

MONDAY 28 AUGUST 2023-PROGRAM

Hongo Campus

Room1	Room2 (Ito Hall)	Room3
	JSHS 100 Years Anniversary Ceremony 13:00-15:20	Live viewing
	Opening Ceremony Plenary Sessions 15:30-17:30	

Banquet @ Tokyo Dome Hotel (18:30- 20:30)

TUESDAY 29 AUGUST 2023-PROGRAM

Hongo Campus

Room1	Room2 (Ito Hall)	Room3
S1 Fruit Tree Science, Plant Physiology, Breeding 9:00-10:15	S2 Floriculture, Biochemical and Molecular Aspect 9:00-10:15	S4 Vegetable Science, Production System, Urban Agriculture 9:00-10:15
Coffee Break 10:15-10:45	Coffee Break 10:15-10:45	Coffee Break 10:15-10:45
S1 Fruit Tree Science, Plant Physiology, Breeding 10:45-12:00	S2 Floriculture, Biochemical and Molecular Aspect 10:45-11:30	S4 Vegetable Science, Production System, Urban Agriculture 10:45-12:00
Lunch Break 12:00-13:15	Lunch Break 11:30-13:00	Lunch Break 12:00-13:15
S1 Fruit Tree Science, Plant Physiology, Breeding 13:15-15:00	S2 Floriculture, Biochemical and Molecular Aspect 13:00-14:45	S4 Vegetable Science, Production System, Urban Agriculture 13:15-15:00
Coffee Break 15:00-15:30	Coffee Break 14:45-15:15	Coffee Break 15:00-15:30
S1 Fruit Tree Science, Plant Physiology, Breeding 15:30-17:15	S2 Floriculture, Biochemical and Molecular Aspect 15:15-17:00	S4 Vegetable Science, Production System, Urban Agriculture 15:30-17:30

Yayoi Campus

Room4	Room5
S6 Postharvest Physiology 9:00-10:15	S8 Seed, Sustainability, Economics 9:00-10:00
Coffee Break 10:15-10:45	Coffee Break 10:00-10:30
S6 Postharvest Physiology 10:45-11:30	S8 Seed, Sustainability, Economics 10:30-11:15
Lunch Break 11:30-13:00	Lunch Break 11:15-13:00
S6 Postharvest Physiology 13:00-15:00	S8 Seed, Sustainability, Economics 13:00-14:45
Coffee Break 15:00-15:30	Coffee Break 14:45-15:15
S6 Postharvest Physiology 15:30-17:00	S8 Seed, Sustainability, Economics 15:15-17:00

Poster/Odd# (18:00 - 19:00) & Cocktail Party (- 20:00)

Poster/Odd# (18:00 - 19:00) & Cocktail Party (- 20:00)

WEDNESDAY 30 AUGUST 2023-PROGRAM

Hongo Campus

Room1	Room2 (Ito Hall)	Room3
S1 Fruit Tree Science, Plant Physiology, Breeding 9:00-10:00	S3 Production System, Hydroponics, Soil 9:00-10:15	S5 Genetic Resources and Breeding 9:00-10:30
Coffee Break 10:00-10:30	Coffee Break 10:15-10:45	Coffee Break 10:30-11:00
S1 Fruit Tree Science, Plant Physiology, Breeding 10:45-11:15	S3 Production System, Hydroponics, Soil 10:45-11:45	S5 Genetic Resources and Breeding 11:00-12:00
Lunch Break 11:15-13:00	Luncheon Seminar 11:45 - 13:00	Lunch Break 12:00-13:00
S1 Fruit Tree Science, Plant Physiology, Breeding 13:00-14:00	S3 Production System, Hydroponics, Soil 13:00-14:15	S5 Genetic Resources and Breeding 13:00-14:00
Coffee Break 14:00-14:30	Coffee Break 14:15-14:45	Coffee Break 14:00-14:30
S1 Fruit Tree Science, Plant Physiology, Breeding 14:30-15:15	S3 Production System, Hydroponics, Soil 14:45-15:30	S5 Genetic Resources and Breeding 14:30-15:30

Yayoi Campus

Room4	Room5
S7 Plant Protection 9:00-10:15	S9 Genetic Modification, Breeding 9:00-10:15
Coffee Break 10:15-10:45	Coffee Break 10:15-10:45
S7 Plant Protection 10:45-11:30	S9 Genetic Modification, Breeding 10:45-11:45
Lunch Break 11:30-13:15	Lunch Break 11:45-13:00
S7 Plant Protection 13:15-14:15	S9 Genetic Modification, Breeding 13:00-14:30
Coffee Break 14:15-14:45	Coffee Break 14:30-15:00

Commemorative photo @ Ito Hall 16:00-16:15

Poster/Even# (16:15 - 17:15)

Poster/Even# (16:15 - 17:15)

Business Meeting

17:30-18:15

Closing Ceremony

18:15-18:30

Room1 (29-Aug) Symposium-1: Fruit Tree Science, Plant Physiology, Breeding



9:00-9:30	S1-1	Metabolic adaptation and fruit quality formation of citrus auto- and allo-polyploids	Invited speaker: Wen-Wu Guo (Huazhong Agricultural University)
9:30-9:45	S1-2	Supplemental light intensity increases cluster number of young 'Traminette' grapevines	Kyle Freedman (NC State University)
9:45-10:00	S1-3	Profile of gene expression at the berry enlargement phase of the large berry mutant of 'Delaware' grape	Hikaru Ishikawa (The United Graduate School of Agricultural Sciences, Iwate University)
10:00-10:15	S1-4	Non-destructive monitoring of maturity of peach fruit and grape berry on trees by a portable vibrating device	Naoki Sakurai (Hiroshima university)
COFFEE BREAK			
10:45-11:00	S1-5	Analyses of micro-structure, cell wall polysaccharides and candidate cell wall-related genes during clingstone and freestone stony hard peach fruit ripening	Hongmei Wang (Zhengzhou Fruit Research Institute)
11:00-11:15	S1-6	Changes in 'SunGold' skin topography induced by controlled scuffing	Talon Sneddon (Massey University)
11:15-11:30	S1-7	Productivity and labor saving effect of Japanese pear in 'Joint V-shaped trellis'	Tatsuya Seki (Kanagawa Agricultural Technology Center)
11:30-11:45	S1-8	Abscisic acid alleviates the low calcium stress on apple rootstock <i>Malus hupehensis</i> Rehd	Weiwei Zhang (Shandong Agricultural University)
11:45-12:00	S1-9	Change in the date of harvesting and the quality of harvested fruits for apple trees cultivated under high temperature and CO ₂	Daiyu Ito (Hirosaki University)

LUNCH BREAK

13:15-13:30	S1-10	Transcriptomic and cytological studies on tannin cell differentiation and development	Fujiwara Yosuke (Kyoto University)
13:30-13:45	S1-11	Transcriptional regulation of sugar metabolism in citrus under cold stress	Ji-Hong Liu (Huazhong Agricultural University)
13:45-14:00	S1-12	Pomegranate skin development and cutin composition by omics approaches	Idit Ginzberg (ARO, Volcani Institute, Israel)
14:00-14:15	S1-13	The NAC transcription factor PpNAC1 increases PpMYB10.1 expression to promote anthocyanin biosynthesis in peach autumn leaves	Jun Ren Meng (Chinese Academy of Agricultural Sciences, Zhengzhou Fruit Research Institute)
14:15-14:30	S1-14	Ethylene inhibits anthocyanin biosynthesis in red pear fruits	Songling Bai (Zhejiang University)
14:30-14:45	S1-15	Characterization of ethylene and ABA biosynthesis and response in rabbiteye blueberry 'Tifblue'	Yuning Bao (Lab of Pomology, Kyoto University)
14:45-15:00	S1-16	De novo transcriptome of <i>Stelechocarpus burahol</i> Hook.f. & Thomson Merr. leaves using long reads PCR-cDNA Sequencing	Deden Derajat Matra (IPB University)

COFFEE BREAK

15:30-15:45	S1-17	A spectral imaging predicted model for chilling stress of papaya (<i>Carica papaya</i> L.) plant	You-Chiao Yeh (Agricultural Technology Research Institute)
15:45-16:00	S1-18	Improved methods to estimate the optimized inflorescence size for 'Rose Red' litchi fruit set	JenYu Chang (Taiwan Agricultural Research Institute)
16:00-16:15	S1-19	Alleviate high temperature stress in longan production by using a hydrocooling approach	Aussanee Pichakum (Mahidol University)
16:15-16:30	S1-20	Differences artificial light spectrum using light emitting diode on secondary metabolite profiles in Kasturi mango seedlings from Tembilahan, Riau, Indonesia	Pandi Ariansah (IPB University)

