

Generations in Synergy: International Conference on Innovation in Agricultural Biotechnology and ISBAB Taiwan Annual Symposium

Date : Wednesday, October 1, 2025

Venue : Life Science Building, International Lecture Hall 1F, NCHU

Time	Programs	Poster presentation
08:30-09:00	Registration	
09:00-09:20	Opening Ceremony & Group Photo	
09:20-10:10	Section : Plant Signaling and Adaptation (陳全木副校長) Chair : Dr. Chuan-Mu Chen (Professor and Vice President / Dept. of Life Sciences NCHU)	
	Keynote I : Dr. Blake Meyers Academician of the U.S. National Academy of Sciences / Dept. of Plant Sciences, UC Davis) Title : Phased, secondary siRNAs in plant reproduction	
10:10-10:30	Refreshments	
10:30-11:20	Chair : Dr. Yang-Chang Wu (吳永昌教授) (Director, Comprehensive Research Centers, China Medical University Hospital)	
	Keynote II : Dr. Kuo-Chen Yeh (葉國楨主任) (Distinguished Research Fellow and Director, ABRC, Academia Sinica) Title : Uncoupling Aerenchyma and Iron Plaque Formation in Rice	
11:20-11:50	Invited Speaker I : Dr. Ying-Lan Chen (陳盈嵐副教授) (Dept. of Biotechnology and Bioindustry Sciences, NCKU) Title : A Long-distance Signaling Peptide across Flowering Plants Regulate Plant Growth and Immunity	
12:00-13:30	Lunch / Annual Meeting Board of International Society on Biocatalysis and Agricultural Biotechnology-Taiwan Chapter Meeting	
13:30-14:20	Section : Molecular Engineering and Biocatalysis (徐麗芬特聘研究員) Chair : Dr. Lie-Fen Shyur (Distinguished Research Fellow, ABRC, Academia Sinica)	
	Keynote III : Dr. R. Holland Cheng (Dept. of Molecular and Cellular Biology, UC Davis) Title : Mucosal Nanocapsid with Quaternary Modularity for Targeted Delivery	
14:20-14:50	Invited Speaker II : Dr. Chun-Hua Hsu (徐駿森教授) (Dept. of Agricultural Chemistry, NTU) Title : From Pigment Biosynthesis to Neurochemical Sensing: Functional Rewiring of Plant Dioxygenases	
14:50-15:20	Invited Speaker III : Dr. Ching-Ching Yu (游景晴副教授) (Dept. of Chemistry, NTHU) Title : Analytical and Biocatalytic Advances Toward Bioactive Fucosylated HMOs	
15:20-15:40	Refreshments	
15:40-16:30	Section : Advanced Plant Science Chair : Dr. Chiu-Chung Young (楊秋忠院士) (Academician of Academia Sinica / Professor, Dept. of Soil and Environmental Sciences, NCHU)	

	Keynote IV : Dr. Oren Osterseztzer-Biran (Head, Graduate Biotechnology Program; Director, Hebrew University Center for Sustainability, The Hebrew University of Jerusalem) Title : The evolution of angiosperms organellar gene regulation: Impacts on Eukaryogenesis and land (plant) adaptation	
16:30-17:00	Invited Speaker IV : Dr. Ming-Jung Liu (劉明容副研究員) (Associate Research Fellow, ABRC, Academia Sinica) Title : Design and Generation of Plant Auto-Bioluminescent Pi-deficiency Sensors (BioLumiPi) via promoter design and CRISPR-Editing	
17:00-17:30	Invited Speaker V : Dr. Su-Chiung Fang (方素瓊研究員) (Research Fellow, ABRC, Academia Sinica) Title : Molecular insights into the distinct developmental pathways of the micropropagation processes in <i>Phalaenopsis</i> orchids	
Symposium Banquet		

Generations in Synergy: International Conference on Innovation in Agricultural Biotechnology and ISBAB Taiwan Annual Symposium

Date: Thursday, October 2, 2025

Venue : Life Science Building, International Lecture Hall 1F, NCHU

Time	Programs	
09:00-09:50	Section : Nutrition, Microbes & Immunity Chair : Dr. Ter-Hsin Chen (陳德勛院長) (Professor and Dean, College of Veterinary Medicine, NCHU)	Poster presentation
	Keynote V : Dr. Yutaka Kuroda (日本黒田裕(豊)教授) (Dept. of Biotechnology and Life Science, Tokyo University of Agriculture and Technology) Title : Protein Immuno-Engineered vaccine seed	
09:50-10:10	Refreshments	
10:10-11:00	Chair : Dr. En-Pei Isabel Chiang (蔣恩沛教授) (Distinguished Professor and Chair, Department of Food Science and Biotechnology, NCHU)	
	Keynote VI : Dr. Maria L. Marco (Chair of the Food Science Graduate Group ; Dept. of Food Science and Technology, UC Davis) Title : Dietary microbes as friends, not foe	
11:00-11:50	Keynote VII : Dr. Hyung-Wook Kwon (韓國權亨旭教授) (Director of Convergence Research Center for Insect Vectors ; Dept. of Life Sciences, Incheon National University) Title : Development and Evaluation of Pollen Substitute Diets for Honey Bees and Assessment of Health-Related Molecular Markers	
12:00-13:00	Lunch	
13:00-13:50	Section : Artificial Intelligence in Health and Biological Systems Chair : Dr. Chien-Chen Lai (賴建成教授) (Lifetime Distinguished Professor, Institute of Molecular Biology, College of Life Sciences, NCHU)	
	Keynote VIII : Dr. Patrick Chiu-Yat Woo (胡釗逸教授) (Chair Prof. of the Doctoral Program in Translational Medicine, NCHU) Title : East meets West: Infection, Acupuncture, and Artificial Intelligence	
13:50-14:20	Invited Speaker VI : Dr. Yen-Wei Chu (朱彥煒教授) (Dist. Prof. and Director of the Graduate Institute of Genomics and Bioinformatics, NCHU) Title : The Applications of AI Generative Multispectral Imaging as the Fingerprint for Crop Physiological States	
14:20-14:40	Refreshments	
14:40-15:30	Section : Viruses, Cells, and Aging Chair : Dr. Chieh-Chen Huang (黃介辰院長) (Distinguished Professor and Dean, College of Life Sciences, NCHU)	
	Keynote IX : Dr. Yu-Chan Chao (趙裕展教授) (Chair Professor of the Dept. of Entomology, NCHU)	

	Title : Baculoviruses as Next-Generation Vaccines: Innovation through Insect Biotechnology	
15:30-16:00	Invited Speaker VII : Dr. Wei-Li Hsu (徐維莉教授) (Dist. Prof. and Director of the Graduate Institute of Microbiology and Public Health, NCHU) Title : Functional Diversity of NS1 Variants in Avian Influenza Virus	
16:00-16:30	Invited Speaker VIII : Dr. Ying-Ming Liou (劉英明教授) (Dept. of Life Sciences, NCHU) Title : How Cellular Stress Accelerates Stem Cell Aging: Exploring the CHOP–AKR1A1–p53 Pathway	
16:30-17:00	Closing Ceremony	