DECHEMA
Biotechnologie

PROGRAMME

6 – 8 September 2021 · Online Event

4th European Conference on Natural Products

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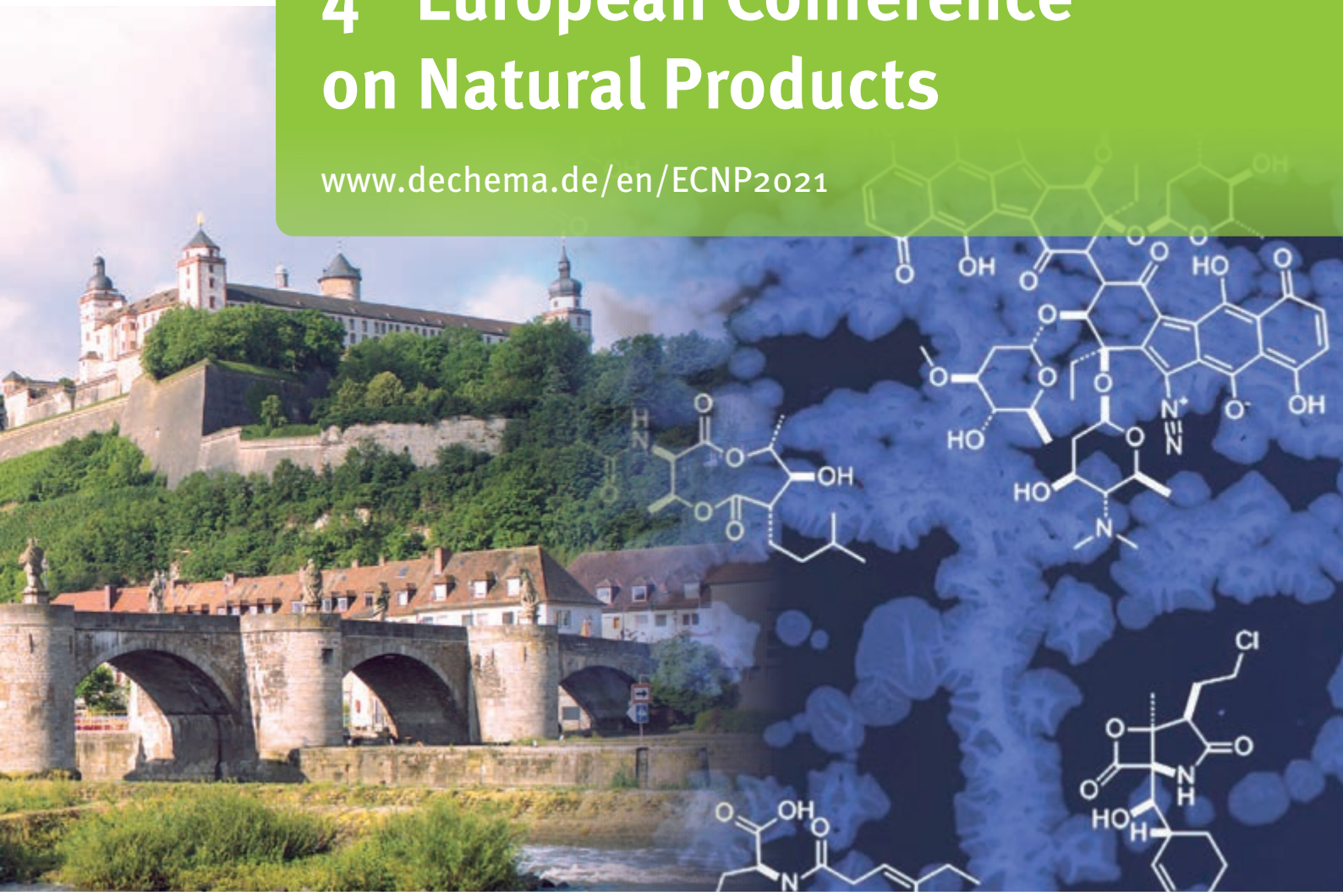

