

Medicinal Chemistry & Chemical Biology [MC]**Morning Session – HEIA**

Chair: Fides Benfatti, Syngenta

Lonza

Session Endowment: Lonza

- 10:45 **Engineered Protein Cages for RNA Delivery [MC-011]**
Angela Steinauer, EPFL Lausanne
P. Oeser, G. Barnikol, A. Melgar, A. Steinauer*
- 11:00 **Identification of a peripherally restricted MAGL inhibitor which shows promising activity in disease models of visceral pain and IBD [MC-012]**
Fionn O'Hara, F. Hoffmann-La Roche Ltd.
J. Benz, J. Blaising, U. Grether, M. Guerard, R. Koller, B. Kuhn, M. Reutlinger, W. Saal, M. Wittwer
- 11:15 **Expanding the Chemical Space of Lasso Peptides by Combining Flow Synthesis and Enzymatic Transformation [MC-013]**
Kevin Schiefelbein, University of Zurich
J. Lang, M. Schuster, C. E. Grigglesome, R. Striga, L. Bigler, M. C. Schuman, O. Zerbe, Y. Li, N. Hartrampf*
- 11:30 **Antimicrobial peptide-peptoid hybrids [MC-014]**
Etienne Bonvin, University of Bern; M. Orsi, J. Raymond*
- 11:45 **Two-for-One Biosynthesis: Functional Biosynthetic Stereodivergence in a Gene Cluster via a Dihydroxydnone N-oxide [MC-015]**
Jiajun Ren, University of Zurich
A. Mathew, M. Rodriguez Garcia, T. Kohler, O. Blacque, A. Linden, S. Sieber, L. Eberl*, K. Gademann*,
- 12:00 **Discovery of functional active low-molecular weight antagonists of IL-1B [MC-016]**
Anna Vulpetti, Novartis Pharma AG
- 12:15 **Local environment in biomolecular condensates modulates enzymatic activity across length scales [MC-017]**
Marcos Gil-Garcia, ETH Zurich; A. Benítez-Mateos, M. Papp, F. Stoffel, C. Morelli, K. Normak, K. Makasewicz, L. Faltova, F. Paradisi, P. Arosio*

Afternoon Session – HEIA, Big Lecture Hall

Chair: Dennis Gillingham; University of Basel

- 14:30 **Development and Manufacture of highly potent products at Lonza Visp Development Services [MC-021]**
Elisa González-Fernández, Lonza
- 14:45 **Semi-synthetic nucleosomes to probe sirtuin activity on chromatin [MC-022]**
Carlos Moreno Yruela, EPFL Lausanne; B. E. Ekundayo, E. Calviño Sanlés, D. Ni, H. Stahlberg, B. Fierz*
- 15:00 **A Far-Red Fluorescent Probe to Visualize Gram-Positive Bacteria in Patient Samples [MC-023]**
Krittvas Jantarug, University of Zurich
V. Tripathi, B. Morin, A. Lizuka, N. Khanna, D. Bumann, P. R. Fuentes*
- 15:15 **AI-Enabled Synthesis Prediction in Modern Medicinal Chemistry [MC-024]**
Kenneth Atz, F. Hoffmann-La Roche Ltd; D. F. Nippa, A. T. Müller, U. Grether, R. E. Martin, G. Schneider
- 15:45 **Discovery of NP3-562: a novel, orally bioavailable NLRP3-inhibitor [MC-026]**
Juraj Velcicky, Novartis Pharma AG; P. Janser, N. Gommermann, J. Dawson, K. Beltz, C. Dekker, C. J. Farady, A. Mackay

- 16:00 **Trabectedin derails transcription-coupled nucleotide excision repair to induce DNA breaks in highly transcribed genes [MC-027]**

Vakil Takhaveev, ETH Zurich; K. Son, V. Mor, H. Yu, E. Dillier, N. Zilio, N. J. Püllen, D. Ivanov, H. Ulrich, S. J. Sturla*, O. D. Schärer*

Organic Chemistry [OC]**Morning Session – PER 22, Joseph Deiss (002)**

Chair: Francesca Paradisi, University of Bern

syngenta

Session Endowment: Syngenta

- 10:45 **Site-Selective Direct C–H Arylation [OC-011]**
Ilija Čorić, University of Zurich
- 11:15 **Radical-mediated azidofunctionalization of alkenes [OC-013]**
Pierre Palamini, EPFL Lausanne
E. M. Allouche, J. Waser*
- 11:30 **Photo- and Cobalt-Catalyzed Synthesis of Heterocycles via Cycloisomerization of Unactivated Olefins [OC-014]**
Willi Amberg, ETH Zurich
H. Lindner, T. Martini, D. M. Fischer, E. Moore, E. M. Carreira*
- 11:45 **Asymmetric, Remote C(sp³)-H Arylation via Sulfinyl-Smiles Rearrangement [OC-015]**
Yawen Hu, University of Zurich
C. Hervieu, E. Merino*, C. Nevado*
- 12:00 **Flow Chemistry for the Synthesis of the Anesthetic Mepivacaine, a More Sustainable Approach [OC-016]**
Pablo Díaz-Kruik, University of Bern
F. Paradisi*
- 12:15 **Total Synthesis of the Diterpenes (+)-Randainin D and (+)-Barekoxide via Photoredox-Catalyzed Deoxygenative Allylation [OC-017]**
Oleksandr Vyhivskiy, University of Basel
O. Baudoin*

Afternoon Session – PER 22, Joseph Deiss (002)

Chair: Michal Juricek, University of Zurich

- 14:30 **Enabling technologies at Syngenta: electrochemistry as a case study [OC-021]**
Andrei Iosub, Syngenta Crop Protection AG
M. Lehmann, C. Scarborough
- 15:00 **Vicinal Nucleophilic Disubstitution Reactions of (Densely Substituted) Arenes via 1,2-Bis-Triazenylarenes [OC-023]**
Christeena Mathew, EPFL Lausanne; K. Severin*
- 15:15 **Catalyst-stereocontrolled synthesis of alkyne atropisomers [OC-024]**
Lucía Reyes Méndez, University of Basel
D. Pepe, J. Dong, N. Sidler, D. Häussinger, C. Sparr*
- 15:30 **Electronic and Chiroptical Properties of Cations and Neutral Radicals of Enantiopure Diaza[4]helicenes [OC-025]**
Bibiana Fabri, University of Geneva
T. Funaioli, L. Frédéric, C. Elsner, E. Bordignon, F. Zinna, L. Di Bari, G. Pescitelli, J. Lacour*
- 15:45 **Photochromism in cyclic dipeptides: biocompatible switches and smart materials [OC-026]**
Zbigniew Pianowski, Karlsruhe Institute of Technology
Z. Pianowski*
- 16:00 **Synthesis of curved Polycyclic aromatic macrocycles towards shape-assisted self-assembly [OC-027]**
Ludmilla Sturm, University of Geneva; M. Rickhaus*