

PROGRAM

Friday, 25 October 2024		
8.00	Opening	
	<i>Session 1 (Chair: Yuta Tsunematsu)</i>	
8.10	L01: Tobias Gulder, HIPS Saarland	(Bio-)Synthesis of Furanolides
8.30	L02: Fumitaka Kudo, Tokyo Institute of Technology	Biosynthetic Studies on Macrolactam Antibiotics
8.50	L03: Robin Teufel, University of Basel	Biosynthesis and Bioengineering of Bacterial Aromatic Polyketides
9.10	L04: Yohei Morishita, Tohoku University	Biosynthesis of a protein transport inhibitor, brefeldin A
9.30	L05: Russell Cox, University of Hannover	Synthesis from Garbage - Making Molecules the Fungal Way
9.50	<i>Coffee</i>	
	<i>Session 2 (Chair: Stephanie Grond)</i>	
10.30	L06: Toshiyuki Wakimoto, Hokkaido University	Enzymatic Transformation of Icadamide C to Theopederin K in a Marine Sponge Symbiont
10.50	L07: Pierre Stallforth, HKI Jena	Natural Products From Interacting Microorganisms and Ancient Microbiomes
11.10	L08: Hiroyasu Onaka, Gakushuin University	Unnatural Thiopeptide Production using Lactazole, a RIPP Biosynthetic Machinery
11.30	L09: Till Schäberle, University of Gießen	RiPPs Derivatization – Approaches to Generate New Bicyclic BamA Inhibitors for Drug Development
11.50	L10: Keishi Ishida, Hans Knöll Institute Jena	An Enzymatic Prodrug-Like Route to Thio and Selenoamides
12.10	L11: Dan Hu, Jinan University of Guangzhou	An Unusual Enzymatic Fusion Pattern and an Unprecedented C-C Bond Cleavage in the Biosynthesis of Enfumafungin-type Antibiotic
12.30	<i>Lunch</i>	
	<i>Session 3 (Chair: Takahiro Mori)</i>	
14.00	L12: Christine Beemelmans, HIPS Saarland	NRPS and PKS-based biosynthetic pathways and novel chemistry of symbiotic Actinomycetota
14.20	L13: Takeshi Tsunoda, Hokkaido University	Biosynthetic Studies of Unnatural Peptides
14.40	L14: Max Crüsemann, University of Bonn	Nitration of a ribosomal pentapeptide generates a noncanonical precursor for nonribosomal peptide synthesis
15.00	L15: Tomohisa Kuzuyama, University of Tokyo	Discovery of Type II Polyketide Synthase-like Enzymes for Cispentacin Biosynthesis

15.20	L16: Roderich Süßmuth, TU Berlin	Albicidin, a Highly Potent Peptide Antibiotic - Synthesis, Mode-of-action and Resistance
15.40	L17: Taro Ozaki, Tohoku University	Exploring the Functional Diversity of Duf3328 Proteins in the Biosynthesis of Fungal Natural Products
16.00	<i>Coffee</i>	
	<i>Session 4 (Chair: Jakob Franke)</i>	
16.40	L18: Kazuo Shin-ya, AIST	Production of Cannabigerolic Acid in a <i>Streptomyces</i> Host
17.00	L19: Philipp Heretsch, University of Hannover	Radical, Polar, or Radical-Polar Crossover?
17.20	L20: Yohei Katsuyama, University of Tokyo	Diversity of Diazo Group Biosynthesis in Actinobacteria
17.40	L21: Martin Grininger, University of Frankfurt	Engineering Polyketide Synthases (PKSs) for the Production of New-to-nature Compounds
19.30	<i>Dinner</i>	

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Saturday, 26 October 2024		
	<i>Session 5 (Chair: Aya Yoshimura)</i>	
8.00	L22: Jeroen Dickschat, University of Bonn	Break – Dance Mechanisms in the Biosynthesis of Non-Canonical Sesquiterpenes
8.20	L23: Takahiro Mori, University of Tokyo	Structure-function Analysis of a Novel Sulfonamide Synthase in the Biosynthesis of Altemicidin
8.40	L24: Jakob Franke, University of Hannover	Sequence Mining in Plants Towards Noncanonical Oxidosqualene Cyclases
9.00	L25: Yuta Tsunematsu, Nagoya University	Synthetic Biology of Natural Products for Drug Discovery
9.20	L26: Jörn Piel, ETH Zürich	Complex RiPPs from Well-Known Bacteria
9.40	L27: Yasushi Ogasawara, Hokkaido University	Biosynthetic Studies of Three-Membered Ring Containing Natural Products
10.00	<i>Group Picture</i>	
10.10	<i>Coffee</i>	
	<i>Session 6 (Chair: Tobias Gulder)</i>	
10.40	L28: Hiroki Oguri, University of Tokyo	Biogenetically Inspired Syntheses of Diverse Alkaloidal Scaffolds through Activation of Dihydropyridines
11.00	L29: Stephanie Grond, University of Tübingen	New Antibacterial Ideas from the Human Nose – Lugdunin and Epifadin deliver new structural Motifs
11.20	L30: Shunji Takahashi, RIKEN CSRS	Iron – Sulfur Protein Catalyzed [4+2] Cycloadditions in Verticilactam Biosynthesis
11.40	L31: Georg Pohnert, University of Jena	Femtomolar Amounts of a Peptide Pheromone are Sufficient to Induce Sexuality in Diatoms
12.00	L32: Aya Yoshimura, Hokkaido University	Unlocking Silent Natural Products through Membrane Vesicles-Mediated Bacterial Communication
12.20	<i>Lunch</i>	
	<i>Session 7 (Chair: Taro Ozaki)</i>	
14.00	L33: Yuki Goto, Kyoto University	In Vitro Engineered Biosynthesis for Designer RiPP Analogs
14.20	L34: Eric Helfrich, University of Frankfurt	Expanding the Biosynthetic Space of Ribosomally Synthesized and Post-Translationally Modified Peptides
14.40	L35: Chitose Maruyama, Fukui Prefectural University	Biosynthesis of Streptothricin-related Compounds

15.00	L36: Helge Bode, MPI Marburg	How Natural Products from Bacterial Symbionts Affect the Development of their Nematode Host
15.20	L37: Yoshitaka Moriwaki, Institute of Science Tokyo	Elucidation of enzymatic reaction mechanisms using model structures and their substrates
15.40	Closing Remarks	