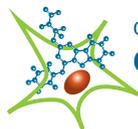
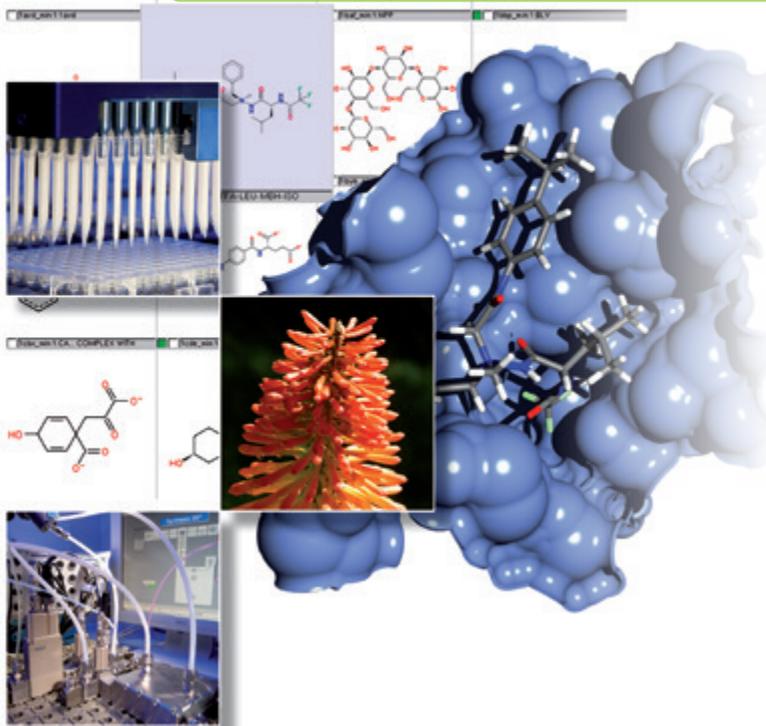
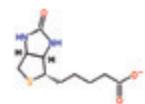


## PROGRAMME

26 – 28 January 2021 · Virtual Conference

# Advances in Chemical Biology

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Gemeinsame Fachgruppe  
**Chemische Biologie**



## PROGRAMME

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### Tuesday, 26 January 2021

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09:00	<b>Tutorial on proteolysis targeting chimeras (PROTACs)</b> K. Ritter, Frankfurt am Main/D
11:30	
	<i>Chair:</i>
12:00	<b>Welcome</b>
12:05	<b>Chemical-proteomic strategies to fight multiresistant bacteria</b> S. Sieber <sup>1</sup> ; <sup>1</sup> TU München, München/D
12:30	<b>Multicomponent Supramolecular Polymers as a Platform for the Design of Glycoconjugate Vaccines</b> P. Besenius <sup>1</sup> ; <sup>1</sup> Johannes Gutenberg-University Mainz, Mainz/D
12:45	<b>Siege vs Trojan Horse Strategy: Design of Drug Conjugates to Fight Bacterial Infections</b> M. Brönstrup <sup>1</sup> ; <sup>1</sup> Helmholtz-Zentrum für Infektionsforschung GmbH, Braunschweig/D
13:00	<b>Sequence-specific synthesis of DNA-protein conjugates</b> E. Weinhold <sup>1</sup> ; G. Hanz <sup>1</sup> ; M. Rauser <sup>1</sup> ; <sup>1</sup> RWTH Aachen University, Aachen/D
13:15	<b>Discussion with the speakers of the previous session</b>
13:25	<b>Coffee break</b>
	<i>Chair:</i>
13:45	<b>EPR distance measurements on long non-coding RNAs</b> S. Kath-Schorr <sup>1</sup> ; <sup>1</sup> Universität zu Köln, Köln/D
14:00	<b>DNA-encoded chemical libraries: cheminformatics - reaction development – compound identification</b> A. Brunschweiler <sup>1</sup> ; <sup>1</sup> TU Dortmund University, Dortmund/D
14:15	<b>Oligonucleotides with partially zwitterionic and cationic backbone structures</b> C. Ducho <sup>1</sup> ; <sup>1</sup> Universität des Saarlandes, Saarbrücken/D
14:30	<b>Discussion with speakers of the previous session</b>
14:40	<b>Inositol pyrophosphates – chemical tools for multimodal messengers</b> D. Fiedler <sup>1</sup> ; D. Furkert <sup>2</sup> ; S. Hostachy <sup>2</sup> ; J. Morgan <sup>2</sup> ; A. Celik <sup>2</sup> ; M. Nadler-Holly <sup>2</sup> ; F. Liu <sup>2</sup> ; <sup>1</sup> Leibniz-Forschungsinstitut für Molekulare Pharmakologie im Forschungsverbund Berlin e.V. (FMP), Berlin/D; <sup>2</sup> Leibniz-Forschungsinstitut für Molekulare Pharmakologie (FMP), Berlin/D
15:05	<b>Coffee break</b>
	<i>Chair:</i>
15:25	<b>Presentations of Journal Editors</b>
15:40	<b>Poster FlashTalks (short lectures of selected posters)</b>
16:10	<b>Poster Exhibition</b>