16:30-16:45	S1-21	Induction of anti-inflammatory and antioxidant activities of 'Mahachanok' mango influenced by high hydrostatic pressure	Sutthiwal Setha (School of Agro-Industry Mae Fah Luang Unive)
16:45-17:00	S1-22	The respiration and ethylene emission rate on different fruit stages and varieties of indian jujube (<i>Ziziphus mauritiana</i> Lam.)	Hsin Liang Chen (Taiwan Agricultural Research Institute)
17:00-17:15	S1-23	Evaluation of transpiration rate of 'Nom Sod' jujube during the fruit setting period	Isarangkool Na Ayutthaya (Department of Horticulture, Faculty of Agriculture, Khon Kaen University)

Room1 (30-Aug) Symposium-1: Fruit Tree Science, Plant Physiology, Breeding

9:00-9:15	S1-24	Comparative genomic analysis between Japanese peach cultivar 'Akatsuki' and its bud sport mutants with diverse maturity dates	Masaru Amamori (Kyoto university)
9:15-9:30	S1-25	Genetic diversity of phenotypic traits of pear in China	Ying Zhang (Research Institute of Pomology, Chinese Academy of Agricultural Sciences)
9:30-9:45	S1-26	Identification of SNP loci and candidate genes associated with fatty acid composition in Macadamia nut kernels	Wei Hu (University of Queensland)
9:45-10:00	S1-27	Exploring the association of early vigour with precocity in macadamia	Pragya Dhakal Poudel (Queensland Alliance for Agriculture and Food Innovation, The University of Queensland)

COFFEE BREAK

10:30-10:45	Canceled		
10:45-11:00	S1-28	PeachMD: a multi-omics database for peach biological study	Wenfang Zeng (Zhengzhou Fruit Research Institute, CAAS)

11:00-11:15	S1-29	Comparative genomic analysis of 25 peach varieties	Tatsuki Kinugawa (Kindai University)
-------------	--------------	----------------------------------------------------	--------------------------------------

LUNCH BREAK

13:00-13:15	S1-30	A database system for managing and collecting persimmon breeding data and its application to the inspection of breeding progress	Noriyuki Onoue (Institute of Fruit Tree and Tea Science, NARO)
-------------	--------------	----------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------

13:15-13:30	S1-31	Phylogenetic classification of Japanese raspberry wild species, <i>Rubus parvifolius</i>	Saki Toshima (University of Miyazaki)
-------------	--------------	------------------------------------------------------------------------------------------	----------------------------------------

13:30-13:45	S1-32	Quantitative Trait Locus analysis of the F1 breeding population of 180-1-08 × 'Del Monte Gold' pineapples	Kenji Nashima (Nihon University)
-------------	--------------	-----------------------------------------------------------------------------------------------------------	----------------------------------

13:45-14:00	S1-33	Landscape of genomic rearrangements in hundreds-years clonal evolution of Satsuma mandarin (<i>Citrus unshiu</i>)	Tomoka Matsuda (Okayama University)
-------------	--------------	---------------------------------------------------------------------------------------------------------------------	-------------------------------------

COFFEE BREAK

14:30-14:45	S1-34	The responses of citrus growth stages to the changing climatic conditions in Australia	Tahir Khurshid (New South Wales Department of Primary Industries)
-------------	--------------	----------------------------------------------------------------------------------------	-------------------------------------------------------------------

14:45-15:00	S1-35	Indonesian pummelo (<i>Citrus maxima</i> (Burm.) Merr.): Its varieties and characteristics	Slamet Susanto (Bogor Agricultural University)
-------------	--------------	---------------------------------------------------------------------------------------------	------------------------------------------------

15:00-15:15	S1-36	Impact of microclimate on tea young shoot metabolites	Chun-Hsiang Wang (National Taiwan University)
-------------	--------------	-------------------------------------------------------	-----------------------------------------------

Room2 (29-Aug) Symposium-2: Floriculture, Biochemical and Molecular Aspect



9:00-9:30	S2-1	Genome information and its industrial applications for plants	Invited speaker: Hideki Hirakawa (Kazusa DNA Research Institute)
9:30-9:45	S2-2	Multi-omics reveals release rhythm, biosynthetic mechanism and commercial uses of tea scent in <i>R. gigantea</i>	Lijun Zhou (Beijing Forestry University)
9:45-10:00	S2-3	Comparative analysis of volatile organic compounds and floral micromorphology of wild orchids epigeneium spp	Minori Isoda (Graduate School of Science and Technology, University of Tsukuba)
10:00-10:15	S2-4	Total phenol, flavonoid contents, and antioxidant activity in different flower morphology of tagetes patula mutants induced by gamma irradiation	Ade Buchori (IPB University)

COFFEE BREAK

10:45-11:00	S2-5	Yellow flavonoid 6'-deoxychalcone biosynthesis in dahlia	Sho Ohno (Kyoto University)
11:00-11:15	S2-6	Functional analysis of betalain biosynthesis genes in <i>Portulaca umbraticola</i>	Chisaki Sumi (University of Tokyo)
11:15-11:30	S2-7	Flavonoids bioactive content of <i>Indigofera tinctoria</i> as a potential medical plant with inorganic fertilizer applications	Nor Isnaeni Dwi Arista (IPB University)

LUNCH BREAK

13:00-13:15	S2-8	Classification of flowering response in Korean native species for manipulation of flowering time	Nam Hyun Im (Seoul National University)
13:15-13:30	S2-9	Effects of three exogenous substances on heat tolerance of peony seedlings	Minhuan Zhang (Central South University of Forestry and Technology)
13:30-13:45	S2-10	Evaluated crop water requirement of flowering potted <i>Curcuma hybrids</i> cv. 'Doi Tung Red' under off-season production	Panupon Hongpakdee (Khon Kaen University)

13:45-14:00	S2-11	Classification of ethylene sensitivity in cut flowers of dahlia and selection of 'Eternity Shine' with low ethylene sensitivity	Takuo Fujimoto (Institute of Vegetable and Floriculture Science, NARO)
14:00-14:15	S2-12	Effect of holding solutions on cut flower quality and vase life of three <i>Allium</i> species native to Korea	Bo Kook Jang (Korea National Arboretum)
14:15-14:30	S2-13	Oxygen nanobubble shipping solutions improve the postharvest quality of cut <i>Cymbidium</i> 'Lovely King'	You Kyung Chung (Seoul Women's University)
14:30-14:45	S2-14	The 1-methylcyclopropene (1-MCP) short-term treatment enhances flower quality of cut <i>Eustoma grandiflorum</i> [Raf.] Shinn	Yen-Hua Chen (Taichung district of agricultural research and extension station, COA, Taiwan)

COFFEE BREAK

15:15-15:30	S2-15	KNOX genes were involved in regulating axillary bud formation of <i>Chrysanthemum × morifolium</i>	Cunquan Yuan (Beijing Forestry University)
15:30-15:45	S2-16	Effects of 6-benzyladenine application on axillary buds of <i>Oncidesa</i> Gower Ramsey 'Honey Angel' at various growth stages, an anatomy study	Yi-Ting Li (Department of Horticulture and Landscape Architecture, National Taiwan University)
15:45-16:00	S2-17	The molecular mechanism underlying the tortuous-branch phenotype of <i>Prunus mume</i>	Tangchun Zheng (Beijing Forestry University)
16:00-16:15	S2-18	Transcriptome analysis reveals senescence-related molecular mechanisms in <i>Ornithogalum thyrsoides</i> florets	Kenji Yamane (Utsunomiya University)
16:15-16:30	S2-19	Functional analysis of circadian clock gene CsELF4 associated with photoperiodic flowering in chrysanthemum	Xiaoming Sui (The University of Tokyo)
16:30-16:45	S2-20	Functional analyses of CYC2 genes involved in capitulum development in <i>Chrysanthemum seticuspe</i>	Yebing Wu (The University of Tokyo)
16:45-17:00	S2-21	Chromatin accessibility of heat stress response genes is enhanced by heat stress in <i>Rosa chinensis</i>	Wen Xing (Central South University of Forestry and Technology)

Room2 (30-Aug) Symposium-3: Production System, Hydroponics, Soil



9:00-9:15	S3-1	Light environment control for dense <i>Nicotiana benthamiana</i> canopy to improve recombinant protein production in a transient gene expression system	Ji-Yoon Lee (The University of Tokyo)
9:15-9:30	S3-2	Strategies for increasing the production of high-value natural products in plants	Kexuan Tang (Shanghai Jiao Tong University)
9:30-9:45	S3-3	Plant-made pharmaceuticals as a highly valuable product producible in vertical farms: environmental control to maximize productivity	Ryo Matsuda (The University of Tokyo)
9:45-10:00	S3-4	Establishment of cultivation protocol for <i>Glehnia littoralis</i> in plant factories with artificial lighting	Moon-Sun Yeom (Chungbuk National University)
10:00-10:15	S3-5	Plant phenotyping of individual plants based on cohort research in PFALs	Eri Hayashi (Japan Plant Factory Association)