IN COOPERATION WITH

VBU Association of German Biotechnology Companies

Monday, 6 September 2021

Virtual Room 1	
9:00	**Opening**
Chair:	*Kirschning, A.*
9:05	**KEYNOTE 1** Kalesse, Markus
9:45	Short break
	Organic Synthesis
Chair:	*Bode, H.*
9:50	Tailhades
10:10	Strand
10:30	Short lecture: Delair
10:40	*Discussion*
10:55	Coffee break
	Targets and MoA / Chemical biology
Chair:	*Brötz-Oesterhelt, H.*
11:05	Brönstrup
11:25	Masschelein
11:45	Cheng, X.
12:05	Beemelmann
12:25	*Discussion*
12:40	Lunch break
	Biosynthesis / Synthetic biology
Chair:	*Dittmann, E.*
13:40	Crüsemann
14:00	Kries
14:20	Hemmerling
14:40	*Discussion*
Chair:	*Overkleeft, H.S.*
14:55	**KEYNOTE 2** Narayan, Alison
15:35	Coffee break
Chair:	*Overkleeft, H.S.*
15:45	**KEYNOTE 3** Herzon, Seth B.
16:25	Short break
	Organic Synthesis
Chair:	*Strand, D.*
16:35	Bauer
16:55	Klahn
17:15	Renata
17:35	*Discussion*
17:50	Closing
18:00	**Meet the Speakers-Session**
19:00	End of day 1

Tuesday, 7 September 2021

Virtual Room 1	
9:00	**Opening**
Chair:	*Osada, H.*
9:05	**KEYNOTE 4** Kuzuyama, Tomohisa
9:45	Short break
	Biosynthesis / Synthetic biology
Chair:	*Zhang, Y.*
9:50	Cryle
10:10	Barra
10:30	Mori
10:50	Katsuyama
11:10	*Discussion*
11:25	Coffee break
	Biosynthesis / Synthetic biology
Chair:	*Schulz, S.*
11:35	Bian
11:55	Marienhagen
12:15	Short lecture: Moncalian
12:25	*Discussion*
12:40	Lunch break
Chair:	*Wilkinson, B.*
13:40	**KEYNOTE 5** O´Connor, Sarah
14:20	Short break
	Biosynthesis / Synthetic biology
Chair:	*Wilkinson, B.*
14:30	Bozhüyük
14:50	Cox
15:10	Hubrich
15:30	Short lecture: Schwanemann
15:40	*Discussion*
15:55	Short break
	Biosynthesis / Synthetic biology
Chair:	*Weissmann, K.*
16:05	Schäberle
16:25	Zakaria
16:45	Grininger
17:05	*Discussion*
17:20	**KEYNOTE 6** Ryan, Katherine
18:00	**Meet the Speakers-Session**
19:00	End of day 2

Wednesday, 8 September 2021

Virtual Room 1	
9:00	**Opening**
	Targets and MoA / Chemical biology
Chair:	*Brönstrup, M.*
9:05	Stierlin
9:25	Niedermeyer
9:45	Guo
10:05	*Discussion*
10:20	Coffee break
Chair:	*Nay, B.*
10:30	**KEYNOTE 7** Tosin, Manuela
11:10	Short break
	Targets and MoA / Chemical biology
Chair:	*O'Connor, S.*
11:15	Mast
11:35	Alford
11:55	Hegemann
12:15	*Discussion*
12:30	Lunch break
	Targets and MoA / Chemical biology
Chair:	*Ober, D.*
13:30	Lambert
13:50	Kalinina
14:10	Köck
14:30	Stankey
14:50	*Discussion*
15:05	Short break
Chair:	*Piel, J.*
15:20	**KEYNOTE 8** Donia, Mohamed
16:00	Short break
Chair:	*Kirschning, A.*
16:15	**KEYNOTE 9** Clardy, John
16:55	Closing
17:00	End of 4th ECNP
17:00	**General assembly**
18:00	**Meet the Speakers-Session** (18:00 – 19:00)