## PROGRAMME

Wednesday, 27 January 2021

*Chair:*

- 09:00 **Semisynthetic sensor proteins for basic research and medicine**  
K. Johnsson<sup>1</sup>; <sup>1</sup> Max Planck Institute for Medical Research, Heidelberg/D
- 09:25 **Artificial light regulation of allosteric multi-enzyme complexes**  
A. Kneuttinger<sup>1</sup>; R. Sterner<sup>1</sup>; <sup>1</sup> University of Regensburg, Regensburg/D
- 09:40 **Bioorthogonal Turn-on Probes for Photodynamic Therapy**  
G. Linden<sup>1</sup>; L. Zhang<sup>1</sup>; O. Vázquez<sup>1</sup>; <sup>1</sup> Philipps-Universität Marburg, Germany, Marburg/D
- 09:55 **Enlightening actin dynamics by small molecule photoswitches**  
H. Arndt<sup>1</sup>; <sup>1</sup> Universität Jena, Jena/D

10:10 **Discussion with the speakers of the previous session**

10:20 **Coffee break**

*Chair:*

- 10:40 **Engineered SAM synthetase allows reversible photo-caging of DNA**  
F. Michailidou<sup>1</sup>; <sup>1</sup>, Zurich/CH
- 10:55 **Repurposing Different E3 ligases for Targeted Degradation**  
C. Steinebach<sup>1</sup>; Y. Ng<sup>2</sup>; M. Gütschow<sup>1</sup>; J. Krönke<sup>2</sup>; <sup>1</sup> Rheinische Friedrich-Wilhelms-Universität Bonn, Bonn/D; <sup>2</sup> Charité - Universitätsmedizin Berlin, Berlin/D
- 11:10 **Semi-synthesis of the biologically active natural product Brasilicardin A**  
P. Koch<sup>1</sup>; H. Groß<sup>2</sup>; <sup>1</sup> Universität Regensburg, Regensburg/D; <sup>2</sup> Eberhard Karls Universität Tübingen, Tübingen/D
- 11:25 **Getting the Most Out of Your OSMAC Experiments - Culture Condition Triaging and Multivariate Approaches for increased Natural Product Discovery**  
S. Lütz<sup>1</sup>; J. Schwarz<sup>2</sup>; <sup>1</sup> TU Dortmund University, Dortmund/D; <sup>2</sup> TU Dortmund, Lehrstuhl für Bioprozesstechnik, Dortmund/D

11:40 **Discussion with the speakers of the previous session**

11:50 **Lunch break**

## PROGRAMME

Wednesday, 27 January 2021

*Chair:*

- 12:50 **Systems Biochemistry of Peptidic RNA**  
C. Richert<sup>1</sup>; P. Tremmel<sup>1</sup>; <sup>1</sup> University of Stuttgart, Stuttgart/D
- 13:05 **Chemerin: From protein-protein interaction to small cyclic peptide agonists**  
A. Beck-Sickinger<sup>1</sup>; <sup>1</sup> Universität Leipzig, Leipzig/D
- 13:20 **Flow-based Synthesis of Chemically Modified Peptides and Proteins**  
N. Hartrampf<sup>1</sup>; <sup>1</sup> Universität Zürich, Zürich/CH
- 13:35 **Biosynthetic Design of Nonribosomal Peptides**  
H. Kries<sup>1</sup>; <sup>1</sup> Leibniz-Institut für Naturstoff-Forschung und Infektionsbiologie – Hans-Knöll-Institut e.V., Jena/D