COFFEE BREAK

10:45-11:00	S3-6	Effects of fertilization in drill-holes on soil gas exchange and apple root and fruit characteristics	Hongqiang Yang (Shandong Agricultural University)
11:00-11:15	S3-7	Continuous nitrogen fertilization immobilized nuclear accident-derived ¹³⁷ Cs in apple orchard soil during 10 years after the accident	Kaori Matsuoka (Institute for Agro-Environmental Sciences, National Agriculture and Food Research Organization)
11:15-11:30	S3-8	Determination the effect of fish bone meal application on the growth of eggplant (<i>Solanum melongena</i>)	Nor Idzwana Mohd Idris (Universiti Malaysia Terengganu)
11:30-11:45	S3-9	Can cattail fibers effectively replace peat in soilless growing media?	Poonam Singh (Assiniboine Community College, MB, Canada)

LUNCHEON SEMINAR

13:00-13:15	S3-10	The suggestion study of sustainable plan and drainage water reuse for the eco-friendly horticulture facility, Korea	Jinkwan Son (National Institute of Agricultural Sciences, RDA)
13:15-13:30	S3-11	A new technique to realize a drastic acceleration of crop growth in the DFT hydroponic cultivation with hyper-oxygenated nutrient solution	Hiroaki Tsutsumi (Prefectural University of Kumamoto)
13:30-13:45	S3-12	The first step to organic hydroponics- Preparing microbial culture solutions with easily accessed household liquid organic fertilizers in a subtropical farm	Ting-I Lee (National Chiayi University)
13:45-14:00	S3-13	Increasing bioactive compound accumulation in <i>Agastache rugosa</i> by diniconazole and hydrogen peroxide soaking in a hydroponic culture system	VU Phong Lam (Chungnam National University)
14:00-14:15	S3-14	Modification of root zone for sweetpotato cultivation and expansion to aquaponics in wet lowland areas	A F M Saiful Islam (Sylhet Agricultural University)

COFFEE BREAK

14:45-15:00	S3-15	Structure and function of the xylem of tomato stem with adventitious roots	Toshihiro Umebayashi (Akita Prefectural University)
15:00-15:15	S3-16	Study of chemically-induced intumescence injury in tomato cultivars (<i>Solanum lycopersicum</i>)	Natassia Clara Sita (The United Graduate School of Agricultural Science, Gifu University)
15:15-15:30	S3-17	The effect of plant-growth promoting rhizobacteria (PGPR) inoculation on the growth of <i>Lactuca sativa</i> (Frillice Iceberg) under waterlogging in hydroponic system	Thitipat Weeplian (School of Agricultural Resources, Chulalongkorn University)

Room3 (29-Aug) Symposium-4: Vegetable Science, Production System, Urban Agriculture



9:00-9:30	S4-1	Advanced technologies for greenhouse crop production and vertical farming	Invited speaker: Jung Eek Son (Seoul National University)
9:30-9:45	S4-2	Growth, fruit and phytochemical characteristics of watermelon as affected by irradiation of light-emitting diodes grown under hydroponics system of smart-farm	Yumin Jeon (Chungcheongbukdo Agricultural Research and Extension Service)
9:45-10:00	S4-3	Effects of daytime LED supplemental lighting on strawberry growth and yield under subtropical climate	Masakazu Nakayama (Japan International Research Center for Agricultural Sciences)
10:00-10:15	S4-4	Effects of the red light/far-red ratio on plant shape, fruit yield, and fruit quality in <i>Fragaria × ananassa</i> Duch. cv. 'Beni hoppe'	Ryosuke Yamanaka (NARO)

COFFEE BREAK

10:45-11:00	S4-5	Effect of blue LED growing light on enhancing phytonutrients and antioxidants of plant: factory-grown kale microgreens	Nutthachai Pongprasert (King Mongkut's University of Technology Thonburi)
11:00-11:15	S4-6	Effects of planting densities on the growth of lettuce (<i>Lactuca sativa</i>) under continuous lighting by blue, red and far-red light emitting diodes	Naoya Fukuda (University of Tsukuba)
11:15-11:30	S4-7	Non-destructive estimation of LAI using diffused radiance of NIR/VIS measurement in tomato canopy	Natsuru Futamata (Shizuoka Prefectural Research Institute of Agriculture and Forestry)
11:30-11:45	S4-8	Spectrum radiometric approach: A nondestructive method for measuring the canopy light interception rate in crops	Yasunaga Iwasaki (Meiji University)
11:45-12:00	S4-9	Yield and quality of cherry tomato at different harvest timing determined by cumulative temperature in plant factory	Dannisa Fathiya Rachma (Chiba University)

LUNCH BREAK

13:15-13:30	S4-10	Evaluation of heat stress of workers using wearable biosensors in protected horticulture	Yosuke Isoyama (Mie Prefectural Agricultural Institute)
-------------	--------------	------------------------------------------------------------------------------------------	---------------------------------------------------------

13:30-13:45	S4-11	Application of object detection and multi-object tracking using deep learning models to the research on flower longevity of ornamental flower crops	Motoyuki Ishimori (The University of Tokyo)
-------------	--------------	-----------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------

13:45-14:00	Canceled		
-------------	----------	--	--

14:00-14:15	S4-12	Growth quantification for individual sweet peppers in a greenhouse with computer vision	Taewon Moon (Seoul National University)
-------------	--------------	-----------------------------------------------------------------------------------------	-----------------------------------------

14:15-14:30	S4-13	Revealing greenhouse carbon fluxes: A novel approach combining 3D scanning and the FvCB photosynthesis model	Inha Hwang (Seoul National University)
-------------	--------------	--------------------------------------------------------------------------------------------------------------	----------------------------------------

14:30-14:45	S4-14	E-textile data gloves for peach harvesting	Daisuke Miyata (University of Aizu)
-------------	--------------	--------------------------------------------	-------------------------------------

14:45-15:00	S4-15	Research on remote farming guidance in urban agriculture utilizing 5G for local network and IoT devices	Takayuki Kobayashi (Tokyo Metropolitan Agriculture and Forestry Research Center)
-------------	--------------	---------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------

COFFEE BREAK

15:30-15:45	S4-16	An evaluation study of a ventilation performance using a newly structure of plastic low tunnels	Yuki Yoneda (National Agriculture and Food Research Organization)
-------------	--------------	-------------------------------------------------------------------------------------------------	-------------------------------------------------------------------

15:45-16:00	S4-17	Enhancing photosynthesis and yield of strawberry with light conversion film	Jun Hyeun Kang (Seoul National University)
-------------	--------------	-----------------------------------------------------------------------------	--------------------------------------------

16:00-16:15	S4-18	Application of okra and thanksgiving cactus to the rooftop greenhouse	Seo Youn Lee (Seoul Women's University)
-------------	--------------	-----------------------------------------------------------------------	-----------------------------------------

16:15-16:30	S4-19	Greenhouses, growth chambers and field stations as core laboratories for plant and horticultural science	Angelo Gallone (King Abdullah University of Science and Technology (KAUST))
-------------	--------------	----------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------

16:30-16:45	S4-20	A look at the growth, yield and postharvest performance of several commercial strawberry cultivars in an Eastern North Carolina greenhouse	Joy Johnson (North Carolina State University)
-------------	--------------	--------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------

16:45-17:00	S4-21	Latest developments in Taiwanese green care initiatives and the lessons Japanese counterparts can learn	Hiroyuki Tsunashima (Osaka Metropolitan University)
17:00-17:15	S4-22	Restoring soil health and sustaining crop yields with agroecological practices, the two main goals of the CMBP Asia-Pacific network: a real opportunity for the horticultural production in Asia	Didier Lesueur (Alliance of Bioversity International and CI)
17:15-17:30	S4-23	Establish a sustainable cucumber production system by good agriculture practice	Hong-ren Lin (National Taiwan University)

Room3 (30-Aug) Symposium-5: Genetic Resources and Breeding

9:00-9:30	S5-1	Morphological and physiological analysis of cucurbit species under waterlogged stresses	Invited speaker: Kuan-Hung Robert Lin (Chinese Culture University)
9:30-9:45	S5-2	Indole-3-acetic acid, a potential hormone for inducing a chilling induced seed browning in pepper fruit	Jieun Seo (Seoul National University)
9:45-10:00	S5-3	Evolutionary characterization and enzymatic activities of pAMT homologs provide an insight into origin of vanillylamine synthesis in the capsaicinoid biosynthesis pathway of chili peppers	Yoshiyuki Tanaka (Kyoto University)
10:00-10:15	S5-4	Effect of a light environment controlled by red and blue LED light irradiation on the growth of <i>Lactuca</i> genetic resources	Manh Tri Le (Yamaguchi University)
10:15-10:30	S5-5	Genetic and epigenetic approaches for understanding molecular mechanism of heterosis in shoots at early developmental stages of Chinese cabbage	Ryo Fujimoto (Kobe University)

