

**2023 The 1<sup>st</sup> Taiwan-Japan Bilateral Symposium  
on Natural Products Biosynthesis**  
Genomics Research Center, Academia Sinica  
December 25, 2023

**December 25 (Monday)**

**09:00 - 09:10      Opening Remarks: *Tsung-Lin Li* 李宗璘**

**Chairs: *Tsung-Lin Li* 李宗璘, *Hiroyasu Onaka* 尾仲宏康**

**Session 1**

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| 09:10 - 09:35 | <b><i>Ikuro Abe</i> 阿部郁朗</b><br><i>The University of Tokyo</i><br>Unusual enzyme reactions in natural product biosynthesis                          |
| 09:35 - 10:00 | <b><i>Hsiao-Ching Lin</i> 林曉青</b><br><i>Academia Sinica</i><br>Exploration of biosynthetic enzymes for the synthesis of isoprenoid natural products |
| 10:00 - 10:25 | <b><i>Yasushi Ogasawara</i> 小笠原泰志</b><br><i>Hokkaido University</i><br>Novel enzymes for natural product biosynthesis                               |
| 10:25 - 10:45 | <b><i>Coffee Break &amp; Group Photo</i></b>  |

**Session 2**

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| 10:45 - 11:10 | <b><i>Hiroyasu Onaka</i> 尾仲宏康</b><br><i>Gakushuin University</i><br>Unnatural thiopeptide production using by RPPs biosynthetic machinery        |
| 11:10 - 11:35 | <b><i>Chung-Han Chu</i> 朱忠瀚</b><br><i>National Taiwan University</i><br>A boron dependent antibiotic derived from a calcium dependent antibiotic |
| 11:35 - 12:00 | <b><i>Taro Shiraishi</i> 白石太郎</b><br><i>The University of Tokyo</i><br>Biosynthetic study on the nucleoside antibiotic amipurimycin              |
| 12:00 - 13:30 | <b><i>Lunch (by invitation)</i></b>  |

### **Session 3**

13:40 - 14:05	<b>Hsin-Yang Chang 張欣陽</b> <i>National Yang Ming Chiao Tung University</i> Biosynthesis of vitroprocines by $\alpha$ -oxoamine synthase and oxidoreductase identified from marine <i>Vibrio</i> sp. QWI-06
14:05 - 14:30	<b>Kenichi Matsuda 松田研一</b> <i>Hokkaido University</i> A new family of peptide cyclases enabled streamlined chemoenzymatic synthesis of cyclic peptides
14:30 - 14:55	<b>Wen-Tai Li 李文泰</b> <i>National Research Institute of Chinese Medicine</i> Synthesis of naturally occurring heterotricyclic compounds
14:55 - 15:10	<b>Coffee Break</b>

### **Session 4**

15:10 - 15:35	<b>Chitose Maruyama 丸山千登勢</b> <i>Fukui Prefectural University</i> Amide-bond forming enzymes found in the biosynthesis of streptothrinic-related compounds
15:35 - 16:00	<b>Shotaro Hoshino 星野翔太郎</b> <i>Gakushuin University</i> Actinomycetes expand the diversity of organoarsenic natural products
16:00 - 16:25	<b>Chin-Yuan Chang 張晉源</b> <i>National Yang Ming Chiao Tung University</i> FAD-dependent oxidoreductase CpaO involved in the ring formation in cyclopiazonic acid biosynthesis
16:25 - 16:50	<b>Tsung-Lin Li 李宗璘</b> <i>Academia Sinica</i> N-formimidoylation/-iminoacetylation modification in aminoglycosides requires FAD-dependent and ligand-protein NOS bridge dual chemistry