13:50 **Discussion with the speakers of the previous session**

14:00 **Coffee break**

*Chair:*

- 14:20 **Semisynthetic approaches for studying post-translational modifications**  
M. Rubini<sup>1</sup>; <sup>1</sup> University College Dublin, Dublin/IRL
- 14:35 **Using synthetic and structural biology to characterise posttranslational lysine-acetylation in cellular function, ageing and disease**  
M. Lammers<sup>1</sup>; <sup>1</sup> University Greifswald, Greifswald/D

14:50 **Discussion with the speakers of the previous session**

15:00 **Short break**

*Chair:*

“Förderpreis” Biochemie (short lectures)

- 15:05 **Chemoselective synthesis of functional drug conjugates**  
M.-A. Kasper<sup>1</sup>; <sup>1</sup> Tubulis GmbH, Berlin/D
- Site-specific ubiquitylation and SUMOylation using genetic-code expansion and sortase**  
M. Fottner<sup>1</sup>; <sup>1</sup> TU München, Munich/D

Willstätter-Preis

- 15:20 **Laudatio „Willstätter-Preis“**
- 15:25 **Pseudo Natural Products – Chemical Evolution of Natural Product Structure**  
H. Waldmann<sup>1</sup>; <sup>1</sup> Max-Planck-Institut für Molekulare Physiologie, Dortmund/D
- 15:50 **General Meeting of the joint working group Chemical Biology**

## Thursday, 28 January 2021

*Chair:*

- 09:00 **KEYNOTE**  
**Ribozymes meet RNA modifications**  
C. Höbartner<sup>1</sup>; <sup>1</sup> Universität Würzburg, Würzburg/D
- 09:25 **Development of chemicals targeting Cas9 stability**  
R. Gama-Brambila<sup>1</sup>; J. Chen<sup>1</sup>; X. Cheng<sup>1</sup>; <sup>1</sup> Goethe-University Frankfurt am Main, Frankfurt am Main/D
- 09:40 **Targeting the Protein Kinase p70S6K $\beta$  with Non-Canonical Electrophilic Warheads**  
L. Haarer<sup>1</sup>; S. Gerstenecker<sup>1</sup>; S. Laufer<sup>1</sup>; M. Gehringer<sup>1</sup>; <sup>1</sup> Eberhard Karls Universität Tübingen, Tübingen/D
- 09:55 **Covalent Inhibitors for the Proteome-wide Identification of New Druggable Targets for Antibiotics**  
P. Zanon<sup>1</sup>; L. Lewald<sup>1</sup>; M. Zollo<sup>1</sup>; K. Bach<sup>1</sup>; B. Beerkens<sup>1</sup>; S. Hacker<sup>1</sup>; <sup>1</sup> Technical University of Munich, Garching/D

10:10 **Discussion with the speakers of the previous session**

10:15 **Coffee break**

*Chair:*

- 10:35 **Rational Design of Selective HDAC1 $\alpha$  Chemical Probes**  
A. Miller<sup>1</sup>; <sup>1</sup> German Cancer Research Center (DKFZ), Heidelberg/D
- 10:50 **Chemical tools for targeting the proteases of SARS-CoV-2**  
T. Böttcher<sup>1</sup>; <sup>1</sup> Universität Konstanz, Konstanz/D
- 11:05 **Morphological Profiling of Small Molecules for Mode-of-Action Prediction**  
S. Ziegler<sup>1</sup>; <sup>1</sup> Max-Planck-Institut für Molekulare Physiologie, Dortmund/D
- 11:20 **Chemical probes for dithiol-disulfide oxidoreductases**  
O. Thorn-Seshold<sup>1</sup>; <sup>1</sup> LMU Munich, Munich/D
- 11:35 **Discussion with the speakers of the previous session**
- 11:45 **Lunch break**

