



# DECHEMA

Gesellschaft für Chemische Technik  
und Biotechnologie e.V.

## PROGRAMME

19 - 21 February 2025  
Kloster Irsee

# 37th Irsee Natural Product Symposium

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## CONTENTS

## PROGRAMM

Wednesday, 19 February 2025 .....	3
Thursday, 20 February 2025 .....	4
Friday, 21 February 2025 .....	6

POSTER LIST .....	7
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## PROGRAMME

## Wednesday, 19 February 2025

11:30	<b>Board Meeting (on invitation – only for members)</b>
13:30	Welcome Snack
	<b>OPENING SESSION</b> <i>Chair: Ingo Hartung; Merck KgaA, Darmstadt/DE</i>
14:30	<b>Opening of Irsee Natural Product Symposium</b>
14:35	<b>Discovery and Application of Microbial Natural Product Biosynthetic Enzymes</b> <b>Tobias A. M. Gulder<sup>1</sup></b> <sup>1</sup> Helmholtz Institute for Pharmaceutical Research Saarland, Saarbrücken/DE
15:00	<b>Natural products from exotic and well-known bacteria</b> <b>Jörn Piel<sup>1</sup></b> <sup>1</sup> ETH Zürich, Zürich/CH
15:25	Short break
	<b>POSTER SESSION</b> <i>Chair: Stephanie Grond; Eberhard Karls Universität Tübingen, Tübingen/DE</i>
15:35	<b>Poster presentations (Part I)</b>
16:55	Break at the posters
17:25	<b>Poster presentation (Part II)</b>
18:45	<b>Get-together at the posters</b>

## SAVE THE DATE

38th Irsee Natural Product Symposium  
24.-27.2.2026

## PROGRAMME

Thursday, 20 February 2025

YOUNG RESEARCHERS' SESSION <i>Chair: TBA</i>	
09:00	<b>Artificial Intelligence-based Expansion of Natural Product Biosynthetic Space</b> <u>Eric Helfrich</u> <sup>1</sup> <sup>1</sup> Goethe University Frankfurt, Frankfurt/DE
09:25	<b>Deciphering recombination schemes in the evolution of natural product diversity</b> <u>Martin Baunach</u> <sup>1</sup> <sup>1</sup> Rheinische Friedrich-Wilhelms-Universität Bonn, Bonn/DE
09:50	<b>Monitoring penicillin ring formation through a crystallographic and spectroscopic lens</b> <u>Patrick Rabe</u> <sup>1</sup> ; <u>Allen Orville</u> <sup>2</sup> ; <u>Jan Kern</u> <sup>3</sup> ; <u>Christopher Schofield</u> <sup>1</sup> <sup>1</sup> University of Oxford, Oxford/GB; <sup>2</sup> Diamond Light Source, Didcot/GB; <sup>3</sup> Lawrence Berkeley National Laboratory, Berkeley/US
10:15	Coffee break
YOUNG RESEARCHERS' SESSION <i>Chair: Roderich D. Süssmuth; Technische Universität Berlin, Berlin/DE</i>	
10:55	<b>SynBio and AI-Driven Optimization of Microbial Megasyntetases</b> <u>Kenan Bozhüyük</u> <sup>1</sup> ; <u>SeounGun Bang</u> <sup>1</sup> ; <u>Biyen Chen</u> <sup>1</sup> ; <u>Kevin George</u> <sup>2</sup> ; <u>Olga Kalinina</u> <sup>1</sup> ; <u>Emre Bülbül</u> <sup>1</sup> ; <u>Dietrich Klakow</u> <sup>2</sup> <sup>1</sup> Helmholtz-Institut für Pharmazeutische Forschung Saarland (HIPS), Saarbrücken/DE; <sup>2</sup> Universität des Saarlandes, Saarbrücken/DE
11:20	<b>Shedding Light on Fungal Defense: Phototoxic Pigments as a Source of Therapeutic Agents</b> <u>Bianka Siewert</u> <sup>1</sup> <sup>1</sup> Universität Innsbruck, Abteilung für Pharmakognosie, Institut für Pharmazie, Innsbruck/AT
11:45	<b>Autologous DNA mobilization and multiplication expedite natural products discovery from bacteria</b> <u>Chengzhang Fu</u> <sup>1</sup> <sup>1</sup> Helmholtz Institute for Pharmaceutical Research Saarland, Saarbrücken/DE
12:10	Lunch break
SYNTHESES <i>Chair: Andreas Kirschning; Leibniz Universität Hannover, Hannover/DE</i>	
13:40	<b>On the synthesis of Complex Taxane Diterpenes</b> <u>Tanja Gaich</u> <sup>1</sup> <sup>1</sup> Universität Konstanz, Konstanz/DE