COFFEE BREAK

11:00-11:15	S5-6	Transcriptomic and metabolomic analyses reveal that early cold response is necessary to alleviate chilling injury in cucumber (<i>Cucumis sativus</i> L.) fruit peel	Kyeonglim Min (Seoul National University)
-------------	-------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------

11:15-11:30 **S5-7** Modification of CmACO1 by CRISPR/Cas9 extends the shelf-life of *Cucumis melo* var. *reticulatus* melon Satoko Nonaka (University of Tsukuba)

11:30-11:45 **S5-8** Genome editing to produce high Brix and unique fruit shape tomato Katsuhiko Shiratake (Nagoya University)

11:45-12:00 **S5-9** Expression analysis of flowering gene in diploid wild strawberry species Takeshi Kurokura (Utsunomiya University)

LUNCH BREAK

13:00-13:15 **S5-10** *In vitro* breeding: The best tool for rapid papaya crop improvement Puthiyaparambil Josekutty (Skybury Farms)

13:15-13:30 **S5-11** Somatic embryogenesis research facilitates citrus improvement via cell engineering Xiao-Meng Wu (Huazhong Agricultural University)

13:30-13:45 **S5-12** Agrobacterium mediated transformation of rose meristem *in vitro* Kedong Da (North Carolina State University)

13:45-14:00 **S5-13** Callus induction from petal of 3 chrysanthemum cultivars *in vitro* Sorawit Boonprasop (School of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Bangkok)

COFFEE BREAK

14:30-14:45 **S5-14** *In vitro* recalcitrance in woody species revisited Jorge Canhoto (University of Coimbra)

14:45-15:00 **S5-15** Novel aspects and future directions of the rol-technology: improving horticultural plants through a non-GMO breeding method Henrik Lütken (University of Copenhagen)

15:00-15:15 **S5-16** Effects of organic compound and plant growth regulators on seed germination and growth of *Doritis pulcherrima* Lindl. *in vitro* Sutinee Supreeworakij (School of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, Bangkok)

15:15-15:30 **S5-17** Transcription factors involved THCAS promoter in cannabinoid biosynthesis pathway of *Cannabis sativa* L Borworn Tontiworachai (King Mongkut's Institute of Technology Ladkrabang)

Room4 (29-Aug) Symposium-6: Postharvest Physiology

9:00-9:30 **S6-1** Application of microbubbles technology on maintaining postharvest quality of the tropical fresh produces: A case study in Thailand **Invited speaker:**
Varit Srilaong (School of Bioresources and Technology, King Mongkut's University of Technology Thonburi)

9:30-9:45 **S6-2** Evaluation and analysis of different types of pear flesh by TPA during shelf life Luming Tian (Institute of Pomology, Chinese Academy of Agricultural Sciences)

9:45-10:00 **S6-3** Gaseous ozone as a postharvest treatment: recent lessons from South Africa Asanda Mditshwa (University of KwaZulu Natal)

10:00-10:15 **S6-4** Impact of high-pressure on enzyme activity involved in enzymatic browning characteristics of fresh cut apple Racha Tepsorn (Department of Food Science and Technology, Faculty of Science and Technology, Thammasat University)

COFFEE BREAK

10:45-11:00 **S6-5** Postharvest physiology of a new wax apple (*Syzygium samarangense*) cultivar 'Sugar barbie' that exhibits better chilling tolerance and post-storage quality than the 'Red jewel' cultivar Yen-Chou Kuan (National Taiwan University)

11:00-11:15 **S6-6** Curing acceleration as an adaptive postharvest strategy for Mid-autumn festival-associated irregular harvest date of 'Matou Wentan' pomelo in Taiwan Lan-Yen Chang (National Chung-Hsing University, Department of Horticulture)

11:15-11:30 **S6-7** A comparison of physicochemical and ripening characteristics of golden-fleshed 'Haegeum' and green-fleshed 'Hayward' kiwifruit during storage at 0 °C and ripening at 25 °C Joonggon Kim (Seoul national university)

LUNCH BREAK

13:00-13:15	S6-8	Effects of temperature fluctuation on microbial flora of cut lettuce	Risa Kuramoto (Kagoshima University)
13:15-13:30	S6-9	Effects of pre-harvest UV irradiation combined with post-harvest storage temperature and low light irradiation during storage on the functional compounds of Komatsuna (<i>Brassica rapa</i> var. <i>perviridis</i>)	Shoko Hikosaka (Chiba University)
13:30-13:45	S6-10	Development and evaluation of hinokitiol active paper sheets for the postharvest management of broccoli florets	Hridhay Keerthana Kotha (CSIR- Central Food Technological Research Institute)
13:45-14:00	S6-11	Effect of electric field treatment on postharvest quality of green bell pepper	Yuko Hamaguchi (Kagoshima university)
14:00-14:15	S6-12	Preharvest treatment to increase post-harvest quality of hot pepper	Dewi Sukma (IPB University)
14:15-14:30	S6-13	Acoustic technique coupled with machine learning for Phulae pineapple classification	Rattapon Saengrayap (Mae Fah Luang University)
14:30-14:45	S6-14	Effect of chilling periods on ripening of 'Regal Red Comice' pears	Gilbert Rwaganje (Faculty of Agriculture, Yamagata University)
14:45-15:00	S6-15	Deep learning on multidimensional image data diagnose internal disorders in peach fruit	Kosuke Namba (Okayama University)

COFFEE BREAK

15:30-15:45	S6-16	Effect of sugar-ester edible coating on postharvest life and development of chilling injury in tomatoes during ambient and cold storage	Maqsood Muqadas (Okayama University)
15:45-16:00	S6-17	Shelf-life extension of fresh-cut mango (<i>Mangifera indica</i> L. 'Nam Dok Mai Si-Thong') by coating with calcium lactate and ascorbic acid stored in active modified atmosphere packaging	Thamarath Pranamornkith (School of Agro-Industry, Mae Fah Luang University, Chiang Rai, Thailand)

16:00-16:15	S6-18	Extracting strawberry anthocyanins, testing different variables	Toktam Taghavi (Virginia State University)
16:15-16:30	S6-19	The sensory characteristics of cabbage leaves in frozen Champon-style noodle topping as affected by cultivar	Chotika Viriyarattanasak (Nissui Corporation, Central Laboratory Center)
16:30-16:45	S6-20	Comparing bioactivities and chemical constituents of fresh garlic and its processed products	Kanako Matsuse (Yamaguchi University)
16:45-17:00	S6-21	Production of cinnamon essential oil-loaded electrospun nanofiber for postharvest technology application usage	Panida Boonyaritthongchai (King Mongkut's University of Technology Thonburi)

Room4 (30-Aug) Symposium-7: Plant Protection



9:00-9:30	S7-1	Biological control of diseases of major vegetable crops in Indonesia	Invited speaker: Suryo Wiyono (Bogor Agricultural University)
9:30-9:45	S7-2	Identification of candidate genes associated with the defense response following <i>Albugo candida</i> inoculation in <i>Brassica rapa</i> L	Mst Arjina Akter (Kobe University)
9:45-10:00	S7-3	Rapid screening of potential plant-growth rhizobacteria to control chili wilt disease and to promote growth and yield of chili	Pimsiri Tiyyayon (School of Agricultural Resources, Chulalongkorn University)
10:00-10:15	S7-4	Identification and phylogenetic analysis of cucumber mosaic virus (CMV) from the main pepper producing areas in northern China	Hailong Yu (Institute of Vegetables and Flowers, Chinese Academy of Agricultural Sciences)

COFFEE BREAK

10:45-11:00	S7-5	Occurrence of new viral diseases of lisianthus in Taiwan in past decade	Yuh Kun Chen (National Chung Hsing University)
-------------	-------------	-------------------------------------------------------------------------	------------------------------------------------

11:00-11:15	S7-6	Infection of chrysanthemum stunt viroid (CSVd) decreased the growth of dahlias and affected the petal color and occurrence of open center flowers	Shunsuke Asano (Nara Prefecture Agricultural Research and Development Center)
-------------	-------------	---------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------

11:15-11:30	S7-7	Stem rot of Indian borage caused by <i>Phytophthium helicoides</i>	Hsiu-Jung Chien (Department of Plant Medicine, National Chiayi University)
-------------	-------------	--------------------------------------------------------------------	----------------------------------------------------------------------------

LUNCH BREAK

13:15-13:30	S7-8	Biological and chemical control of coconut rhinoceros beetle (<i>Oryctes rhinoceros</i>), a key pest of coconut palms in Hawaii	Zhiqiang Cheng (University of Hawaii at Manoa)
-------------	-------------	-----------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------

13:30-13:45	S7-9	Current status and importance of the brown marmorated stink bug in Turkey	Celal Tuncer (Ondokuz Mayıs University)
-------------	-------------	---------------------------------------------------------------------------	-----------------------------------------

