

China-Japan Joint Seminar on Synthetic Biology and Biomass Bioconversion

On July 4th, the China-Japan Joint Seminar on Synthetic Biology and Biomass Bioconversion was held at Shanghai Jiao Tong University. This seminar was organized with the purpose of deepening research exchanges between Professor Hasunuma's lab at Kobe University and Professor Zhao's lab at Shanghai Jiao Tong University. The seminar was conducted in two sessions. In the first session (13:00-14:00), nine students from Shanghai Jiao Tong University delivered poster presentations, followed by active Q&A sessions involving participants from both laboratories. The subsequent second session (14:00-17:00) featured oral presentations by eight students and faculty members from both laboratories, providing detailed reports on their latest research findings and methodologies.

The sessions were jointly moderated by faculty members and students from both laboratories, fostering academic discussions in a congenial atmosphere. After the sessions, poster awards, best presentation awards and excellent presentation awards were given to students.

The faculty presentations covered not only experimental results but also discussed broader perspectives on how bio-manufacturing can transform the world and prospects in the field. This enabled participants to gain insights not only into technical knowledge but also perspectives toward the social implementation of research.

This seminar strengthened the academic connections between both laboratories and laid the groundwork for deeper research collaboration in the future.

Seminar schedule	
13:00-14:00	Poster discussion
14:00-14:30	Presentation 1: “Engineering biology for biorefinery” Prof. Tomohisa Hasunuma
14:30-14:55	Presentation 2: “Engineering of amino acid deaminase for alpha-keto acid production” Prof. Ryo Nasuno
14:55-15:05	Break
15:05-15:30	Presentation 3: “Production of useful chemicals by <i>Saccharomyces cerevisiae</i> using the xylose

	oxidative pathway” Prof. Takahiro Bamba
15:30-15:45	Presentation 4: “The Role of two (P)ppGpp synthetase, spoT1 and spoT2, on ppGpp production, growth regulation and PHB production in <i>Cupriavidus necator</i> H16” Mr. Naoki Abekawa, PhD student
15:45-16:00	Presentation 5: “Development of a multi-stress resistant yeast, <i>Issatchenkia orientalis</i> , displaying cellulases on its cell surface” Mr. Yoshiaki Kawahara, Graduate student
16:00-16:15	Presentation 6: “Metabolic engineering of purple non-sulfur bacteria for PHBH production from wastewater” Ms. Kako Miura, Graduate student
16:15-16:30	Presentation 7: “Establishment of the biosynthetic platform for orsellinic acid-derived meroterpenoids in <i>Escherichia coli</i> ” Mr. Itsuki Tomita, PhD student
16:30-16:45	Presentation 8: “Efficient ergothioneine production by nonconventional yeasts” Ms. Yuzhen Li, Graduate student
16:45-17:00	Presentation 9: “Electron injection of light-harvesting nanomaterials into photosynthetic chain towards CO ₂ -to-PHB conversion” Mr. Ding Ding, PhD student



(Meeting room and Faculty Center at Shanghai Jiao Tong University)