## Thursday, 28 January 2021

*Chair:*

- 12:40 **Application of SNAP-tagged Tools in Chemical Biology**  
T. Stafforst<sup>1</sup>; <sup>1</sup> Universität Tübingen, Tübingen/D
- 12:55 **Unique Chemical Biology Tools for Advanced Metabolomics and Microbiome Metabolism Analysis**  
W. Lin<sup>1</sup>; M. Correia<sup>1</sup>; L. Conway<sup>1</sup>; A. Jain<sup>1</sup>; T. Vallianatou<sup>1</sup>; D. Globisch<sup>1</sup>; <sup>1</sup> Uppsala University, Uppsala/S
- 13:10 **Manipulating and measuring inositol (pyro)phosphate turnover in cells**  
D. Qiu<sup>1</sup>; H. Jessen<sup>2</sup>; <sup>1</sup> Albert-Ludwigs Universität Freiburg, Freiburg/D; <sup>2</sup> Albert Ludwigs Universität Freiburg, Freiburg/D
- 13:25 **Discussion with the speakers of the previous session**
- 13:30 **Ancient Pathogen Genomics: What we learn from past pandemics**  
J. Krause<sup>1</sup>; <sup>1</sup> Max Planck Institute for Evolutionary Anthropology, Leipzig/D
- 13:55 **Wrap up and Closure**

## POSTERPROGRAMM

- P 01 **Structure optimization of Albicidin, a new antibacterial lead structure**  
K. Hommernick<sup>1</sup>; <sup>1</sup> Technische Universität Berlin / Institut für Lebensmitteltechnologie und Lebensmittelchemie, Berlin/D
- P 02 **Splitting single protein NRPSs into independent units allows the simplified generation of novel peptides**  
N. Abbood<sup>1</sup>; K. Bozhüyük<sup>1</sup>; H. Bode<sup>1</sup>; <sup>1</sup> Goethe Universität Frankfurt am Main/D
- P 03 **Identification and biosynthesis of a non-ribosomal tripeptide with unusual amino acid building blocks in the entomopathogenic bacterium *Xenorhabdus hominickii***  
M. Westphalen<sup>1</sup>; J. Chekaiban<sup>1</sup>; Y. Shi<sup>1</sup>; H. Bode<sup>1</sup>; <sup>1</sup> Goethe Universität Frankfurt am Main/D
- P 04 **A natural product from a native *C. elegans* microbiota isolate increases host resistance to infection against pathogenic bacteria**  
M. Drechsler<sup>1</sup>; L. Peters<sup>2</sup>; K. Kissoyan<sup>2</sup>; Y. Shi<sup>1</sup>; P. Grün<sup>1</sup>; K. Dierking<sup>2</sup>; H. Bode<sup>1</sup>; <sup>1</sup> Goethe Universität Frankfurt am Main/D; <sup>2</sup> Christian-Albrechts-Universität zu Kiel/D
- P 05 **A Convergent Total Synthesis of the Death Cap Toxin  $\alpha$ -Amanitin**  