13:45-14:00	S7-10	Genetic mapping of begomovirus resistance gene in eggplants (<i>Solanum melongena</i> L.)	Nadya Syafira Pohan (Kindai University)
-------------	--------------	--------------------------------------------------------------------------------------------	------------------------------------------

14:00-14:15	S7-11	QTL analysis for anthracnose resistance in pepper (<i>Capsicum annuum</i> L.) at the ripening fruit stage	Daiyuan Zhou (Chinese Academy of Agricultural Sciences)
-------------	--------------	------------------------------------------------------------------------------------------------------------	---------------------------------------------------------

COFFEE BREAK

Room5 (29-Aug) Symposium-8: Seed, Sustainability, Economics



9:00-9:15	S8-1	Seed dormancy of <i>Andrographis paniculata</i> (Burm. f.) Wall. ex Nees and its relationship with seed maturity stages and after-ripening period	Eny Widajati (IPB University)
-----------	-------------	---------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------

9:15-9:30	S8-2	Propagation method of three kinds of Viburnum plants native to Korea	Chungho Ko (Korea National arboretum)
-----------	-------------	----------------------------------------------------------------------	---------------------------------------

9:30-9:45	S8-3	Seed priming with carbon nanotubes increased salt stress tolerance of rocky melon plant (<i>Cucumis melo</i> L.)	Wuttipong Mahakham (Department of Biology, Faculty of Science, Khon Kaen University, Thailand)
9:45-10:00	S8-4	Biopriming or coating with rhizobacteria on hot pepper (<i>Capsicum annuum</i> L.) seeds reduced the incidence of phytophthora blight and improved plant growth and yield	Satriyas Ilyas (IPB University)

COFFEE BREAK

10:30-10:45	S8-5	Nanotechnology for sustainable agriculture: Iron oxide nanoparticles as nanoprimer agent in enhancing germination and seedling growth of rocky melon plants (<i>Cucumis melo</i> L.)	Noppawan Nounjan (International College, Khon Kaen University, Khon Kaen 40002, Thailand)
10:45-11:00	S8-6	Development of technology for mass planting of ghaf tree (<i>Prosopis cineraria</i> L. Druce) using pre-sowing treatment	Zienab Ahmed (Integrative Agriculture Department, UAE University)
11:00-11:15	S8-7	Germination characteristics of <i>Angelica gigas</i> Nakai and <i>Angelica acutiloba</i> Kitagawa as affected by cold stratification and hot water treatment before sowing	Eun Won Park (Gyeongsang National University)

LUNCH BREAK

13:00-13:15	S8-8	<i>Solanum</i> rootstock biodiversity to deal with holoparasitism and fertilizer use efficiency	Purificación A Martínez Melgarejo (CEBAS-CSIC)
13:15-13:30	S8-9	Analysis of rootstock factors responsible for the variability of floral induction in cabbage/radish inter-generic grafting	Ko Motoki (Okayama university)
13:30-13:45	S8-10	Growth characteristics and physiological disorders of cucumber grafted seedlings exposed to low temperatures	So Yeong Hwang (Gyeongsang National University)
13:45-14:00	S8-11	Morphological characteristics of tomato (<i>Solanum lycopersicum</i>) seedlings as affected by exposures to high and low air temperatures	Byungkwan Lee (Seoul National University)
14:00-14:15	S8-12	Growth control of <i>Platycodon grandiflorum</i> seedling using difference between day and night temperatures	Jeong Hun Hwang (Gyeongsang National University)

14:15-14:30 **S8-13** Development of two head-harvesting systems and enlargement of the head in broccoli (*Brassica oleracea* L. var. *italica*) Megumu Takahashi (National Agriculture and Food Research Organization)

14:30-14:45 **S8-14** Evaluation of cabbage growth using quadratic distribution under soil moisture regimes Md ZohurulKadir Roni (Institute of Vegetable & Floriculture Science, NARO)

COFFEE BREAK

15:15-15:30 **S8-15** Performance of thermal insulation box in extending shelf-life of kale under simulated transportation Jutarat Rattanakaran (School of Agro-Industry, Mae Fah Luang University, Chiang Rai, Thailand.)

15:30-15:45 **S8-16** Upgrading the cocoa value chain in nan province based on local resources and circular economy principles Tansiphorn Na Nan (School of Agricultural Resources , Chulalongkorn University)

15:45-16:00 **S8-17** Persimmon cultivation in Afghanistan: from import to local production Ziaurrahman Hejazi (Interdisciplinary Graduate school of Agriculture and Engineering, University of Miyazaki)

16:00-16:15 **S8-18** **Canceled**

16:15-16:30 **S8-19** Muscadine (*Vitis rotundifolia*): The underdog fresh-market grape with world-wide potential Mark Hoffmann (North Carolina State University)

16:30-16:45 **S8-20** Shifts in the American floriculture industry: expert insight by secto Ethan Jenkins (North Carolina State University)

16:45-17:00 **S8-21** Japan's flowers and plants Industry during the COVID-19 pandemic Yasutaka Niisato (Toyama University)

Room5 (30-Aug) Symposium-9: Genetic Modification, Breeding



9:00-9:30	S9-1	Genome-wide association study and genetic mapping revealed a stable major effective QTL CmNet2.2 for melon fruit skin netting	Invited speaker: Feishi Luan (Horticulture and Landscape Architecture College at Northeast Agricultural University)
9:30-9:45	S9-2	Identification of a major QTL controlling onion bulb shape	Daisuke Sekine (Institute of Vegetable and Floriculture Science, NARO Division of Vegetable Breeding)
9:45-10:00	S9-3	Identification of candidate genes for the chemical components responsible for dark green coloration in bunching onions using QTL analysis	Tetsuya Nakajima (Yamaguchi University)
10:00-10:15	S9-4	Development of a QTL marker for quercetin glycoside content in onion	Satoshi Oku (Tohoku Agricultural Research Center, National Agriculture and Food Research Organization)

COFFEE BREAK

10:45-11:00	S9-5	Data-driven breeding of strawberries at the five breeding stations in Japan	Isobe Sachiko (Kazusa DNA Research Institute)
11:00-11:15	S9-6	Development of KASP marker for sex identification in garden asparagus	Caizhi Hao (Graduate School of Life Sciences, Tohoku University)
11:15-11:30	S9-7	A unique chiasmata formation observed in a certain type of <i>Allium</i> monosomic addition lines and estimation of its causal genes	Yusuke Shimomi (Yamaguchi University Graduate school of science and technology for innovation)
11:30-11:45	S9-8	DARkWIN: Pollinator-assisted plant natural selection and breeding under climate change pressure	Francisco Pérez-Alfocea (Dept. Plant Nutrition, CEBAS-CSIC, Murcia, Spain)

LUNCH BREAK

13:00-13:15	S9-9	Chromosome-scale genome assembly of an orphan plant species, <i>Malcolmia littorea</i> , by long-read and single-pollen sequencing technologies	Kenta Shirasawa (Kazusa DNA Research Institute)
13:15-13:30	S9-10	Polyploidy induction and identification in <i>Lilium</i> 'Siberia'	Ming Sun (Beijing Forestry University)

13:30-13:45	S9-11	Genetic diversity of marigold (<i>Tagetes patula</i> L.) mutant treated by induced mutation with gamma rays irradiation	Syarifah Iis Aisyah (IPB University)
13:45-14:00	S9-12	BoFLC1 homologs are candidate causal genes of the non-flowering cabbage mutant 'nfc'	Yu Kinoshita (Kyoto University)
14:00-14:15	S9-13	Map-based cloning of a dominant wax-deficient gene in cabbage	Jialei Ji (Institute of Vegetables and Flowers, Chinese Academy of Agricultural Sciences)
14:15-14:30	S9-14	Response mechanism analysis of pepper to low temperature and low light stresses in facilities	Huamao Wu (Institute of Vegetables and Flowers, Chinese Academy of Agricultural Sciences)