## PROGRAMME

Thursday, 20 February 2025

14:05	<b>New Methods for the Chemical Synthesis of Post-Translationally Modified Peptides and Proteins</b> <u>Nina Hartrampf</u> <sup>1</sup> <sup>1</sup> Universität Zürich, Zürich/CH
14:30	<b>Towards A Total Synthesis of Dimeric Nuphar Alkaloids</b> <u>Anand Acharya</u> <sup>1</sup> ; <u>Thomas Scholz</u> <sup>1</sup> ; <u>Christoph Schneider</u> <sup>1</sup> <sup>1</sup> Universität Leipzig, Leipzig/DE
14:55	<b>Chemistry Innovation and Biological Discovery through Natural Product Total Synthesis</b> <u>Mingji Dai</u> <sup>1</sup> <sup>1</sup> Emory University, Atlanta/US
15:20	Coffee break
APPLIED NEW PRODUCT RESEARCH <i>Chair: Ingo Hartung; Merck KGaA, Darmstadt/DE</i>	
16:00	<b>Tailored Payload-Linker Design for Antibody- and Small Molecule- Drug Conjugates: Inspired by Nature and Going Beyond</b> <u>Hans-Georg Lerchen</u> <sup>1</sup> <sup>1</sup> Vincerx Pharma GmbH, Monheim am Rhein/DE
16:25	<b>Elaborate Mechanisms of Natural Product Antibiotics</b> <u>Heike Brötz-Oesterhelt</u> <sup>1</sup> <sup>1</sup> University Tübingen, Tübingen/DE
18:00	Dinner
EVENING LECTURE AND AWARD CEREMONIES <i>Chair: Tobias A. M. Gulder; Helmholtz Institute for Pharmaceutical Research Saarland, Saarbrücken/DE</i>	
20:00	<b>Of Natural Products and the Chemistry they Inspire</b> <u>Alois Fürstner</u> <sup>1</sup> <sup>1</sup> Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr/DE
21:00 - 21:15	Award Ceremonies

## PROGRAMME

## POSTER

Friday, 21 February 2025

BIOSYNTHESIS & CHEMO-ENZYMATIC APPROACHES	
<i>Chair: Tobias A. M. Gulder; Helmholtz Institute for Pharmaceutical Research Saarland, Saarbrücken/DE</i>	
08:30	<b>Engineering protein catalysts for synthetic applications</b> <u>Rebecca Buller</u> <sup>1</sup> <sup>1</sup> Zurich University of Applied Sciences (ZHAW), Wädenswil /CH
08:55	<b>Molybdenum-mediated carbon-sulfur bond making and breaking</b> <u>Florian Seebeck</u> <sup>1</sup> <sup>1</sup> University of Basel, Basel/CH
09:20	<b>Enzyme Discovery, Engineering and Applications in Stereoselective Organic Synthesis</b> <u>Uwe Bornscheuer</u> <sup>1</sup> <sup>1</sup> Universität Greifswald, Greifswald/DE
09:45	Coffee break
BIOSYNTHESIS & CHEMO-ENZYMATIC APPROACHES	
<i>Chair: Elke Dittmann; Universität Potsdam, Potsdam-Golm/DE</i>	
10:25	<b>Teixobactin-like antibiotics – differential attack on the bacterial cell wall</b> <u>Tanja Schneider</u> <sup>1</sup> <sup>1</sup> University of Bonn, University Hospital Bonn, Bonn/DE
10:50	<b>Directed Evolution of Nonribosomal Peptide Synthetases</b> <u>Hajo Kries</u> <sup>1</sup> <sup>1</sup> University of Stuttgart, Stuttgart/DE
11:15	<b>A small thiazoline originating from a two-domain RiPP precursor</b> <u>Jethro Hemmann</u> <sup>1</sup> ; <u>Michael Lammers</u> <sup>2</sup> ; <u>Gerald Lackner</u> <sup>3</sup> <sup>1</sup> Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute (Leibniz-HKI), Jena/DE; <sup>2</sup> University of Greifswald, Greifswald/DE; <sup>3</sup> University of Bayreuth, Kulmbach/DE
11:40	<b>Closing of Irsee Natural Product Symposium</b>
12:00	Farewell Snack
12:30	<b>Bus Transfer to Kaufbeuren station</b>

