



JAPAN-THAILAND DUCKWEED & PHAM SYMPOSIUM TOWARD THAILAND BCG ECONOMY

Conclusion of the Be-HoBiD project 2021-2026



31 August–1 September 2026



**Maruay Garden Hotel,
Bangkok**

31 August 2026

**11:00-12:00 Registration
12:00-13:00 Lunch
13:00-13:20 Open Ceremony
13:20-17:00 Invited Speaker
& Oral Presentation**

1 September 2026

**09:00-15:40 Invited Speaker
& Oral Presentation
15:40-16:20 Panel Discussion
~~16:40~~-16:30 Closing Ceremony
16:20**

Free Registration



**Register by
24 August 2026**



International Conference

Japan-Thailand Duckweed & Pham Symposium toward Thailand BCG Economy

– Conclusion of the Be-HoBiD project 2021-2026

31 August to 1 September 2026, Ballroom C, Maruay Garden Hotel, Bangkok

Tentative Program

31 August 2569	
11:00-12:00	Registration
12:00-13:00	Lunch
13:00-13:20	Opening Ceremony & Group Photo
13:20-13:40	Building a Bioresource Collection of Duckweed Strains with Broad Genetic and Phenotypic Diversity <i>Tokitaka Oyama, Kyoto University</i>
13:40-14:00	Long-term preservation of natural variants and engineered strains of duckweeds and their holobionts <i>Shogo Ito, Kyoto University</i>
14:00-14:20	Development of technologies for controlling duckweed-holobiont for enhanced biomass production: focusing on PGPB application <i>Michihiko Ike, The University of Osaka</i>
14:20-14:40	Predatory bacteria as a tool for microbiome engineering to boost duckweed biomass production <i>Daisuke Inoue, The University of Osaka</i>
14:40-15:00	From synthetic to real ecosystems: toward community-level engineering of the duckweed microbiome <i>Hidehiro Ishizawa, The University of Osaka</i>
15:00-15:20	Coffee Break
15:20-15:40	Potential of bioenergy generated via anaerobic co-digestion of duckweed and primary sludge in a sewage treatment system <i>Kengo Kubota, Tohoku University</i>
15:40-16:00	Production of Microbial Polyhydroxyalkanoates and Their Structural Regulation <i>Ken'ichiro Matsumoto, Rikako Satoh, Kasumi Kobayashi, Toshihiko Ooi, Hokkaido University</i>
16:00-16:20	The Potential of Duckweed Holobiont for Water Quality Improvement and Resource Production <i>Kazuhiro Mori, University of Yamanashi</i>
16:20-16:40	Beyond Phytoremediation: Photosynthesis-Driven Duckweed Systems for Wastewater Treatment and Biomass Production <i>Tadashi Toyama, University of Yamanashi</i>
16:40-17:00	Low-Carbon Potential of Duckweed-Based Technologies <i>Yoshitaka Ebie, National Institute for Environmental Studies</i>
1 September 2026	
09:00-09:20	Dimension of duckweed diversity in Thailand <i>Ekaphan Kraichak, Kasetsart University</i>
09:20-09:40	Diversity and Developmental Biology of <i>Wolffia globosa</i>

	<i>Yosapol Harnvanichvech, Kasetsart University</i>
09:40-10:00	Duckweed-Associated Microbial Biodiversity: From Discovery to Applications for Enhanced Duckweed Growth <i>Kannika Duangmal, Kasetsart University</i>
10:00-10:20	Potential Vitamin B12-Producing DAB of <i>Wolffia globosa</i>-Microbiome <i>Arinthip Thamchaipenet, Kasetsart University</i>
10:20-10:40	Coffee Break
10:40-11:00	Exploring the Chemical and Functional Potential of <i>Wolffia</i>: From Volatile Metabolites to Bioactive and Nutritional Constituents <i>Witcha Imaram, Kasetsart University</i>
11:00-11:20	Enhancing Renewable Energy Production from Tapioca Starch Wastewater through Duckweed Co-digestion <i>Pairaya Choeisai, Khon Khen University</i>
11:20-11:40	Duckweed-derived biomass as a sustainable filler for bioplastics <i>Rangrong Yoksan, Kasetsart University</i>
11:40-12:00	Duckweed as a Sustainable Feed Ingredient for Resilient Animal Production <i>Chanwit Kaewtapee, Kasetsart University</i>
12:00-12:20	Appropriate conditions of duckweed wastewater treatment operations for pollutant removals and biomass production <i>Chart Chiemchaisri, Kasetsart University</i>
12:20-13:20	Lunch Break
	Afternoon session will be presented in Thai
13:20-13:40	Exploring the Bioactive Potential of <i>Wolffia globosa</i>: Antimicrobial, Gut Health, and Carbohydrate-Modulating Effects <i>Suvimol Charoensiddhi, Kasetsart University</i>
13:40-14:00	Plant Factory: Revolutionizing Duckweed Production for High-Value Crop <i>Weerasin Sonjaroon, Kasetsart University</i>
14:00-14:20	Potential of well-mixed aerated system for <i>Wolffia</i>-based CO₂ capture <i>Kasidit Nootong, Chulalongkorn University</i>
14:20-14:40	Economic and social impacts of <i>Wolffia</i> as an emerging high-value crop in Thailand and beyond <i>Metha Meetam, Mahidol University</i>
14:40-15:00	From real-world challenges to practical solutions: a researcher's journey in advancing <i>Wolffia</i> toward industrial production <i>Arak Tira-umphon, Suranaree University of Technology</i>
15:00-15:20	Coffee Break
15:20-15:40	<i>Wolffia</i> to enterprise <i>Suwadee Pachariyangkun, Dr. WellnessX Co., Ltd.</i>
15:40-16:20	Panel Discussion: From bench to bulks - How to promote <i>Wolffia</i> from research to commercialization (in Thai) <i>Arinthip Thamchaipenet, Kasetsart University</i> <i>Suvimol Charoensiddhi, Kasetsart University</i> <i>Anuwat Kumpeangkeaw, Ministry of Agriculture and Cooperatives</i> <i>Pornpunnin Satawatthamrong, Ministry of Commerce</i> <i>Metha Meetam, Mahidol University</i>
16:20-16:30	Closing Ceremony