COFFEE BREAK

Hongo Venue (29, 30-Aug) Poster Presentation



P1-1	MARCO: a computer software for parentage inference using molecular markers	Hiroshi Fujii (Shizuoka University)
P1-2	Characteristics of yuzu(<i>Citrus junos</i> Sieb. ex Tanaka) genetic resources in Korea	Hyeon Ju Jeong (Fruit Research Institute of Jeollanamdo Agricultural Research and Extension Services)
P1-3	Identification of lemon cultivars and their relative species using CAPS markers	Namiki Maeda (Kyushu university)
P1-4	Fundamental Research for Induction of Mutants through Ion Beam Irradiation Using a New Grafting System in Citrus	Riki Shimada (Graduate School of Integrated Science and Technology, Shizuoka University)
P1-5	Inhibition of in vitro pollen tube growth in 'Hyuganatsu' (<i>Citrus tamurana</i> hort. ex Tanaka) by recombinant S15-RNase protein	Chitose Honsho (University of Miyazaki)
P1-6	A simulation-based analysis approach to uncover crucial genetic regions in apple breeding	Hideto Mochizuki (Graduate School of Agricultural and Life Science, The University of Tokyo)
P1-7	Development of a database program for managing genotype information and simulating segregation patterns of horticulturally important genes in apple	Shigeki Moriya (National Agriculture and Food Research Organization)
P1-8	Identification of candidate gene controlling cork formation on apple pericarp by using <i>Malus domestica</i> 'Gold farm' as a bud mutation variety of 'Fuji'	Eichi Inoue (College of Agriculture, Ibaraki University)
P1-9	MaxEnt modeling for predicting the possible climate change and impacts on the geographical distribution of <i>Pyrus pashia</i> in China	Cao Yufen (Research Institute of Pomology, Chinese Academy of Agricultural Sciences)
P1-10	The use of FPX and developmental genes to improve regeneration efficiency from leaf explants of European pear (<i>Pyrus communis</i> L.)	Feng Dai (Lab. of Pomology, Graduate School of Agriculture, Kyoto University)
P1-11	Phenotypic diversity of organic acids in <i>Prunus mume</i> cultivars and its contribution to sensory attributes	Takuya Morimoto (Kyoto Prefectural University)
P1-12	Quantification of the diverse temperature requirements for blooming in <i>Prunus mume</i> Japanese collection	Yuto Kitamura (Faculty of Agriculture, Setsunan University)

P1-13	Genomic analysis of the region including transcription factor PavMYB10.1 and development of DNA markers for yellow pericarp of sweet cherry	Kazuo Ikeda (Yamagata university)
P1-14	Research progress on resources and breeding of <i>Prunus mume</i>	Qi-Xiang Zhang (Beijing Forestry University)
P1-15	Investigation of the mechanism of male sterility in self-progeny of 'Shine Muscat'	Huan Zheng (Nanjing agriculture university)
P1-16	Flow cytometry-based method for determining ploidy using dormant buds of persimmon and related species	Tomoyuki Tsujimoto (Nara Prefecture Agricultural Research and Development Center)
P1-17	Genetic manipulation of the flowering suppressor gene to induce precocious flowering in persimmon (<i>Diospyros kaki</i>)	Chiho Iwami (Kyoto University, Graduate School of Agriculture, Pomology laboratory)
P1-18	Optimization of genotyping using dpMIG-seq in tetraploid blueberry	Kyoka Nagasaka (Kyoto University)
P1-19	Promotion of seed germination and evaluation of self-fruitfulness in <i>Rubus hirsutus</i>	Chihoko Tanaka (Kyushu University)
P1-20	Genetic resources of berry plants in Lithuania and breeding of the new cultivars	Remigijus Daubaras (Vytautas Magnus University)
P1-21	The impact of adding nanoparticles to the media to speed up the in vitro multiplication stage of banana explants	Pangesti Nugrahani (Agrotechnology Department, Universitas Pembangunan Nasional Veteran Jawa Timur)
P1-22	'Suhyang' : new strawberry cultivar from SRI, Republic of Korea	Inha Lee (-)
P1-23	Varietal differences in content of strawberry allergen Fra a 1.01 among Japanese cultivars	Masanori Tatei (Graduate School of Agricultural Science, Kobe University)
P1-24	Reduction of strawberry major allergen Fra a 1.01 by CRISPR/Cas9-based genome editing	Yuichi Uno (Graduate School of Agricultural Science, Kobe University)
P1-25	Effect of the CmCPR5 allele in the genetic background of Earl's Favourite Harukei 3	Akito Nashiki (University of Tsukuba)
P1-26	Development of a new winter squash cultivar 'Houchouko 1' that has short internodes and stable fruit position	Kaori Nakajima (NARO (The National Agriculture and Food Research Organization))
P1-27	Loss of function of CshLS1 increases the yield in cucumber	Tao Wu (Hunan Agricultural University, China)
P1-28	Performance of selected tropical pumpkin F1 hybrids developed by the World Vegetable Center in an observational yield trial in Thailand	Suwannee Laenoi (World Vegetable Center)

P1-29	Status of the global pumpkin breeding program of the World Vegetable Center and its relevance to African agriculture	Narinder Dhillon (World Vegetable Center)
P1-30	The effects of high-temperature stress on reproductive development in an F1 hybrid of <i>Capsicum chinense</i>	Akira Yamazaki (Kindai University)
P1-31	Remapping the precise genomic positions of two loci (Shq13 and Shq17) associated with the reduction of pungency in chili pepper (<i>Capsicum annuum</i>)	Fumiya Kondo (Shinshu university)
P1-32	Gene expression analysis related to the incidence of blossom-end rot in tomato introgression line	Nozomu Kobayashi (Utsunomiya University)
P1-33	Effect of apple fruit crinkle viroid infection on plant growth and fruit quality of a medium-size tomato cultivar 'Frutica'	Yuri Yasuda (Yamagata University)
P1-34	Development of a male-sterile line of eggplant utilizing the cytoplasm of <i>Solanum aethiopicum</i> Gilo group	Md MizanurRahim Khan (Faculty of Agriculture, University of the Ryukyus)
P1-35	Integrative transcriptome, proteome, and microRNA analysis provides insights into the pollen abortion mechanism of male sterility in Wucai (<i>Brassica campestris</i> L.)	Guo-Hu Chen (Anhui Agricultural University)
P1-36	Germplasm Innovation by Interspecific Hybridization of <i>Raphanus raphanistrum</i> and <i>R. sativus</i>	Haiping Wang (Institute of Vegetables and Flowers, Chinese Academy of Agricultural Sciences)
P1-37	Selection of cross combinations based on predicted breeding value of later generations: application to mating scheme using multiple F3 populations of red perilla	Sei Kinoshita (Graduate School of Agricultural and Life Sciences, The University of Tokyo)
P1-38	Bulked sequence analysis identifies two loci controlling anthocyanin accumulation in a red-purple cultivar of Japanese leaf vegetable komatsuna (<i>Brassica rapa</i> L.)	Shinji Mizuno (Nihon University)
P1-39	QTL analysis of earliness traits in onion	Hikaru Tsukazaki (Tohoku Agricultural Research Center, NARO)
P1-40	Embryo age and culture medium determine the efficacy of embryo rescue in hybridizations between <i>Crossostephium chinense</i> (L.) makino and <i>Chrysanthemum</i> spp	Tangchun Zheng (Beijing Forestry University)
P1-41	Stepwise improvement of flower color by synchrotron-light re-irradiation in pink-flowered standard chrysanthemum	Kenichiro Sakamoto (Saga Pref. Agriculture Research Center)
P1-42	Investigation of cotyledon unfolding rate by Fe ion beam irradiation to the seeds of <i>Eustoma grandiflorum</i>	Daiki Mizuta (NIHON UNIVESITY, College of Bioresource Sciences)

P1-43	Analysis of a narrow petal mutant in <i>Matthiola incana</i> (L.) R. Br generated using ion beams	Chiya Fujita (Graduate School of Integrated Science and Technology, Shizuoka University)
P1-44	Effect of ion beam irradiation on mutagenesis efficiency of <i>Matthiola incana</i> varieties	Rio Takahashi (Graduate School of Integrated Science and Technology, Shizuoka University)
P1-45	Effects of five types of ion beam irradiation on the dry seeds of <i>Gerbera Hybrida</i>	Akiyoshi Tominaga (Shizuoka University)
P1-46	Analysis of marimo-like morphology in <i>Gerbera hybrida</i>	Taro Hattori (Graduate School of Integrated Science and Technology, Shizuoka University)
P1-47	Inheritance of corolla color and size in <i>Catharanthus roseus</i>	Sheng-Wen Chen (National Taiwan University)
P1-48	A comparative growth and anatomical study on diploid, triploid, and tetraploid <i>Angelonia angustifolia</i> genotypes under drought conditions	Yun Shan Tsai (National Taiwan University)
P1-49	Cytological analysis and ribosomal genes mapping via fluorescence in situ hybridization (FISH) of <i>Lilium</i> from diverse geographical locations	Yun-Jae Ahn (Department of Horticultural Science, Kyungpook National University)
P1-50	Genetic contribution of <i>Rhododendron scabrum</i> G. Don to the development of large flower azalea cultivars	Nobuo Kobayashi (Shimane University)
P1-51	Juvenile flowering of seedlings from Japanese flowering cherry 'Wakaki-no-sakura' (<i>Cerasus jamasakura</i> var. <i>jamasakura</i> 'Humilis')	Tomoya Esumi (Shimane University)
P1-52	Unique ornamental strawberry cultivar 'MS1615-01' with fully double flowers	Yuji Noguchi (NIVFS, NARO)
P1-53	Genome-wide analysis of HSF family transcription factors and their responses to heat stress in <i>Rosa chinensis</i>	Wen Xing (Central South University of Forestry and Technology)
P1-54	Plant regeneration from leaf segments using a seed propagation type of carnation (<i>Dianthus caryophyllus</i> L.)	Zhongjian Li (Graduate School of Agricultural Science, Kobe University)
P1-55	Optimization of protoplast regeneration conditions using response surface methodology (RSM) from embryogenic callus in <i>Angelica gigas</i> Nakai	Han-Sol Lee (Chungbuk national university, Republic of Korea)
P1-56	Genetic analysis of leaf and stem color in vegetable amaranth (<i>Amaranthus tricolor</i> L.)	Hina Okubo (the university of Tsukuba)
P1-57	Efficient <i>Agrobacterium</i> -mediated genetic transformation of sweetpotato	Kedong Da (North Carolina State University)

