Histone Modifications in Living Stem Cells
Aurore Marie-France Delachat¹, Horst Pick¹, Carolin C. Lechner¹, Nora Guidotti¹, Antonio C. A. Meireles-Filho², Cédric Deluz³, Bart Deplancke², David M. Suter³, Beat Fierz¹
¹*Institute of Chemical Sciences and Engineering, Laboratory of Biophysical Chemistry of Macromolecules, Lausanne, Switzerland*
²*Interfaculty Institute of Bioengineering, Laboratory of Systems Biology and Genetics, Lausanne, Switzerland*
³*Interfaculty Institute of Bioengineering, Sponsored Stem Cells Research Chair, Lausanne, Switzerland*
- P-8** Internal Activation Strategy in Peptide Ligations at Sterically Hindered Sites
Suwei Dong, Yue Gui, Yinglu Wang
School of Pharmaceutical Sciences, Peking University, Beijing, China
- P-9** Self-Purified Synthesis of Long Peptide Thioesters
Olaf Fuchs, Robert Zitterbart, Oliver Seitz
Department of Chemistry, Humboldt University of Berlin, Berlin, Germany
- P-10** Unnatural Amino Acids for the Mimicry of Posttranslational Protein Modifications
Simon Geigges, Vanessa Radtke, Daniel Rösner, Andreas Marx
Department of Chemistry, Konstanz Research School Chemical Biology, University of Konstanz, Konstanz, Germany
- P-11** Site-Specific Protein & Antibody Functionalization by Tubulin Tyrosine Ligase
Marcus Gerlach², Andreas Stengl², Tina Stoschek², Verena Waller², Hans Mescheder², Oliver Lemke¹, Bettina Keller¹, Heinrich Leonhardt², Christian Hackenberger^{3,4}, Jonas Helma-Smets², Dominik Schumacher²
¹*Department of Biology, Chemistry, Pharmacy, FU-Berlin, Berlin, Germany*
²*Department of Biology II, LMU München and Center for Integrated Protein Science Munich, Munich, Germany*
³*Department of Chemical-Biology, Leibniz-Institut für Molekulare Pharmakologie (FMP), Germany*
⁴*Department of Chemistry, HU-Berlin, Berlin, Germany*

- P-12** Cyclic Cell Penetrating Peptides for the Direct Cellular Uptake of Functional Proteins
Alice Leonie Baumann^{1,2}, Anselm Schneider^{1,2}, Dominik Schumacher^{1,2}, Henry D. Herce^{3,4}, M. Cristina Cardoso³, Christian P.R. Hackenberger^{1,2}
¹*Chemical Biology, Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP), Berlin, Germany*
²*Institute for Chemistry, Humboldt-Universität zu Berlin, Berlin, Germany*
³*Biology Department, Technische Universität Darmstadt, Darmstadt, Germany*
⁴*Physics Department, Rensselaer Polytechnic Institute, Troy, USA*
- P-13** Aqueous Peptide Bond Formation by α -Amino Thioacids Accelerated under Acidic Oxidative Conditions
Takuya Haraguchi, Ryo Okamoto, Masayuki Izumi, Yasuhiro Kajihara
Department of Chemistry, Osaka University, Toyonaka, Japan
- P-14** Characterization of Protein Ubiquitylation by Combining Bioorthogonal Chemistry and Affinity Proteomics
Eva Hoellmueller, Xiaohui Zhao, Joachim Lutz, Martin Scheffner, Florian Stengel, Andreas Marx
Departments of Chemistry and Biology, University of Konstanz, Konstanz, Germany
- P-15** Palladium Assisted Removal of Cysteine Protecting Groups useful in Chemical Protein Synthesis
Muhammad Jbara, Shay Laps, Suman Kumar Maity, Mallikanti Seenai, Ashraf Brik
Schulich Faculty of Chemistry, Technion-Israel Institute of Technology, Haifa, Israel
- P-16** Proximity-Triggered Covalent Stabilization of Low-Affinity Protein Complexes *in Vitro* and *in Vivo*
Marko Cigler¹, Thorsten Müller¹, Daniel Horn-Ghetko¹, Marie-Kristin von Wrisberg¹, Maximilian Fottner¹, Aymelt Itzen², Matthias Müller³, **Kathrin Lang**¹
¹*Department of Chemistry, Technical University Munich - Institute for Advanced Study, Garching, Germany*
²*Department of Chemistry, Technical Universtiy Munich, Garching, Germany*
³*Faculty of Chemsitry and Chemical Biology, Technical University Dortmund, Dortmund, Germany*
- P-17** A Combinatorial Approach for the Synthesis of Multi-Phosphorylated Peptides: New Tool for Studying Phosphorylation Patterns in Proteins
Samara Mamidi¹, Mayer Daniel², Mattan Hurevich¹, Dmitry Veprintsev², Assaf Friedler¹
¹*Department of Chemistry, The Hebrew University of Jerusalem, Jerusalem, Israel*
²*Biomolecular Research, Paul Scherrer Institute, Villigen PSI, Switzerland*