Monday, 6. September 2021

	Virtual Room 1
	Opening & Keynote Session
	Chair: K. Schürrle[1]; [1] DECHEMA e.V., Frankfurt/D
09:00	**OPENING** A. Kirschning[1]; K. Schürrle[2]; [1] Leibniz Universität Hannover, Hannover/D; [2] DECHEMA e.V., Frankfurt/D
09:05	KEYNOTE 1 **Stereoselective Sparteine-free 1,2-Metallate Rearrangements in Natural Products Syntheses** M. Kalesse[1]; [1] Leibniz Universität Hannover, Hannover/D
09:45	Short break
	Organic Synthesis
	Chair: H. Bode[1]; [1] Max-Planck-Institut für terrestrische Mikrobiologie, Marburg/D
09:50	**Filling the Gap in the Peptide Chemistry of Arylglycines** J. Tailhades[1]; M. Cryle[1]; Y. Zhao[1]; E. Marschall[1]; [1] Monash University, Clayton/AUS
10:10	**Bio-inspired Syntheses of (–)-Asperaculin A and (–)-Penifulvin D** I. George[1]; D. Strand[1]; [1] Lund University, Lund/S
10:30	**Asymmetric Synthesis of (-)-205B Alkaloid: The Benefit of Chirality Transfer Through a Silyl Link** P. Delair[1]; S. Mazeh[1]; [1] Université Grenoble Alpes, Saint Martin d'Hères/F
10:40	**Discussion**
10:55	Coffee break
	Targets and MoA / Chemical biology
	Chair: H. Brötz-Oesterhelt[1]; [1] Eberhard Karls Universität Tübingen, Tübingen/D
11:05	**Discovery of natural product-based antiviral lead compounds: From phenotypic screens to lipid targeting mechanisms** M. Brönstrup[1]; [1] Helmholtz-Zentrum für Infektionsforschung GmbH, Braunschweig/D
11:25	**The kalimantacin antibiotics - a novel class of Staphylococcus aureus FabI inhibitors shaped by highly programmed polyketide assembly** J. Masschelein[1]; [1] KU Leuven/Flanders Institute for Biotechnology, Leuven/B
11:45	**Seeking for natural products as Cas9 modulators via high content screening** X. Cheng[1]; R. Gama-Brambila[1]; [1] Goethe-University Frankfurt am Main, Frankfurt am Main/D
12:05	**Structural Diversity and Functional Characterization of Bacterial Natural Products Inducing Morphogenesis in Marine Eukaryotes** C. Beemelmanns[1]; [1] Leibniz-Institut für Naturstoff- Forschung und Infektionsbiologie e.V. - Hans-Knöll-Institut, Jena/D
12:25	**Discussion**
12:40	Lunch break

Monday, 6. September 2021

	Virtual Room 1
	Biosynthesis / Synthetic biology
	Chair: E. Dittmann[1]; [1] Universität Potsdam, Potsdam-Golm/D
13:40	**Biosynthetic Studies on potent G protein Inhibitors from Nature** M. Crüsemann[1]; [1] University of Bonn, Bonn/D
14:00	**NRPS design guided by adenylation promiscuity** H. Kries[1]; [1] Leibniz-Institut für Naturstoff-Forschung und Infektionsbiologie - Hans-Knöll-Institut e.V., Jena/D
14:20	**A "Swiss Army Knife" Polyketide Synthase** F. Hemmerling[1]; R. Meoded[1]; A. Fraley[1]; C. Dieterich[1]; H. Minas[1]; M. Rust[1]; R. Ueoka[1]; N. Magnus[2]; B. Piechulla[2]; J. Piel[1]; [1] ETH Zürich, Zürich/CH; [2] Universität Rostock, Rostock/D
14:40	**Discussion**
	Chair: H.S. Overkleeft; Leiden University, Leiden/NL
14:55	KEYNOTE 2 **Biocatalysis and complex molecule synthesis** A. Narayan[1] [1] University of Michigan/USA
15:35	Coffee break
15:45	KEYNOTE 3 **Shining light on the dark matter of natural products: Structure and function of colibactin** S. Herzon[1]; [1] Yale University , /USA
16:25	Short break
	Organic Synthesis
	Chair: D. Strand[1]; [1]Lund University, Lund/S
16:35	**Total Synthesis and Antidiabetic Profiling of the Veramycins** A. Bauer[1]; [1] Sanofi Aventis Deutschland GmbH, Frankfurt am Main/D
16:55	**Inspired by nature´s design: Biomimetic enterobactin analogues for antimicrobial drug conjugates** P. Klahn[1]; [1] Technische Universität Braunschweig, Braunschweig/D
17:15	**Reinvigorating Chiral Pool Synthesis through P450BM3-Catalyzed C–H Oxidation** H. Renata[1]; [1] The Scripps Research Institute, Jupiter/USA
17:35	**Discussion**
17:50	**Closing** K. Schürrle[1]; [1] DECHEMA e.V., Frankfurt/D
18:00 – 19:00	**Meet the Speakers-Session** K. Schürrle[1]; [1] DECHEMA e.V., Frankfurt/D