C. Knittel<sup>1</sup>; M. Siegert<sup>1</sup>; R. Süßmuth<sup>1</sup>; <sup>1</sup> TU Berlin/D
- P 06 **Development of chemical tools to selectively manipulate the catalytic activity of the lipid kinase PIP5K1 $\alpha$  in cancer cells**  
E. El-Awaad<sup>1</sup>; K. Strätker<sup>1</sup>; S. Haidar<sup>2</sup>; D. Aichele<sup>1</sup>; Á. Amesty<sup>3</sup>; A. Estévez-Braun<sup>3</sup>; J. Jose<sup>1</sup>; <sup>1</sup> Westfälische Wilhelms-Universität Münster/D; <sup>2</sup> Damascus University, Damascus/SYR; <sup>3</sup> Universidad de La Laguna, Tenerife/E
- P 07 **Biosynthesis and structures of benzoxazolinone natural products in *Pseudomonas chlororaphis* subsp. *piscium* DSM 21509**  
J. Crames<sup>1</sup>; <sup>1</sup> J. W. Goethe University Frankfurt am Main/D
- P 08 **Total Synthesis of Cochicine I and Its Role as Potent Cyclodepsipeptide Endothelin Antagonist**  
R. Schnegotzki<sup>1</sup>; R. Süßmuth<sup>1</sup>; <sup>1</sup> TU Berlin/D
- P 09 **Implementing photocontrol and orthogonal targeting in the SNAP-ADAR editing approach**  
A. Stoppel<sup>1</sup>; A. Hanswillemenke<sup>1</sup>; M. Blackholm<sup>1</sup>; T. Stafforst<sup>1</sup>; <sup>1</sup> University of Tübingen/D
- P 10 **Peptidomimetic as Epigenetic Tools for Protein Complex Modulation**  
V. Trinh<sup>1</sup>; L. Albert<sup>1</sup>; O. Vázquez<sup>1</sup>; <sup>1</sup> Philipps-Universität Marburg/D
- P 11 **The inside matters: On the role of core methionine residues for dynamics, folding and oligomerization of a spider silk protein N-terminal domain**  
U. Hellmich<sup>1</sup>; <sup>1</sup> Johannes Gutenberg-Universität Mainz/D
- P 12 **Impact of site-specific non-enzymatic posttranslational modification on the structure-activity attributes of human Heat Shock Protein 27 (Hsp27)**  
S. Mukherjee<sup>1</sup>; <sup>1</sup> Institute of Biological Chemistry, University of Vienna/A
- P 13 **Detection of Modulators of the Kynurenine Pathway in Cells**  
E. Hennes<sup>1</sup>; S. Ziegler<sup>1</sup>; H. Waldmann<sup>1</sup>; <sup>1</sup> Max Planck Institute of Molecular Physiology, Dortmund/D
- P 14 **Exploring the Biocatalytic Potential of cGAS for Cyclic Dinucleotide Synthesis**  
K. Rosenthal<sup>1</sup>; J. Rolf<sup>1</sup>; R. Siedentop<sup>1</sup>; M. Becker<sup>1</sup>; S. Lütz<sup>1</sup>; <sup>1</sup> TU Dortmund University, Dortmund/D