- P-18** Protein Synthesis Assisted by Peptide Solubilizing Tags Based on Palladium Chemistry
Guy Mann, Emad Eid
Department of Chemistry, Technion-Israel Institute of Technology, Haifa, Israel
- P-19** CANCELLED
- P-20** Developing an Activity Based Probe Applying Sequential Dehydroalanine Strategy on Expressed Proteins Revealed a Potential Deubiquitinase in Modulating α -Globin
Roman Meledin¹, Sachitanand Mali¹, Oded Kliefeld², Ashraf Brik¹
¹*Schulich Faculty of Chemistry, Technion-Israel Institute of Technology, Haifa, Israel*
²*Department of Biology, Technion-Israel Institute of Technology, Haifa, Israel*
- P-21** The Protein Chemical Synthesis Database (PCS)
Vangelis Agouridas¹, Ouafâa El Mahdi², **Oleg Melnyk**¹, Marine Cargoët¹
¹*UMR 8161, Institut Pasteur de Lille, CNRS, Lille, France*
²*Faculté de Fès, Université Sidi Mohamed Ben Abdellah, Fès, Morocco*
- P-22** A Novel Traceless Linker for the Chemical Synthesis of Proteins on the Solid Phase
Oleg Melnyk, Nathalie Ollivier, Rémi Desmet, Hervé Drobecq, Annick Blanpain, Emmanuelle Boll, Bérénice Leclecq, Alexandra Mougel, Jérôme Vicogne
UMR 8161, Institut Pasteur de Lille, CNRS, Lille, France
- P-23** Oxidative Folding of Modified Disulfide-Rich Proteins
Reem Mousa, Norman Metanis
Chemistry, The Hebrew University of Jerusalem, Jerusalem, Israel
- P-24** Chemical Synthesis of Multivalent Ligands and their Applications
Markus Muttenthaler^{1,2}, Darren A. Thompson³, Philip E. Dawson⁴
¹*Institute for Molecular Bioscience, The University of Queensland, Brisbane, Australia*
²*Institute of Biological Chemistry, University of Vienna, Vienna, Austria*
³*Chemistry, University of Idaho, Moscow, USA*
⁴*Chemistry, The Scripps Research Institute, La Jolla, USA*
- P-25** Synthesis of Pollen Tube Attractant Proteins: LUREs
Shunsuke Oishi¹, Damodara Reddy¹, Subramanian Gramani¹, Nao Kamiya², Masahiro Kanaoka², Tetsuya Higashiyama^{1,2}, Jeffrey Bode^{1,3}
¹*Institute of Transformative Bio-Molecules, Nagoya University, Nagoya, Aichi, Japan*
²*Graduate School of Science, Nagoya University, Nagoya, Aichi, Japan*
³*Laboratorium für Organische Chemie, ETH Zurich, Zurich, Switzerland*

- P-26** Total Chemical Synthesis of *O*-GalNAcylated Antifreeze Glycoprotein using the Switchable Reactivity of Peptidyl-*N*-pivaloylguanidine
Ryo Okamoto¹, Ryo Orii¹, Daichi Fukami², Sakae Tsuda², Masayuki Izumi¹, Yasuhiro Kajihara¹
¹*Department of Chemistry, Graduate School of Science, Osaka University, Osaka, Japan*
²*Bioproduction Research Institute, National Institute of Advanced Industrial Science and Technology, Hokkaido, Japan*
- P-27** Unnatural Amino Acids for the Mimicry of Posttranslational Protein Modifications
Vanessa Radtke, Simon Geigges, Daniel Rösner, Andreas Marx
Chemistry, University of Konstanz, Konstanz, Germany
- P-28** HPLC-free Peptide Purification: A General Method for Potential Large-Scale and High-Throughput Purification of Chemically Synthesized Peptides by Catch & Release Filtration
Robert Zitterbart, **Oliver Reimann**, Dominik Sarma
Department of Chemistry (Belyntic), Humboldt-Universität zu Berlin, Berlin, Germany
- P-29** Use of Subtilisin Variants to Assemble Long Peptides, Proteins and Conjugates
Marcel Schmidt^{1,2}, Ana Toplak¹, Rodney Lax¹, Timo Nuijens¹
¹*R&D - Ligation Technology, EnzyPep B.V., Geleen, Netherlands*
²*Van't Hoff Institute of Molecular Sciences, University of Amsterdam, Amsterdam, Netherlands*
- P-30** Synthetic Uncleavable Ubiquitinated Proteins Dissect Proteasome Deubiquitination and Degradation, and Highlight Distinctive Fate of Tetraubiquitin
Sumeet Kumar Singh, Indrajit Sahu, Sachitanand Mali, Hosahalli Hemantha, Oded Kleifeld, Michael H. Glickman, Ashraf Brik
Schulich Faculty of Chemistry, Technion-Israel Institute of Technology, Haifa, Israel
- P-31** Synthesis of Ubiquitin Chains by Bioorthogonal Chemistry and their Application in Proteomic Profiling of Ubiquitin-Interacting Proteins
Xiaohui Zhao
Department of Chemistry, University of Konstanz, Konstanz, Germany
- P-32** An Advance in the Chemical Synthesis of Hydrophobic Longer A β Peptides via the Removable Backbone Modification
Ji-Shen Zheng
School of Life Sciences, University of Science and Technology of China, Hefei, China