P1-58	The role of tobacco (<i>Nicotiana benthamiana</i>) nbe-miR169 under drought stress	Jine-Yan Wang (National Taiwan University)
P1-59	Analysis of changes in quality attributes of hardy kiwi (<i>Actinidia arguta</i>) by ethylene treatment	Hyun Ji Eo (National Institute of Forest Science)
P1-60	Improvement of the quality characteristics of hardy kiwi (<i>Actinidia arguta</i>) by calcium chloride pretreatment	Yonghyun Kim (National Institute of Forest Science)
P1-61	Effect of storage temperature and 1-MCP treatment on fruit ripening in Japanese apricot fruit (<i>Prunus mume</i>)	Chikara Yano (Graduate School of Environmental and Life Science, Okayama University)
P1-62	Aloe vera and chitosan-based edible coatings - a sustainable approach to increase the shelf life of Figs (<i>Ficus carica</i>)	Zienab Ahmed (Integrative Agriculture Department, UAE University)
P1-63	Effect of storage temperature, MA packaging and packaging in perforated polyethylene bag on occurrences of chilling injury and juice sac-granulation in three new pomelo cultivars	Ryohei Nakano (Kyoto University)
P1-64	Wrapping materials and their effect on postharvest performance of lemon 'Femminello Siracusano'	Ziaurrahman Hejazi (Interdisciplinary Graduate school of Agriculture and Engineering, University of Miyazaki)
P1-65	Irradiation as a quarantine treatment on the quality and sensory evaluation of Thai pomelo cv. Thong Dee (<i>Citrus maxima</i> (Burm.) Merr.) during storage	Peerasak Chaiprasart (Naresuan University)
P1-66	Changes in ursolic acid and individual anthocyanins in the skin of blueberries during developmental stages and postharvest storage	Chau Thi Thu Nguyen (Center for Food and Bioconvergence, Seoul National University)
P1-67	Characterization of Japanese consumer's preference for sweetness and sourness of blueberry	Naoki Hiraiwa (Graduate School of Agriculture, Kyoto University)
P1-68	Effect of high-voltage cold storage on the storability of fresh 'Heritage' raspberries	Hiroyuki Imanishi (Akita Prefectural University)
P1-69	Efficacy of ethanol vapor releasing pad to maintain the quality of fresh cut mango during display	Panida Boonyarittongchai (King Mongkut's University of Technology Thonburi)
P1-70	Harvest time and postharvest ripening of Taiwanese avocado cultivars	Steve Tsai (-)
P1-71	Developing non-destructive 3D reconstruction method for avocado ripening prediction: preliminary results	Akane Kusumi (-)
P1-72	Changes in volatile compounds in edible outer and inner leaves of cabbage during processing	Yuka Mori (Nissui Corporation, Central Research Laboratory)

P1-73	Effect of broccoli head enlargement on post-harvest yellowing and its differences among cultivars	Manato Ohishi (The Institute of Vegetable and Floriculture Science, NARO)
P1-74	Establishment of an objective evaluation method for mealy texture in tomato fruits	Keigo Seki (Graduate School of Bioresource Sciences, Nihon University)
P1-75	The quality of paprika (<i>Capsicum annuum</i> L.) by temperature changes on the simulated export condition	Mi-Ryung Kim (Silla University)
P1-76	Influence of gibberellic acid on leaf abscission and quality of sweet basil	Prakaidao Yingsanga (Faculty of Science and Technology, Phranakhon Rajabhat University)
P1-77	Storage temperature and packaging for seablite (<i>Suaeda maritima</i> L.)	Prakaidao Yingsanga (Faculty of Science and Technology, Phranakhon Rajabhat University)
P1-78	Enzymatic browning inhibition of pomegranate extract incorporated in liposome encapsulated on fresh cut yacon tuber	Racha Tepsorn (Department of Food Science and Technology, Faculty of Science and Technology, Thammasat University)
P1-79	Effect of water supply material volume and leaf area during transportation on the quality of cut dahlia flowers	Naoki Tsujimoto (Nara Prefecture Agricultural Research and Development Center)
P1-80	Development of new dahlia cultivars, 'Eternity Peach' and 'Eternity Shine' with long vase life	Takashi Onozaki (Institute of Vegetable and Floriculture Science, NARO)
P1-81	Identification of NAC transcription factors regulating flower senescence in dahlia and their response to ethylene treatment	Yumeno Nishio (Graduate school of Bioresource Sciences, Nihon University)
P1-82	Gibberellic acid spray improves post-storage quality and extends vase life of kalanchoe cut flowers	Fang-Chu Lin (National Taiwan University)
P1-83	Calcium carbonate delay the senescence of cut waterlily flowers	Intira Lichanporn (-)
P1-84	Flames treatment and bactericide-added citric acid solution improve <i>Oxypetalum coeruleum</i> cut stems water uptake and postharvest quality	Yen-Hua Chen (Taichung district of agricultural research and extension station, COA, Taiwan)
P1-85	Effect of pre- and postharvest LEDs treatments on physio-biochemical properties of roselle (<i>Hibiscus sabdariffa</i> L.) microgreens: A preliminary study	Varit Srilaong (School of Bioresources and Technology, King Mongkut's University of Technology Thonburi)
P1-86	Effects of cold storage and ethylene exposure on postharvest characteristics of cut Vanda	Yang Yang (Tainan Agriculture reserch station)
P1-87	Effects of 1-naphthaleneacetic acid and methyl jasmonate on the flower opening of cut rose flowers	Kanta Hamada (Chubu University)

P1-88	Epigenetic change by paper bagging treatment induced anthocyanin biosynthesis in the non-red apple cultivars	Naritsara Yatin (Chiba University)
P1-89	Anthocyanin accumulation in the flesh of 'Ruby Sweet' and 'Rose Pearl' apples during cold storage	Chikako Honda (The University of Tokyo)
P1-90	Varietal characteristics of ester synthesis in apple	Fukuyo Tanaka (Research Center for Advanced Analysis, National Agriculture and Food Research Organization)
P1-91	Transcriptome analysis for 'Ruby-Roman' grapes grafted on diploid and tetraploid rootstocks	Mei Takai (Ishikawa Prefectural University)
P1-92	Foliar application of abscisic acid changed the volatile aroma content of 'Shine Muscat' grape berries	Takanori Saito (Chiba University)
P1-93	Mechanism for methyl jasmonate mediated alleviation of peach fruit aroma loss caused by cold storage	Wenyi Duan (Zhengzhou Fruit Research Institute, CAAS)
P1-94	Changes in carotenoid accumulation and the expression of carotenoid metabolic genes during the granulation process in different sizes of 'Harumi' fruit	Zhiwei Deng (Shizuoka University)
P1-95	Effect of methyl jasmonate on the coloration of Satsuma mandarin fruit	Masato Ikeya (Shizuoka University)
P1-96	Accumulation of 9-cis-Violaxanthin esters and expression of xanthophyll esterase genes in Valencia orange during the regreening process	Mika Kato (Shizuoka University)
P1-97	Accumulation of flavonoid and expression of flavonoid biosynthetic genes in citrus fruit during maturation	Saki Mitsukawa (Shizuoka University)
P1-98	Isolation and expression analysis of two novel chalcone synthase genes in different varieties of citrus fruit during maturation	Chisato Torimoto (Shizuoka University)
P1-99	Functional compounds and optimum extraction of Robusta and Arabica coffee cultivated in Korea	Ae Eun Im (Chonnam National University)
P1-100	Comparison of extraction methods for Zanthoxylum schinifolium seed oil: aspects of quality characteristics and bioactivities	Hamin Lee (chungbuk national university)
P1-101	Location planting on the quality and antioxidants of bananas "namwa" produced in northeastern Thailand	Supatchaya Nampila (Department of Horticulture, Faculty of Agriculture, Khon Kaen University)
P1-102	Application of DNA markers for anthocyanin coloration trait in red-rooted radish breeding lines	Akira Nakatsuka (Shimane University)
P1-103	Genome-wide identification of R2R3-MYB transcription factor gene family and promoter analysis of FnMYB11 reveal regulation of flavonoid biosynthesis in Fragaria nilgerrensis	Hsuan-Han Lu (National Taiwan University)