P 01	<b>Light-induced benzoxazole production in <i>Myxococcus xanthus</i></b> <u>Dustin Joshua Vollmann</u> <sup>1</sup> ; Markus Nett <sup>1</sup> <sup>1</sup> TU Dortmund University, Dortmund/DE
P 02	<b>Transport of steroidal glycoalkaloids across the intestinal barrier</b> Lucas Keuter <sup>1</sup> ; Matthias Behrens <sup>1</sup> ; <u>Hans-Ulrich Humpf</u> <sup>1</sup> <sup>1</sup> Universität Münster, Münster/DE
P 03	<b>A NMR probe for monitoring photoreactions</b> <u>Thomas Paululat</u> <sup>1</sup> <sup>1</sup> Universität Siegen, Siegen/DE
P 04	<b>Identifying specialized metabolites from a novel <i>Streptomyces</i> found in the microbiome of the European spruce bark beetle</b> <u>Anne Goll</u> <sup>1</sup> ; <u>Thomas Paululat</u> <sup>2</sup> ; <u>Andreas Bechthold</u> <sup>1</sup> <sup>1</sup> University of Freiburg, Freiburg/DE <sup>2</sup> Universität Siegen, Siegen/DE
P 06	<b>Teixobactin-like antibiotics – differential attack on the bacterial cell wall</b> <u>Robin Teufel</u> <sup>1</sup> <sup>1</sup> Universität Basel, Basel/CH
P 07	<b>Chemical Case Studies from Natural Products of Recent Interest in the Crop Protection Industry</b> <u>Olivier Loiseleur</u> <sup>1</sup> <sup>1</sup> Syngenta Crop Protection AG, Stein/CH
P 08	<b>A Total Biosynthesis Platform for Known and New Cytochalasans</b> <u>Russell J. Cox</u> <sup>1</sup> ; <u>Jennifer Gerke</u> <sup>1</sup> <sup>1</sup> Leibniz University Hannover, Hannover/DE
P 09	<b>SARP-guided activation of secondary metabolite gene clusters in actinomycetes</b> <u>Yvonne Mast</u> <sup>1</sup> ; <u>Roman Makitrynskyi</u> <sup>1</sup> ; <u>Juan-Pablo Gomez-Escribano</u> <sup>1</sup> ; <u>Felix Gonther</u> <sup>1</sup> ; <u>Ole Tiemann</u> <sup>2</sup> ; <u>Wulf Blankenfeldt</u> <sup>2</sup> ; <u>Tobias Mentzel</u> <sup>3</sup> ; <u>Carlos Henrique Correa dos Santos</u> <sup>4</sup> ; <u>Ludger Wessjohann</u> <sup>4</sup> <sup>1</sup> Leibniz Institut DSMZ - Deutsche Sammlung für Mikroorganismen und Zellkulturen GmbH, Braunschweig/DE; <sup>2</sup> Helmholtz-Zentrum für Infektionsforschung, Braunschweig/DE; <sup>3</sup> BASF, Limburger Hof/DE; <sup>4</sup> Leibniz Institut für Pflanzenbiochemie, Halle/DE
P 10	<b>Merging Organic Synthesis and (Oligo)Enzyme Catalysis for Expanding the „Terpenome“</b> <u>Henry Struwe</u> <sup>1</sup> ; <u>Andreas Kirschning</u> <sup>1</sup> <sup>1</sup> Leibniz Universität Hannover, Hannover/DE
P 11	<b>Biomarker Identification for Depressive Disorders via Untargeted Metabolomics</b> <u>Mansha Soni</u> <sup>1</sup> <sup>1</sup> Max Planck Institute of Molecular Physiology, Dortmund, Germany, Bochum/DE

As of November 2024. All speakers and titles are subject to change.

