

Program at a Glance (Modified on Nov. 8)

■ Day 1 - November 9 (Tue)

Time (JST)	Speaker & Title
9:00 – 9:10	Opening Remarks Kazuhito Fujiyama, Osaka University, Japan
9:10 – 9:20	General Information
Session 1 Chair: Ko Kato, Nara Institute of Science and Technology, Japan	
9:20 – 9:55	<i>Invited Lecture 1</i> Marc-André D’Aoust, Medicago Inc., Canada “Development of a Plant-based Virus-like Particle Vaccine for COVID-19”
9:55 – 10:50	Coffee Break
Session 2 Chair: Ryo Matsuda, The University of Tokyo, Japan	
10:50 – 11:25	<i>Invited Lecture 3</i> Nobuyuki Matoba, University of Louisville, USA “EPICERTIN, a Plant-derived Recombinant Cholera Toxin B Subunit Variant with Mucosal Healing Activity in Colitis”
11:25 – 11:45	<i>Oral Presentation 3</i> Matthew Dent, University of Louisville, USA “Plant-based Expression of a Lectibody, its Variants, and their Anti-cancer Activities”
11:45 – 12:05	<i>Oral Presentation</i> Ratna Sariyatun, Osaka University, Japan “Production of Human Recombinant Acid-Alpha Glucosidase (GAA) with Paucimannose Structure in Arabidopsis <i>alg3</i> Cell Culture”
12:05 – 13:35	Lunch Break

Time (JST)	Speaker & Title
Session 3 Chair: Hiroyuki Kajiura, Osaka University, Japan	
13:35 – 14:10	<i>Invited Lecture 4</i> Ko Kato, Nara Institute of Science and Technology, Japan “Design of Artificial Genes for Efficient Expression of Target Proteins in Plants”
14:10 – 14:30	<i>Oral Presentation 4</i> Wataru Matsunaga, Hokkaido University, Japan “Technology for Controlling Gene Expression by Inducing Demethylation Using Viral Vectors Expressing Ribozymes”
14:30 – 14:50	<i>Oral Presentation 5</i> Noriho Fukuzawa, National Institute of Advanced Industrial Science and Technology, Japan “Development of Technology for the Induction of Endogenous Gene DNA Methylation Using Plant RNA Virus Vectors”
14:50 – 15:10	<i>Oral Presentation 6</i> Kouki Matsuo, National Institute of Advanced Industrial Science and Technology, Japan “Knockout of RNA Silencing-related Genes in <i>Nicotiana benthamiana</i> Plants for Efficient Transient Expression of Recombinant Proteins”
15:10 – 15:30	<i>Supporter Presentation 1</i> Yasumasa Dekishima, Mitsubishi Chemical Corporation, Japan “A Novel Approach for the Biomanufacturing of Human Activin by Transient Expression in <i>Nicotiana benthamiana</i> ”
15:30 – 15:50	Coffee Break

Time (JST)	Speaker & Title
Session 4 Chair: Naomichi Fujiuchi, Ehime University, Japan	
15:50 – 16:25	<i>Invited Lecture 5</i> Eun-Ju Sohn, BioApplications Inc., South Korea “A Safe and Efficacious Recombinant Protein Vaccine from Plant-platform Can Combat CSFV (Classical Swine Fever Virus)”
16:25 – 17:00	<i>Invited Lecture 6</i> Victor Klimyuk, Icon Genetics GmbH, Germany “Plant-made Individualized and Universal Vaccine Candidate Case Studies”
17:00 – 17:20	<i>Oral Presentation 7</i> Kenji Miura, University of Tsukuba, Japan “Prevention of Necrosis Caused by Transient Expression in <i>Nicotiana benthamiana</i> by Applying High Concentration of Ascorbate”
17:20 – 17:40	<i>Supporter Presentation 2</i> Noriko Tabayashi, Hokusan Co., Ltd., Japan “The Development of InterBerry $\alpha^{\text{®}}$; A Drug Substance Derived from Genetically Modified Strawberries”
17:40 – 17:45	General Information

■ Day 2 - November 10 (Wed)

Time (JST)	Speaker & Title
9:00 – 12:00	Joint Symposium of Osaka University, University of California, Davis, and Kirin Holdings Co. Ltd. Please refer to page
12:00 – 13:10	Lunch Break
Session 5 Chair: Kouki Matsuo, National Institute of Advanced Industrial Science and Technology, Japan	
13:10 – 13:45	<i>Invited Lecture 7</i> Waranyoo Phoolcharoen, Chulalongkorn University, Thailand “Towards Clinical Trial Phase I of Plant-based COVID-19 Vaccine in Thailand”
13:45 – 14:20	<i>Invited Lecture 8</i> Min-Chao Jiang, Academia Sinica, Taiwan “Production of Plant-made Recombinant Interferon Gamma Glycoprotein with BaMV-based Expression System”
14:20 – 14:40	<i>Oral Presentation 8</i> Naphatsamon Uthailak, Osaka University, Japan “Glycoengineered <i>N. benthamiana</i> Plants Used in the Production of Recombinant β -glucocerebrosidase with Mannosidic Type <i>N</i> -glycans”
14:40 – 15:00	<i>Oral Presentation 9</i> Nanami Sekino, Osaka University, Japan “Examination of Key Additives for Accelerating Recombinant Protein Production in Plant Cell Suspension Culture”
15:00 – 15:20	Coffee Break
Session 6 Chair: Kazuhito Fujiyama, Osaka University, Japan	
15:20 – 15:55	<i>Invited Lecture 9</i> Naomichi Fujiuchi, Ehime University, Japan “Environment Control and Cultivation Management for Each Stage of Upstream Production of Agrobacterium-mediated Transient Gene Expression System Using <i>Nicotiana benthamiana</i> Whole Plants and Detached Leaves”

Time (JST)	Speaker & Title
15:55 – 16:15	<i>Oral Presentation 10</i> Ryo Matsuda, The University of Tokyo, Japan “Effects of Light Environment before Gene Transfer on the Hemagglutinin Productivity of <i>Nicotiana benthamiana</i> Plants in a Transient Gene Expression System”
16:15 – 16:35	<i>Supporter Presentation 3</i> Yoji Yuki, UniBio Corporation, Japan “Safe, Swift, Scalable, Saves Cost, Super Quality: UniBio's Plant-based Protein Production Technology”
16:35 – 17:05	<i>Special Lecture</i> Takeshi Matsumura, National Institute of Advanced Industrial Science and Technology, Japan “The Past, the Present and the Future of PMPs in Japan”
17:05 – 17:15	Short Break
17:15 – 17:30	General Discussion
17:30 – 17:45	Closing Remarks Kazuhito Fujiyama, Osaka University, Japan