Tuesday, 7. September 2021

	Virtual Room 1
	Opening & Keynote Session
	Chair: H. Osada[1]; [1] RIKEN, Wako-Shi, Saitama/J
09:00	**OPENING** K. Schürrle[1]; [1] DECHEMA e.V., Frankfurt/D
09:05	KEYNOTE 4 **Cyclization reactions in natural product biosynthesis** T. Kuzuyama[1]; [1] The University of Tokyo, Tokyo/J
09:45	Short break
	Biosynthesis / Synthetic biology I
	Chair: Y. Zhang[1]; [1] Shandong University, Jinan/CN
09:50	**Are condensation domains selective in NRPS-mediated biosynthesis?** M. Cryle[1]; [1] Monash University, Victoria/AUS
10:10	**NAD as a Building Block in Natural Product Biosynthesis** L. Barra[1]; T. Awakawa[1]; K. Shirai[1]; Z. Hu[1]; A. Ikuro[1]; [1] University of Tokyo, Tokyo/J
10:30	**Molecular basis for the endoperoxide formation by Fe(II)/α-KG-dependent oxygenase NvfI** T. Mori[1]; R. Zhai[1]; R. Ushimaru[1]; I. Abe[1]; [1] The University of Tokyo, Tokyo/J
10:50	**Biosynthesis of diazo group-containing natural products in actinobacteria** Y. Katsuyama[1]; [1] The University of Tokyo, Bunkyo-ku/J
11:10	**Discussion**
11:25	Coffee break
	Biosynthesis / Synthetic biology II
	Chair: S. Schulz[1]; [1] Technische Universität Braunschweig, Braunschweig/D
11:35	**Engineering and elucidation of the lipoinitiation process in nonribosomal peptide biosynthesis** X. Bian[1]; [1] Shandong University, Qingdao/CN
11:55	**Tailoring the central metabolism of microorganisms towards the synthesis of (plant) polyketides** J. Marienhagen[1]; [1] Forschungszentrum Jülich GmbH, Jülich/D
12:15	**Biological, biochemical and structural characterization of PfaB: a polyunsaturated fatty acid acyltransferase** G. Moncalian[1]; [1] University of Cantabria, Santander/E
12:25	**Discussion**
12:40	Lunch break

Tuesday, 7. September 2021

	Virtual Room 1
	Biosynthesis / Synthetic biology III
	Chair: B. Wilkinson[1]; [1] John Innes Centre, Norwich/UK
13:40	KEYNOTE 5 **Harnessing the chemistry of plant natural product biosynthesis** S. O'Connor[1]; [1] Max Planck Institute for Chemical Ecology, Jena/D
14:20	Short break
14:30	**Evolutionary Inspired De-Novo Assembly of Artificial NRPSs and NRPS/PKS Hybrids** K. Bozhüyük[1]; [1] Max-Planck-Institut für terrestrische Mikrobiologie, Marburg/D
14:50	**Understanding and Engineering Tropolone Sesquiterpenoids** R. Cox[1]; [1] Universität Hannover, Hannover/D
15:10	**Diverse side-chain N-lipidations define the selidamide family of proteusin peptides** F. Hubrich[1]; N. Bösch[1]; S. Robinson[1]; A. Vagstad[1]; J. Piel[1]; [1] ETH Zürich, Zurich/CH
15:30	**Heterologous benzoic acid-derived polyketide biosynthesis with Pseudomonas** T. Schwanemann[1]; M. Cardenas Espinosa[2]; J. Gätgens[1]; C. Eberlein[2]; H. Heipieper[2]; N. Wierckx[1]; [1] Forschungszentrum Jülich GmbH, Jülich/D; [2] Helmholtz-Centre for Environmental Research GmbH - UFZ, Leipzig/D
15:40	**Discussion**
15:55	Short break
	Biosynthesis / Synthetic biology IV
	Chair: K. Weissman[1]; [1] Lorraine University, Vandoeuvre-Les-Nancy/F
16:05	**Darobactin Derivatization – Expanding the Class of Bicyclic BamA Inhibitors** T. Schäberle[1]; N. Böhringer[1]; Z. Wuisan[1]; I. Kresna[1]; J. Kramer[1]; Y. Liu[1]; U. Mettal[1]; [1] Justus-Liebig-University Giessen/D
16:25	**Unexpected insights into pyrrolizidine alkaloid biosynthesis after CRISPR-Cas9-mediated manipulation of individual genes** M. Mohamed[1]; B. Milewski[1]; D. Ober[1]; T. Stegemann[1]; [1] Christian-Albrechts-Universität zu Kiel, Kiel/D
16:45	**Fatty acid synthases (FASs) and domains thereof for the synthesis of new-to-nature compounds** M. Grininger[1]; [1] Goethe Universität Frankfurt, Frankfurt am Main/D
17:05	**Discussion**
17:20	KEYNOTE 6 **Enzymes from Bacterial Natural Products Biosynthesis** K. Ryan[1], [1] University of British Columbia, Vancouver/CAN
18:00 – 19:00	**Meet the Speakers-Session** K. Schürrle[1]; [1] DECHEMA e.V., Frankfurt/D