## POSTER

- P 12 **Synthesis and Biology of Pseudomonal Cyclic Lipodepsipeptides**  
Yuko Bando<sup>1</sup>; Hans-Dieter Arndt<sup>1</sup>  
<sup>1</sup> Friedrich-Schiller Universität Jena, Jena/DE
- P 13 **Progress toward the total synthesis of Echinoflorine A**  
Vladyslav Aharkov<sup>1</sup>; Ulrich Koert<sup>1</sup>  
<sup>1</sup> Phillips University of Marburg, Marburg/DE
- P 14 **Towards the Total Synthesis of Rubradirin**  
Micha D. Hofer<sup>1</sup>; Anja Eugster<sup>1</sup>; Fabienne Fisch<sup>1</sup>; Karl Gademann<sup>1</sup>  
<sup>1</sup> Universität Zürich, Zurich/CH
- P 15 **Hop compounds as alternative to antibiotic growth promoters for poultry: A study of their antimicrobial and cytotoxic effects**  
Luisa Kober<sup>1</sup>; Kathrin Castiglione<sup>1</sup>  
<sup>1</sup> FAU Erlangen-Nürnberg, Erlangen/DE
- P 16 **Metabolic engineering of *Aspergillus violaceofuscus* enables discovery of violafuranone A**  
Carsten Wieder<sup>1</sup>; Clara Laubenstein<sup>2</sup>; Linda Marie Fischer<sup>2</sup>; Rainer Wiechert<sup>2</sup>; Kevin Seipp<sup>2</sup>; Anja Schöffler<sup>1</sup>; Till Opatz<sup>2</sup>; Eckhard Thines<sup>1</sup>  
<sup>1</sup> Institut für Biotechnologie und Wirkstoff-Forschung gGmbH, Mainz/DE; <sup>2</sup> Johannes Gutenberg-University, Mainz/DE
- P 17 **Mechanistic Investigations on Microbial Terpene Synthases**  
Heng Li<sup>1</sup>; Jeroen Dickschat<sup>2</sup>  
<sup>1</sup> University of Bonn, Bonn/DE; <sup>2</sup> university of Bonn, Bonn/DE
- P 18 **“Towards the Total Synthesis of two Cytotoxic Triterpenes from Cultures of a Kenyan *Laetiporus* sp. (Basidiomycota)”**  
Raffaele Schettino<sup>1</sup>; Oliver Spieß<sup>1</sup>; Dieter Schinzer<sup>1</sup>  
<sup>1</sup> OVGU Otto-von-Guericke-University Magdeburg, Magdeburg/DE
- P 19 **MyxoTech GmbH: harnessing the power of microbial evolutionary diversity**  
Ronald Garcia<sup>1</sup>; Peter Sullivan<sup>1</sup>; Jennifer Herrmann<sup>1</sup>; Thomas Hesterkamp<sup>1</sup>; Olga Kalinina<sup>1</sup>; Rolf Müller<sup>1</sup>  
<sup>1</sup> MyxoTech GmbH, Saarbrücken/DE
- P 20 **Novel-to-Nature NRPS-Like Benzoquinone Products**  
Nicholas Moody<sup>1</sup>; Matthias Brock<sup>1</sup>  
<sup>1</sup> University of Nottingham, Nottingham/GB
- P 21 **Ribosomal pentapeptide nitration for nonribosomal peptide antibiotic precursor biosynthesis**  
Max Crüsemann<sup>1</sup>  
<sup>1</sup> Universität Bonn, Bonn/DE