## POSTERPROGRAMM

- P 15 **Traceless peptide caging of oligonucleotides**  
F. Liedl<sup>1</sup>; <sup>1</sup> FSU Jena/D
- P 16 **Malic enzyme is a novel target of resveratrol**  
E. Tanzil<sup>1</sup>; R. Lang<sup>1</sup>; S. Wälter<sup>1</sup>; J. Müller<sup>2</sup>; J. Franke<sup>1</sup>; <sup>1</sup> HTW Berlin/D; <sup>2</sup> University of Birmingham/UK
- P 17 **Dual-Activatable Cell Tracker for Controlled and Prolonged Single-Cell Labeling**  
S. Püntener<sup>1</sup>; E. Halabi<sup>2</sup>; J. Arasa<sup>2</sup>; V. Collado-Diaz<sup>2</sup>; C. Halin<sup>2</sup>; P. Rivera-Fuentenes<sup>1</sup>; <sup>1</sup> EPFL, Lausanne/CH; <sup>2</sup> ETH Zürich/CH
- P 18 **Structural features of small molecules targeting the RNA repeat expansion that causes genetically defined ALS/FTD**  
A. Ursu<sup>1</sup>; K. Wang<sup>2</sup>; J. Bush<sup>1</sup>; S. Choudhary<sup>1</sup>; J. Chen<sup>1</sup>; J. Baisden<sup>1</sup>; Y. Zhang<sup>3</sup>; T. Gendron<sup>3</sup>; L. Petrucelli<sup>3</sup>; I. Yildirim<sup>2</sup>; M. Disney<sup>1</sup>; <sup>1</sup> The Scripps Research Institute, Jupiter, Florida/USA; <sup>2</sup> Florida Atlantic University, Jupiter, Florida/USA; <sup>3</sup> Mayo Clinic, Jacksonville, Florida /USA
- P 19 **Molecular Activation Profile of tipA in *Streptomyces coelicolor***  
S. Walter<sup>1</sup>; C. Roessler<sup>1</sup>; T. Winkler<sup>1</sup>; V. Nasufovic<sup>1</sup>; H. Arndt<sup>1</sup>; <sup>1</sup> Friedrich-Schiller-Universität Jena, Jena/D
- P 20 **Universal single-residue terminal labels for fluorescent live cell imaging of microproteins**  
L. Lafranchi<sup>1</sup>; D. Schlesinger<sup>1</sup>; S. Elsässer<sup>1</sup>; <sup>1</sup> Karolinska Institutet, Solna/S
- P 21 **Diversification of a Polyether Antibiotic By Exploitation of post-PKS Promiscuity**  
S. Heinrich<sup>1</sup>; M. Grote<sup>1</sup>; S. Kushnir<sup>1</sup>; F. Schulz<sup>1</sup>; <sup>1</sup> Ruhr-University Bochum/D
- P 22 **Revisiting the interaction of heme with hemopexin**  
M. Detzel<sup>1</sup>; B. Schmalohr<sup>1</sup>; F. Steinbock<sup>1</sup>; M. Hopp<sup>1</sup>; A. Paul George<sup>1</sup>; D. Imhof<sup>1</sup>; <sup>1</sup> Uni Bonn/D
- P 23 **Targeting of Gai/s Protein by Peptidic Guanine Nucleotide Exchange Modulators**  
A. Papanian<sup>1</sup>; B. Nubbemeyer<sup>1</sup>; A. Paul George<sup>2</sup>; T. Kühl<sup>1</sup>; M. Beck<sup>1</sup>; R. Maghraby<sup>1</sup>; M. Shetab Boushehri<sup>1</sup>; M. Mühlhaupt<sup>3</sup>; E. Pfeil<sup>1</sup>; S. Annala<sup>1</sup>; D. Pei<sup>4</sup>; H. Ammer<sup>3</sup>; D. Imhof<sup>1</sup>; <sup>1</sup> Uni Bonn/D; <sup>2</sup> BioSolvIT, Sankt Augustin/D; <sup>3</sup> Ludwig Maximilian University of Munich/D; <sup>4</sup> The Ohio State University, Ohio/USA
- P 24 **Encapsulins as prodrug activating nanoreactors**  
P. Lohner<sup>1</sup>; M. Zmysliak<sup>1</sup>; J. Thurn<sup>1</sup>; J. Pape<sup>2</sup>; R. Gerasimaite<sup>2</sup>; S. Groer<sup>1</sup>; A. Walther<sup>1</sup>; S. Hell<sup>2</sup>; G. Lukinavicius<sup>2</sup>; T. Hugel<sup>1</sup>; C. Jessen-Trefzer<sup>1</sup>; <sup>1</sup> Albert-Ludwigs University Freiburg/D; <sup>2</sup> Max Planck Institute for Biophysical Chemistry, Göttingen/D
- P 25 **Targeting Latent Persistence of KSHV through Inhibition of LANA-DNA Interaction**  
A. Berwanger<sup>1</sup>; P. Kirsch<sup>1</sup>; J. Rinkes<sup>1</sup>; S. Stein<sup>2</sup>; V. Jakob<sup>1</sup>; T. Schultz<sup>2</sup>; M. Empting<sup>1</sup>; <sup>1</sup> Helmholtz Institut für Pharmazeutische Forschung Saarland, Saarbrücken/D; <sup>2</sup> Medizinische Hochschule Hannover (MHH), Hannover/D
- P 26 **Discovery of nucleic acid binding molecules from combinatorial biohybrid nucleobase peptide libraries**  
S. Pomplun<sup>1</sup>; <sup>1</sup> MIT, Cambridge/USA
- P 27 **Histone deacetylases erase histone lactylation**  
C. Moreno Yruela<sup>1</sup>; M. Bæk<sup>1</sup>; A. Nielsen<sup>1</sup>; J. Bolding<sup>1</sup>; C. Olsen<sup>1</sup>; <sup>1</sup> University of Copenhagen/DK