Wednesday, 8. September 2021

Virtual Room 1

Targets and MoA / Chemical biology I

Chair: M. Brönstrup[1]; [1] Helmholtz-Zentrum für Infektionsforschung GmbH, Braunschweig/D

09:00 **OPENING**
K. Schürrle[1]; [1] DECHEMA e.V., Frankfurt/D

09:05 **Metabolomic approach using LC-MS/MS analysis and molecular networking to follow up bioactive constituents of Calophyllum inophyllum nuts (Tamanu) during drying process**
E. Stierlin[1]; R. Ho[1]; S. Greff[2]; G. Herbette[3]; P. Raharivelomanana[1]; [1] EIO, UMR 241, UPF, Faa'a/FP; [2] IMBE CNRS IRD, AMU-AU, Marseille/F; [3] AMU, CNRS, Centrale Marseille, FSCM, Spectropole, Marseille/F

09:25 **Hunting down the Eagle Killer: A novel cyanobacterial neurotoxin causes Vacuolar Myelinopathy**
T. Niedermeyer[1]; [1] Martin-Luther-Universität Halle-Wittenberg, Halle (Saale)/D

09:45 **Microbiome Associated with Fungus-growing Termite – A hidden Treasure Trove for Drug discovery**
H. Guo[1]; [1] Leibniz Institute for Natural Product Research and Infection Biology e.V. Hans-Knöll-Institute, Jena/D

10:05 **Discussion**

10:20 Coffee break

Chair: B. Nay[1]; [1] Ecole Polytechnique, Palaiseau/F

10:30 **KEYNOTE 7**
Adventures in chemical probing of natural product biosynthesis
M. Tosin[1]; [1] University of Warwick, Coventry/UK

11:10 Short break

Targets and MoA / Chemical biology II

Chair: S. O'Connor[1]; [1] Max Planck Institute for Chemical Ecology, Jena/D

11:15 **SARP-driven activation of antibiotic gene clusters**
Y. Mast[1]; [1] Leibniz Institut DSMZ - Deutsche Sammlung für Mikroorganismen und Zellkulturen GmbH, Braunschweig/D

11:35 **A Heterologous Expression Platform for the Production and Diversification of Lantipeptide Antibiotics**
A. Alford[1]; E. Vikeli[1]; D. Widdick[1]; B. Wilkinson[1]; [1] John Innes Centre, Norwich/UK

11:55 **The Biological Origin of the Morphogenic Lanthipeptide SapT**
J. Hegemann[1]; R. Sarksian[2]; W. van der Donk[2]; [1] Technische Univeristät Berlin, Berlin/D; [2] University of Illinois at Urbana-Champaign, Urbana/USA