## POSTER

- P 22 **Chemoselective mono- and dimethylation of aromatic compounds by the SAM-dependent C-methyltransferase NapB5**  
Juliane Breittgens<sup>1</sup>; Michael Müller<sup>1</sup>  
<sup>1</sup> Albert-Ludwigs-Universität Freiburg, Freiburg/DE
- P 23 **Exploring the structural diversity of cyclic pentapeptides using precursor-directed biosynthesis in the heterologous production platform *Aspergillus nidulans***  
Wolfgang Wohlleben<sup>1</sup>; Julia Bischof<sup>1</sup>; Hannes Maier<sup>1</sup>; Andreas Kulik<sup>1</sup>; Harald Groß<sup>1</sup>  
<sup>1</sup> University Tübingen, Tübingen/DE
- P 24 **Triple homologation of leucine is required for oligopeptide biosynthesis in a fungal mycoparasite**  
Robin Sonnabend<sup>1</sup>; Johannes Rassbach<sup>1</sup>; Benjamin Bartels<sup>2</sup>; Kerstin Voigt<sup>1</sup>; Christian Hertweck<sup>2</sup>; Markus Greßler<sup>1</sup>  
<sup>1</sup> Friedrich-Schiller-Universität Jena, Jena/DE; <sup>2</sup> Leibniz-Institut für Naturstoffforschung und Infektionsbiologie, Hans-Knöll-Institut e.V., Jena/DE
- P 25 **AI driven Engineering of Non-Ribosomal Peptide Synthase Domains**  
SeoungGun Bang<sup>1</sup>; Emre F. Bülbül<sup>1</sup>; Kevin George<sup>2</sup>; Olga Kalinina<sup>1</sup>; Dietrich Klakow<sup>2</sup>; Kenan A. J. Bozhüyük<sup>1</sup>  
<sup>1</sup> Helmholtz-Institut für Pharmazeutische Forschung Saarland (HIPS), Saarbrücken/DE; <sup>2</sup> Universität des Saarlandes, Saarbrücken/DE
- P 26 **The path to uncovering hidden biologically active metabolites from *Stachybotrys chartarum***  
Svetlana A. Kalinina<sup>1</sup>; Katharina Steinert<sup>1</sup>; Alica Fischle<sup>1</sup>  
<sup>1</sup> University of Münster, Münster/DE
- P 27 **Out of Pandora's Box: Antibacterial Siderophores of *Pandora* Pathogens and Their Impact on the Diseased Lung Microbiota**  
Elena Herzog<sup>1</sup>; Christian Hertweck<sup>1</sup>  
<sup>1</sup> Leibniz Institut für Naturstoff-Forschung und Infektionsbiologie - Hans-Knöll-Institut e.V., Jena/DE
- P 28 **In Vitro Psilocybin Synthesis by Co-Immobilized Enzymes**  
Tim Schäfer<sup>1</sup>; Dirk Hoffmeister<sup>1</sup>  
<sup>1</sup> Friedrich-Schiller Universität Jena, Jena/DE
- P 29 **Xanthohumol C: A Natural Chalcone with Neurogenic Potential from Hops**  
Corinna Urmann<sup>1</sup>; Lara Bieler<sup>2</sup>; Sebastian Couillard-Després<sup>2</sup>; Herbert Riepl<sup>1</sup>  
<sup>1</sup> TUM Campus Straubing; Weihenstephan-Triesdorf University of Applied Sciences, Straubing/DE; <sup>2</sup> Paracelsus Medical University Salzburg, Salzburg/AT
- P 30 **Precision in Complex Molecule Assembly: Advancing Alkylation Techniques with Prenyltransferases**  
Simon Przetak<sup>1</sup>; Jörg Pietruszka<sup>1</sup>  
<sup>1</sup> Heinrich Heine University Düsseldorf, Jülich/DE

