

2024 Chinese-Japanese Symposium on Natural Product Biosynthesis

Program and Abstracts

25-27 November 2024, Guangzhou, China

Organizers:

Jinan University

Guangdong Association for the Promotion of

Biomedicine and Health

**International Cooperative Laboratory of Traditional
Chinese Medicine Modernization and Innovative Drug
Development of Ministry of Education of China**

Overall Meeting Schedule

Time Date	9:00-12:00	12:00-14:00	14:00-18:00	18:30-21:00
November 25 th	Registration & check in			Dinner (Floor 5 V10)
November 26 th	Opening Remarks & Thematic reports (Floor 7 Room 2)	Lunch (Floor 2 Western Restaurant)	Thematic reports (Floor 7 Room 2)	Dinner (Floor 7 Room15)
November 27 th	Visit Jinan University (A bus was taken from the hotel to campus at 9:00)	Departure		


Meeting Schedule of November 26

Nov. 26 th	Opening Remarks	Chair
9:00-9:30	Prof. Ronghua Zhang (Jinan University) Prof. Xinsheng Yao (Jinan University) Prof. Ikuro Abe (The University of Tokyo)	Prof. Hao Gao (Jinan University)
9:30-10:00 Group Photo、 Coffee Break		
10:00-10:20	Unnatural thiopeptide production using lactazole, a RIPP biosynthetic machinery Prof. Hiroyasu Onaka (Gakushuin University)	Prof. Ikuro Abe (The University of Tokyo)
10:20-10:40	Characterization of an α-ketoglutarate-dependent oxygenase converting 2-(2-phenylethyl) chromones into 2-styrylchromones in agarwood Prof. Shepo Shi (Beijing University of Chinese Medicine)	
10:40-11:00	β-NAD as a building block in natural product biosynthesis Prof. Takayoshi Awakawa (RIKEN)	
11:00-11:20	Biocatalytic synthesis of chiral drugs and (pseudo)	Prof. Yuewei Guo (Shanghai University)

	natural products Prof. Bin Qin (Shenyang Pharmaceutical University)	
11:20-11:40	Global genome mining-guided discovery of unexploited natural products in fungi Prof. Yudai Matsuda (City University of Hong Kong)	
11:40-12:00	Biosynthesis of fungal emfumafungin-type triterpenoid antibiotics Prof. Dan Hu (Jinan University)	
12:00-14:00 Lunch (Hotel 2nd Floor, buffet)		
14:00-14:20	Chemoenzymatic synthesis of cyclic peptides by non-ribosomal peptide cyclases Prof. Toshiyuki Wakimoto (Hokkaido University)	
14:20-14:40	Discovery and biosynthesis of novel natural products from the endophytic fungi Prof. Xiao-Long Yang (Anhui University of Chinese Medicine)	Prof. Hiroyasu Onaka (Gakushuin University)
14:40-15:00	X-ray crystallographic analysis of MurL: A novel peptide epimerase involved in peptidoglycan biosynthesis Prof. Yu Nakashima (University of Toyama)	
15:00-15:20	Discovering enzymes that catalyze cyclization reactions for natural product biosynthesis Prof. Hui Tao (Wuhan University)	Prof. Song You (Shenyang Pharmaceutical University)
15:20-15:40	Molecular basis for the diversification of lincosamide biosynthesis by pyridoxal phosphate-dependent enzymes Prof. Takahiro Mori (The University of Tokyo)	
15:40-16:00 Coffee Break		
16:00-16:20	Plug-and-play construction of hybrid PKS pathways Prof. Lihan Zhang (Westlake University)	Prof.
16:20-16:40	Analysis of terpene synthase from giant virus Prof. Takaaki Mitsuhashi (Institute for Molecular Science)	Toshiyuki Wakimoto (Hokkaido University)
16:40-17:00	Biochemical properties of a novel cold-adapted GH19 chitinase with three chitin-binding domains from <i>Chitinilyticum aquatile</i> CSC-1 and its potential in biocontrol of plant pathogenic fungi	

	Prof. Dengfeng Yang (Guangxi Academy of Marine Sciences Guangxi Academy of Sciences)	Prof. Fei HE (Southern Medical University)
17:00-17:20	Identifying Sulfur/Nitrogen-containing natural products from marine fungi and their biosynthesis Prof. Linghong Meng (Institute of Oceanology, Chinese Academy of Sciences)	
17:20-18:00 Closing Remarks		
18:30-21:00 Dinner		

Abstracts & Resumes

 <p>Prof. Xinsheng Yao Jinan University, Guangzhou, China tyaoxs@jnu.edu.cn</p>	<p>Prof. Xinsheng Yao, is an academician of the Chinese Academy of Engineering, also a member of the Division of Academic Affairs at both the Chinese Academy of Medicine and the Chinese Academy of Chinese Medicine. He serves as the founding director of Institute of Traditional Chinese Medicine & Natural Products of Jinan University and the honorary dean of the Pharmacy College at Jinan University. With nearly seven decades dedicated to pharmaceutical education, he has mentored over 120 PhD students, published over 680 research articles. Additionally, he has filed 131 patent applications resulting in 117 granted patents; developed four new drugs; received nine national and provincial/ministerial-level scientific research achievement awards; and was honored with the Special Contribution Award from the Chinese Pharmaceutical Association.</p>
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