12:15 **Discussion**

12:30 Lunch break

Wednesday, 8. September 2021

	Virtual Room 1
	Targets and MoA / Chemical biology III
	Chair: D. Ober[1]; [1] Christian-Albrechts-Universität zu Kiel, Kiel/D
13:30	**Semi-synthetic functionalization and manipulation of the eukaryotic actin cytoskeleton by cytochalasins** W. Chongqing[1]; C. Lambert[2]; A. Kishore[1]; C. Zeilinger[1]; K. Rottner[2]; T. Stradal[2]; M. Stadler[3]; E. Skellam[1]; R. Cox[1]; [1] Leibniz University Hannover, Hannover /D; [2] Technische Universität Braunschweig, Helmholtz-Centre for Infection Research, Braunschweig/D; [3] Helmholtz-Centre for Infection Research, Braunschweig/D
13:50	**Ergochrome gene cluster and polyketide synthase PKS7 responsible for the production of novel secondary metabolites in plant pathogenic fungus Claviceps purpurea** S. Kalinina[1]; [1] Westfälische Wilhelms-Universität Münster, Münster/D
14:10	**Model-free Approach for the Configurational Analysis of Natural Products using NMR data** M. Köck[1]; S. Immel[2]; M. Reggelin[2]; [1] Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung, Bremerhaven/D; [2] TU Darmstadt, /D
14:30	**New Tools For Targeted Cloning And Over Expression Of Biosynthetic Gene Clusters** R. Stankey[1]; D. Johnson[1]; R. Montaser[2]; N. Kelleher[2]; M. Sandoval-Powers[3]; H. Sletta[4]; T. Ellingsen[4]; A. Wentzel[4]; M. Liles[3]; D. Mead[1]; [1] Varigen Biosciences, Madison, Wisconsin/USA; [2] Northwestern University, Evanston, Illinois/USA; [3] Auburn University, Auburn, Alabama/USA; [4] SINTEF Industry, Trondheim/N
14:50	**Discussion**
15:05	Coffee break
	Chair: J. Piel, ETH Zürich, Zürich/CH
15:20	KEYNOTE 8 **Title tbd.** M. Donia[1]; [1] Princeton University, /USA
16:00	Short break
16:15	KEYNOTE 9 **Lipid communication codes in the human gut microbiome** J. Clardy[1]; [1] Harvard Medical School, Boston/USA
16:55	**Closing** A. Kirschning[1]; [1] Leibniz Universität Hannover, Hannover/D
17:00	**General Assembly**
18:00 – 19:00	**Meet the Speakers-Session** K. Schürrle[1]; [1] DECHEMA e.V., Frankfurt/D

P1.01 **Towards the Synthesis of Preussochromone E and F**
M. Beller[1]; U. Koert[1]; E. Kerste[1]; [1] Philipps Universität Marburg, Marburg/D

P1.02 **Synthesis of the ABCD ring system of the tremorgenic janthitrems from Penicillium janthinellum**
M. Fresia[1]; T. Lindel[1]; [1] TU Braunschweig, Braunschweig/D

P1.03 **Total Synthesis of Ageladine A and Photoageladine**
C. Tolle[1]; T. Lindel[1]; [1] TU Braunschweig, Braunschweig/D

P1.04 **Enantioselective Synthesis of Cadinol Sesquiterpenes from the African Frog Hyperolius cinnamomeoventris**
A. Ladwig[1]; S. Schulz[1]; [1] TU Braunschweig, Braunschweig/D

P2.01 **Investigation of the H6H-cataltyzed oxidation reactions using substrate analogues**
R. Ushimaru[1]; R. Chen[1]; X. Liu[1]; P. Fan[1]; H. Liu[1]; [1] The University of Texas at Austin, Austin/USA

P2.02 **Aziridine Formation by a Fe(II)/α-ketoglutarate Dependent Oxygenase and 2-aminoisobutyrate Biosynthesis in Fungi**
R. Bunno[1]; T. Awakawa[1]; T. Mori[1]; I. Abe[1]; [1] The University of Tokyo, Tokyo/J

P2.03 **One Polyketide Synthase, Two Distinct Products: Trans-Acting Enzyme-Controlled Product Divergence in Calbistrin Biosynthesis**
H. Tao[1]; T. Mori[1]; X. Wei[2]; Y. Matsuda[2]; I. Abe[1]; [1] The University of Tokyo, Tokyo/J; [2] City University of Hong Kong, Hong Kong/CN