## POSTER

- P 31 **Identification and biosynthesis of an antifungal lipopeptide from the Burkholderia cepacia complex**  
Lei Zhong<sup>1</sup>; Agnes Mühlenweg<sup>1</sup>; Dou Hong<sup>1</sup>; Sarah Yammine<sup>2</sup>; Annette Poch<sup>1</sup>; Dingchang Xu<sup>1</sup>; Yasemin Kirimlioglu<sup>1</sup>; Lisa Großgloß<sup>1</sup>; Melek Bittermann<sup>1</sup>; Franziska Graeger<sup>1</sup>; Maria Seidel<sup>1</sup>; Manuel Gemander<sup>1</sup>; Sebastian Kemper<sup>1</sup>; Tam Dang<sup>1</sup>; Andi Mainz<sup>1</sup>; Stéphane Cociancich<sup>2</sup>; Monique Royer<sup>2</sup>; Roderich D. Süssmuth<sup>1</sup>  
<sup>1</sup> Technische Universität Berlin, Berlin/DE; <sup>2</sup> CIRAD, Montpellier/FR
- P 32 **Studies toward the Synthesis of 15(14→22)abeo-8,9-Secosteroids**  
Henrik Schwarz<sup>1</sup>; Maximilian Bauer<sup>1</sup>; Philipp Heretsch<sup>1</sup>  
<sup>1</sup> Leibniz Universität Hannover, Hannover/DE
- P 33 **Pathway reconstitution in Nicotiana benthamiana reveals the first three oxidative steps of withanolide biosynthesis**  
Jian Peng<sup>1</sup>  
<sup>1</sup> Leibniz University Hannover, Hannover/DE
- P 34 **Harnessing Polyketide Synthases for Hydrogen-Driven Biotechnology: Developing a Next-Generation Platform for Value-Added Biochemicals**  
Ram Prasad Awal<sup>1</sup>; Lisa Heitmann<sup>1</sup>; Frank Hahn<sup>1</sup>  
<sup>1</sup> University of Bayreuth, Bayreuth/DE
- P 35 **Fragmenting and Combining Natural Products: Hybrid Macrolides with Uncharted Biological Activity**  
Maximilian Schick<sup>1</sup>; Golo Storch<sup>1</sup>  
<sup>1</sup> Technical University of Munich, Munich/DE
- P 36 **Mining phosphonate natural products at the DSMZ**  
Chambers Hughes<sup>1</sup>; Shu-Ning Xia<sup>1</sup>; Maximilian Knab<sup>1</sup>; Yvonne Mast<sup>2</sup>; Alina Zimmermann<sup>2</sup>; Juan-Pablo Gomez-Escribano<sup>2</sup>; Judith Boldt<sup>2</sup>; Ulrich Nübel<sup>2</sup>  
<sup>1</sup> Eberhard Karls Universität Tübingen, Tuebingen/DE; <sup>2</sup> Leibniz Institut DSMZ - Deutsche Sammlung für Mikroorganismen und Zellkulturen GmbH, Braunschweig/DE
- P 37 **Lienhwalides: Unique Tropolone-Maleidride Hybrids from Hypoxylon lienhwacheense**  
Esteban Charria-Girón<sup>1</sup>; Katharina Schmidt<sup>2</sup>; Tatiana Gorelik<sup>1</sup>; Eric Kuhnert<sup>2</sup>; Jennifer Gerke<sup>2</sup>; Russell Cox<sup>2</sup>; Marc Stadler<sup>1</sup>; Frank Surup<sup>1</sup>  
<sup>1</sup> Helmholtz Center for Infection Research, Braunschweig/DE; <sup>2</sup> Leibniz University Hannover, Hannover/DE
- P 38 **S-Adenosyl-L-homocysteine Hydrolase - From Drug Target to Biocatalyst for Nucleoside Analogue Synthesis**  
Lars-Hendrik Köppl<sup>1</sup>; Philipp Germer<sup>1</sup>; Désirée Popadić<sup>1</sup>; Raspudin Saleem-Batcha<sup>1</sup>; Jennifer Andexer<sup>1</sup>  
<sup>1</sup> Albert-Ludwigs-Universität Freiburg, Freiburg im Breisgau/DE
- P 39 **A Photoredox Approach for the total Synthesis of (-)-Strychnine**  
Rainer Wiechert<sup>1</sup>; Leander Geske<sup>1</sup>; Jasmin Hammes<sup>1</sup>; Dogus Tuncer<sup>1</sup>; Till Opatz<sup>1</sup>  
<sup>1</sup> Johannes Gutenberg University Mainz, Mainz/DE