## POSTERPROGRAMM

- P 28 **Increasing fluorophore brightness through engineering of a self-labeling protein tag**  
M. Frei<sup>1</sup>; M. Tarnawski<sup>1</sup>; J. Hiblot<sup>1</sup>; K. Johnsson<sup>1</sup>; <sup>1</sup> MPI for Medical Research, Heidelberg/D
- 
- P 29 **Towards modulation of polymicrobial communities in chronic lung diseases through targeting the Carbon Storage regulator A (CsrA)**  
Y. Wu<sup>1</sup>; B. Zoller<sup>1</sup>; V. Jakob<sup>1</sup>; M. Kappus<sup>2</sup>; M. Hust<sup>3</sup>; M. Empting<sup>1</sup>; <sup>1</sup> Helmholtz Institute for Pharmaceutical Research Saarland (HIPS), Saarbrücken/D; <sup>2</sup> Saarland University, Saarbrücken/D; <sup>3</sup> Technische Universität Braunschweig / Institut für Biochemie, Braunschweig/D
- 
- P 30 **Travelling Back in Time: Adding a New Dimension in the Natural Product Space**  
M. Klapper<sup>1</sup>; M. Borry<sup>2</sup>; S. Chowdhury<sup>1</sup>; A. Hübner<sup>2</sup>; R. Herbst<sup>1</sup>; I. Velsko<sup>2</sup>; J. Frangenberg<sup>1</sup>; C. Warinner<sup>2</sup>; P. Stallforth<sup>1</sup>; <sup>1</sup> Leibniz Institute for Natural Product Research and Infection Biology – Hans-Knöll-Institute e. V., Jena/D; <sup>2</sup> Max Planck Institute for the Science of Human History, Jena/D
- 
- P 31 **Using Hsp40 Affinity to Profile Destabilized Proteomes**  
G. Quanrud<sup>1</sup>; J. Genereux<sup>1</sup>; <sup>1</sup> University of California Riverside, CA/USA
- 
- P 32 **Studies on the biological properties of nucleoside antibiotics and their analogues**  
S. Weck<sup>1</sup>; G. Niro<sup>1</sup>; J. Meiers<sup>2</sup>; C. Ducho<sup>1</sup>; <sup>1</sup> Saarland University, Saarbrücken/D; <sup>2</sup> Helmholtz Institute for Pharmaceutical Research Saarland (HIPS), Saarbrücken/D
- 
- P 33 **Photocontrol of DNA Function**  
D. Hartmann<sup>1</sup>; <sup>1</sup> University of Oxford/UK
- 
- P 34 **From Pan-Inhibitor to Selective HDAC10 Inhibitor by Substitution of a Single Methylene in Vorinostat (SAHA)**  
R. Steimbach<sup>1</sup>; J. Hummel-Eisenbeiß<sup>1</sup>; N. Gunkel<sup>1</sup>; A. Miller<sup>1</sup>; <sup>1</sup> Deutsches Krebsforschungszentrum, Heidelberg/D
- 
- P 35 **Chemo-Enzymatic Labelling Reactions for Orthogonal Fluorescent Detection of Epigenetic DNA Modifications**  
L. Käver<sup>1</sup>; L. Schütz<sup>1</sup>; S. Schönemeier<sup>1</sup>; E. Weinhold<sup>1</sup>; B. Zschörnig<sup>2</sup>; A. Krause<sup>2</sup>; <sup>1</sup> RWTH Aachen Universität, Aachen/D; <sup>2</sup> Jena Bioscience GmbH, Jena/D
- 
- P 36 **Detection and Characterization of G-Quadruplex-binding Proteins**  
S. Eiden<sup>1</sup>; L. Passchier<sup>1</sup>; V. Rauser<sup>1</sup>; E. Weinhold<sup>1</sup>; <sup>1</sup> RWTH Aachen University - Institut für Organische Chemie, Aachen/D
- 
- P 37 **Interfering with DNA Polymerase-dependent Sequencing by sterically demanding Template Modifications**  
M. Eiden<sup>1</sup>; E. Weinhold<sup>1</sup>; <sup>1</sup> RWTH Aachen University, Aachen/D
- 
- P 38 **Microbiome Associated with Fungus-growing Termite --A hidden Treasure Trove for Drug discovery**  
H. Guo<sup>1</sup>; S. Jan<sup>1</sup>; R. Luka<sup>1</sup>; B. Christine<sup>1</sup>; <sup>1</sup> Leibniz Institute for Natural Product Research and Infection Biology e.V. Hans-Knöll-Institute, Jena/D
- 
- P 39 **DNA methylation detection guided by docking simulation of the CpG-specific DNA methyltransferase M.Mpel with cofactor analogues**  
L. Schütz<sup>1</sup>; J. Gossen<sup>2</sup>; L. Rein<sup>1</sup>; G. Rossetti<sup>2</sup>; E. Weinhold<sup>1</sup>; <sup>1</sup> RWTH Aachen University, Aachen/D; <sup>2</sup> Forschungszentrum Juelich/D

## POSTERPROGRAMM

- P 40 **The proteome analysis to determine miR-197-3p therapeutic effect on MCF-7 breast cancer**  
D. Cansaran Duman<sup>1</sup>; B. Çolak<sup>1</sup>; <sup>1</sup> Ankara University, Ankara/TR
- 
- P 41 **The expression analysis of miRNAs identified using vulpinic acid in breast cancer treatment**  
D. Cansaran Duman<sup>1</sup>; B. Çolak<sup>1</sup>; <sup>1</sup> Ankara University, Ankara/TR
- 
- P 42 **MT-21 covalently modifies cysteine 120 of fatty-acid binding protein 5, yielding a redox sensitive probe**  
E. Svenningsen<sup>1</sup>; <sup>1</sup> Aarhus University, Aarhus C/DK

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