P2.04 **Investigation on the Biosynthetic Pathway of Meroterpenoids from Marine-derived Endophytic *Fungus Talaromyces* sp.**
X. Li[1]; T. Awakawa[1]; I. Abe[1]; [1] The University of Tokyo, Tokyo/J

P2.06 **Elucidating Quassinoid Biosynthesis in Plants Reveals Conserved Early Steps in Limonoid and Quassinoid Pathways**
L. Chuang[1]; D. Biedermann[1]; J. Franke[1]; [1] Leibniz Universität Hannover, Hannover/D

P2.07 **Unraveling mechanistic similarities of sesquiterpene cyclases PenA, Omp6/7, and BcBOT2 by a non-natural FPP ether derivative**
V. Harms[1]; V. Ravkina[1]; A. Kirschning[1]; [1] Leibniz University Hannover, Hannover/D

P2.08 **A chemoenzymatic approach to evaluate the cyclisation of glycopeptide antibiotic precursor peptides**
Y. Zhao[1]; [1] Monash University, Melbourne/AUS

P2.09 **Enzymatic Synthesis of Pharmaceutically Active Peptides**
A. Dawood[1]; [1] Hamburg University of Technology, Hamburg/D

P2.10 **Investigations on RIESKE-Oxygenases JerP and JerL for Application as Biocatalyst in Chemoenzymatic Total Synthesis**
F. Guth[1]; F. Hahn[1]; [1] Universität Bayreuth, Bayreuth/D

P2.11 **The Landscape of Recombination Events that Create Nonribosomal Peptide Diversity**
M. Baunach[1]; S. Chowdhury[2]; P. Stallforth[2]; E. Dittmann[3]; [1] Universität Potsdam, Potsdam/D; [2] Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute , Jena/D; [3] Universität Potsdam, Jena/D

P2.13 **Veramycins: One polyketide pathway, many bioactive molecules**
N. Böhringer[1]; D. Dardić[2]; L. Padva[2]; J. Pohl[2]; S. Sommer[2]; M. Patras[2]; A. Bauer[3]; T. Schäberle[2]; [1] Justus-Liebig-Universität Gießen, Gießen/D; [2] Fraunhofer Institute for Molecular Biology and Applied Ecology (IME), Giessen/D; [3] Sanofi-Aventis Deutschland GmbH, Frankfurt/D

P2.14 **Regiospecific xanthone prenyltransferases from Hypericum perforatum**
H. Mohamed[1]; [1] Technische Universität Braunschweig, Braunschweig/D

P2.15 **Establishment of the O-Methyltransferase JerF from Jerangolid biosynthesis for the use in enantioselective chemoenzymatic synthesis of kavalactones**
S. Rydzek[1]; F. Hahn[1]; [1] University of Bayreuth, Bayreuth/D

P3.01 **Molecular targets of three plants of the Polynesian cosmetopoeia in dermal papilla cells: Bioactivity-based molecular network approach**
K. Hughes[1]; R. Ho[1]; S. Greff[2]; G. Herbette[3]; C. Chazaud[4]; E. Filaire[5]; E. Ranouille[6]; J. Berthon[6]; P. Raharivelomanana[1]; [1] EIO, UMR 241, UPF, Faa'a/FP; [2] IMBE, CNRS, AMU-AU, IRD , Marseille/F; [3] AMU, CNRS, Centrale Marseille, FSCM, Spectropole, Marseille/F; [4] GReD Institute, UCA, CNRS, INSERM, Clermont-Ferrand/F; [5] Greentech / UCA, UMR 1019 INRA-UcA, UNH ECREIN Team, Saint-Beauzire / Clermont-Ferrand/F; [6] Greentech, Saint-Beauzire/F