## POSTER

- P 40 **The Minimum Information about a Tailoring Enzyme data standard/repository**  
Mitja Zdouc<sup>1</sup>; Adriano Rutz<sup>2</sup>; Daniel Probst<sup>1</sup>; Justin van der Hooft<sup>1</sup>; Kai Blin<sup>3</sup>; Marnix Medema<sup>1</sup>  
<sup>1</sup> Wageningen University, Wageningen/NL; <sup>2</sup> ETH Zürich, Zürich/CH; <sup>3</sup> Technical University of Denmark, Kongens Lyngby/DK
- P 41 **Development of the natural product Corallopyronin A to treat filarial nematode infections and AMR staphylococci infections**  
Kenneth Pfarr<sup>1</sup>; Frederic Risch<sup>1</sup>; Andrea Schiefer<sup>1</sup>; Jan Heitkötter<sup>2</sup>; Jesenko Karačić<sup>1</sup>; Stefania De Benedetti<sup>2</sup>; Miriam Grosse<sup>3</sup>; Sebastian Pfütze<sup>3</sup>; Birthe Sandargo<sup>3</sup>; Katharina Rox<sup>3</sup>; Samuel Wanji<sup>4</sup>; Silke Alt<sup>5</sup>; Thomas Hesterkamp<sup>5</sup>; Rolf Müller<sup>6</sup>; Marc Stadler<sup>3</sup>; Gabriele Bierbaum<sup>1</sup>; Tanja Schneider<sup>2</sup>; Karl G. Wagner<sup>2</sup>; Marc P. Hübner<sup>1</sup>; Achim Hoerauf<sup>1</sup>  
<sup>1</sup> University Hospital Bonn, Bonn/DE; <sup>2</sup> University of Bonn, Bonn/DE; <sup>3</sup> Helmholtz-Zentrum für Infektionsforschung, Braunschweig/DE; <sup>4</sup> University of Buea, Buea/CM; <sup>5</sup> Germany Center for Infection Research, Braunschweig/DE; <sup>6</sup> Helmholtz-Institut für Pharmazeutische Forschung Saarland (HIPS), Saarbrücken/DE
- P 42 **Homoterpene biosynthesis widespread in actinobacteria**  
Lars Dieminger<sup>1</sup>; Tatjana Reuter<sup>1</sup>; Lena Barra<sup>1</sup>  
<sup>1</sup> Universität Konstanz, Konstanz/DE
- P 43 **Concise Asymmetric Total Synthesis of (-)-Aspidospermidine**  
Christian B. W. Stark<sup>1</sup>; Charlotte R. O'Donnell<sup>1</sup>  
<sup>1</sup> Universität Hamburg, Hamburg/DE
- P 44 **atural products mediating prophage induction**  
Thomas Böttcher<sup>1</sup>  
<sup>1</sup> Universität Wien, Wien/AT
- P 45 **Megasynthetase engineering for the generation of bioactive molecules and the analysis of enzyme specificity**  
Leonard Präve<sup>1</sup>; Helge B. Bode<sup>1</sup>  
<sup>1</sup> Max-Planck-Institut für terrestrische Mikrobiologie, Marburg/DE
- P 46 **Characterization of a novel bacterial RIPP biosynthetic pathway**  
Abeer Badiab<sup>1</sup>; Krishna Patel<sup>2</sup>; Javier Santos-Aberturas<sup>3</sup>; Andrew Truman<sup>3</sup>; Brian Smith<sup>1</sup>; Jesko Köhnke<sup>2</sup>  
<sup>1</sup> University of Glasgow, Glasgow/GB; <sup>2</sup> Leibniz University Hannover, Hannover/DE; <sup>3</sup> John Innes Centre, Norwich/GB

## ORGANISER AND CONTACT

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