P3.02 **Cystobactamids efficiently kill multi-drug resistant uropathogenic Escherichia coli and cystobactamid resistance is mediated through QseBC-regulated LPS modifications**
K. Cirnski[1]; T. Risch[1]; N. Zaburannyi[1]; D. Kohnhäuser[2]; G. Testolin[2]; D. Hörömpöli[3]; A. Jousset[4]; L. Knegendorf[5]; P. Chhatwal[5]; M. Rohde[2]; M. Loose[6]; T. Chakraborty[6]; A. Vassort[7]; L. Bouchina[7]; F. Wagenlehner[6]; M. Rima[4]; H. Brötz-Österhelt[3]; M. Bischoff[8]; D. Schlüter[5]; T. Naas[4]; M. Müsken[2]; M. Brönstrup[2]; J. Herrmann[1]; R. Müller[1]; [1] Helmholtz Institute for Pharmaceutical Research Saarland (HIPS), Saarbrücken/D; [2] Helmholtz-Zentrum für Infektionsforschung (HZI), Braunschweig/D; [3] University of Tübingen, Tübingen/D; [4] Institut Pasteur, Assistance Publique Hôpitaux de Paris, Université Paris-Sud, Paris, Paris/F; [5] Hannover Medical School, Hannover/D; [6] Justus-Liebig University of Giessen, Giessen/D; [7] Evotec ID, Lyon/F; [8] Saarland University, Homburg/D

P5.01 **LC-MS based semi-polar metabolite profiling of different Hydrangea macrophylla ssp. serrata cultivars with particular attention to phenyldihydroisocoumarins**
J. Wellmann[1]; C. Tränkner[2]; N. Dostert[3]; B. Zirpel[4]; E. Schwarze[4]; M. Stürtz[4]; S. Hillebrand[4]; J. Ley[4]; P. Winterhalter[1]; [1] TU Braunschweig, Braunschweig/D; [2] FH Erfurt, Erfurt/D; [3] botconsult, Heiligenberg/D; [4] Symrise AG, Holzminden/D

P5.02 **Discovery and elucidation of the biosynthetic pathways of non-ribosomal peptides produced by Pseudomonas aeruginosa**
C. AUBRY[1]; A. DESSEN[2]; I. ATTREE[3]; Y. LI[1]; [1] Unit Molecules of Communication and Adaptation of Microorganisms (MCAM), Muséum National d'Histoire Naturelle, CNRS, UMR 7245, Paris/F; [2] University Grenoble Alpes, CNRS, CEA, Institute of Structural Biology (IBS), Grenoble/F; [3] CNRS-ERL5261, INSERM, U1036, CEA, Bacterial Pathogenesis and Cellular Responses, Biosciences and Biotechnology Institute of Grenoble, University Grenoble Alpes, Grenoble/F

P5.04 **A new approach to modulate the bioactivity of phenylspirodrimanes from Stachybotrys chartarum by semi-synthesis**
K. Steinert[1]; N. Berg[1]; H. Humpf[1]; S. Kalinina[1]; [1] Westfälische Wilhelms-Universität Münster, Münster/D

P5.05 **Secondary metabolite discovery in Streptomyces griseocromogenes is influenced by culture systems and sample preparation**
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P5.06 **Icariin ameliorates metabolic syndrome-induced benign prostatic hyperplasia in rats**
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P5.07 **Optimization of Darobactin A Heterologous Expression**
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P5.08 **Antifungal lanthipeptides involved in mutualistic plant-microbe interactions**
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P5.09 **Flensburg strain collection of marine fungi**
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P5.10 **The Red Sea Fungus Aspergillus falconensis: A Model Organism for Secondary Metabolite Production**
D. Hassouna El-Kashef[1]; F. S. Youssef[2]; R. Hartmann[3]; T. Knedel[4]; C. Janiak[4]; I. Reimche[5]; N. Teusch[5]; W. Müller[6]; W. Lin[7]; M. Frank[4]; Z. Liu[4]; P. Proksch[8]; [1] Heinrich-heine University Düsseldorf/D / Minia University, Minia/EGY; [2] Heinrich-heine University/ Ain Shams University, Düsseldorf, Germany/ Cairo, Egypt/D; [3] Forschungszentrum Jülich GmbH, Jülich/D; [4] Heinrich-heine University, Düsseldorf/D; [5] University of Osnabrück, Osnabrück/D; [6] Johannes Gutenberg University Mainz, Mainz/D; [7] Peking University, Beijing /CN; [8] Heinrich-heine University/ China Three Gorges University, Düsseldorf, Germany/ Yichang, China/D

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