P1-104	Comparison of the contents of free and glycosylated aroma volatiles in tomato cultivars	Koki Hirasada (Graduate School of Bioresource Sciences, Nihon University)
P1-105	Histochemical studies of aroma components in fruits of wild tomato species native to the Peruvian Andes and the Galapagos Islands	Toshihito Tabuchi (Tamagawa University)
P1-106	Effect of environmental factors, growth traits, and chlorophyll a fluorescence OJIP transients on lutein content of spinach (<i>spinacia oleracea</i>) for frozen processing	Takeshi Nakamura (Upland Crop and Horticulture Branch Miyazaki Agricultural Research Institute)
P1-107	Quantification of bioactive compounds using UV-reflected images of kale leaves	Ji-Seon An (Chungbuk National University)
P1-108	Comparison of the phenolic content, rutin content, anti-cancer cell viability, and lipid accumulation in four asparagus (<i>Asparagus officinalis</i>) cultivars	Yang Gyu Ku (Department of Horticulture Industry, Wonkwang University)
P1-109	Molecular analysis of white-flowered mutant in fragrant cyclamen	Akira Watanabe (Saitama Institute of Technology)
P1-110	Molecular analysis of flavonol biosynthetic genes in two white flowered cyclamens	Riho Mikami (Saitama Institute of Technology)
P1-111	Inheritance of peonidin 3-O-neohesperidoside synthesis in the petals of cyclamen	Takejiro Takamura (Faculty of Agriculture, Kagawa University)
P1-112	Factors affecting the formation of anthocyanic vacuolar inclusions involved in the blackish flower colour of <i>Catharanthus roseus</i> and their mode of inheritance	Ayumi Deguchi (Chiba University)
P1-113	Formation of anthocyanic vacuolar inclusions contributes to the unique flower colour antique red in dahlia	Yuka Shinomiya (Chiba University)
P1-114	Expression analysis of the genes involved in the high flavone accumulation in dahlia ray florets	Koji Naito (Okayama University)
P1-115	Analysis of vein-coloring star pattern formation in petunia flowers	Nagisa Okuda (Kyoto university)
P1-116	Expression analysis of anthocyanin biosynthesis-related genes in bicolor echinacea, 'Pink eye'	Yusuke Akita (Saitama Institute of Technology)
P1-117	Functional analysis of flavonoid 3',5'-hydroxylase gene using transgenic Japanese morning glory (<i>Ipomoea nil</i>)	Ton Phuc Huynh (-)
P1-118	Identification of an R2R3-MYB gene involved in tepal background colour formation in <i>Tricyrtis</i> sp	Masahiro Otani (Faculty of Agriculture, Niigata University)
P1-119	Spatial expression of two MYB transcription factor transcripts generated by alternative splicing in <i>Saintpaulia</i> white striped petals	Daichi Kurata (Kin-dai University Graduate school of agriculture)

P1-120	Possible role of flavonols in the pale-yellow color expression of <i>Ranunculus</i> cultivar flowers	Qi Qin (Ibaraki University)
P1-121	Analysis of floral scent components of roses with unpleasant odor	Naomi Oyama-Okubo (Institute of Vegetable and Floricultural Science, NARO)
P1-122	Fragrance release tissue and structure in rose by histochemistry	Chao Yu (Beijing Forestry University)
P1-123	Comparison of the scent components emitted from lotus (<i>Nelumbo nucifera</i>) and American lotus (<i>N. lutea</i>) flowers	Yusei Ishikawa (The University of Tokyo)
P1-124	Quantification of flowering stage and analysis of volatile organic compounds in the flowers of <i>Brunfelsia australis</i>	Mina Koike (Graduate School of Science and Technology, University of Tsukuba)
P1-125	Antioxidant activity of <i>Amsonia elliptica</i> according to extraction solvents and drying methods	Kichan Kim (Chungbuk National University)
P1-126	Changes in physiological activities and metabolism of Koeran dandelion (<i>Taraxacum coreanum</i>) response to pre-harvest low-temperature treatment	Min-Ji Kang (Gyeongsang National University)
P1-127	Influence of sucrose concentration on in vitro culture of <i>lobelia chinensis</i> in bioreactors and assessment of phenolics content and antioxidant activities	Xinlei Bai (Chungbuk National University)
P1-128	Crude polysaccharides from orchid pseudobulbs modified the in vitro development of <i>Dendrobium cretaceum</i> and its antioxidant activity	Kullanart Obsuwan (-)
P1-129	An analysis of the levels of bioactive components and antioxidant activity in several <i>Dendrobium</i> Khao Sanan sections taken at various developmental stages	Sarunyaporn Maksup (-)
P1-130	Phenolic compound and amino acid analysis reveals embryogenic callus produce functional substance during somatic embryogenesis in ginseng and carrot	Jong-Eun Han (Chungbuk National University)
P1-131	Comparison of bioactivities according to harvesting time and parts of <i>Fallopia sachalinensis</i>	Yu-Jin Kim (Chungbuk national university)
P1-132	Uncovering genetic factors underlying anthracnose resistance in apple through genome-wide association study	Young Soon Kwon (Apple Research Institute, NIHHS, RDA)
P1-133	An integrated HLB tolerant rootstock evaluation program for Australia and Indonesia	Tahir Khurshid (New South Wales Department of Primary Industries)
P1-134	Resin canal discoloration of mango fruit: impact of sanitizer, harvest time and presence of fruit peduncle at harvest	Constancio Asis (Northern Territory Department of Industry, Tourism and Trade)

P1-135	UV-C radiation on disease control quality and antioxidants in "Nam Dok Mai Sithong" mangoes during storage at low temperatures	Nattakan Phannakham (Khon Kaen University)
P1-136	To establish the evaluation indicators of microbial community from healthy soil for banana	Ling Yi Guo (Taiwan Agricultural Research Institute)
P1-137	Growth promotion and disease tolerance in strawberry plants with plasma-activated Ringer's lactate solution	Kaori Sakai (Graduate school of Natural Science and Technology, Gifu University)
P1-138	Occurrence pattern of diseases and pests in strawberry greenhouse during harvest period	Han-na Park (Strawberry Research institute)
P1-139	The recent occurrence pattern of diseases and pests in strawberry greenhouse at chungnam province, South Korea during nursery period	Je Hyeok Yoo (Strawberry Research Institute, Chungnam ARES)
P1-140	Progress in the development of anthracnose resistant F1 hybrid strawberries using self-pollinated parental lines generated by the recurrent selection	Marina Ogura (National agricultural research organization)
P1-141	Development of recombinant vaccines to protect cucurbit crops from distinct insect-borne viruses	Chian-Chi Lin (Department of Medical Laboratory Science and Biotechnology, Asia University)
P1-142	Analysis of fungal effector EPC1 involved in virulence of Colletotrichum orbiculare, causal agent of cucurbits anthracnose	Ren Ujimatsu (University of Tokyo)
P1-143	Evaluation of Cucumis zambianus as a genetic resource for fusarium wilt resistance in melon	Miyu Yamaga (Graduate School of Agriculture, Saga university)
P1-144	Identification of novel loci for high-virulent anthracnose resistance in Cucumis sativus L	Fauziatul Fitriyah (Graduate School of Life and Earth Sciences, University of Tsukuba)
P1-145	Fine mapping and candidate gene analysis of gummy stem blight resistance in cucumber	Shengping Zhang (Chinese Academy of Agricultural Sciences, Institute of Vegetables and Flowers)
P1-146	Development of melon F1 hybrids with resistance to Cucurbit chlorotic yellow virus	Yoichi Kawazu (Institute of Vegetable and Floriculture Science, NARO)
P1-147	Evaluation of Cucurbita germplasm for resistance to multiple viruses (Poty and Gemini viruses)	Supornpun Srimat (World Vegetable Center East and Southeast Asia Research and Training Station)
P1-148	Screening of Cucurbita pepo germplasm for resistance to Fusarium wilt	Aejin Hwang (National Agrobiodiversity Center, Rural Development Administration (RDA))

P1-149	Identification of R-gene Linked with Bacterial Fruit Blotch Resistance in Watermelon through RT-PCR Gene Expression Analysis	Sanha Choe (-)
P1-150	Development of an attenuated vaccine to protect tomato crops from pepper veinal mottle virus, an aphid-borne potyvirus	Tsung-Chi Chen (Department of Medical Laboratory Science and Biotechnology, Asia University)
P1-151	Evaluation of processing tomato resistance Tomato yellow leaf curl virus (TYLCV) and detecting Ty-2 and Ty-3 resistance genes with SCAR-markers	Siriporn Earsakul (Khon kaen university)
P1-152	Development of real-time PCR methods for the detection and quantitation of pepper mottle virus	Hae Min Lee (Seoul women`s university)
P1-153	Suppressing effects of paper pot transplantation and sulfur material application on the southern blight of Jerusalem artichoke	Yuichi Matsumoto (Faculty of Agriculture, Saga University)
P1-154	Evaluation of chili (<i>Capsicum annum</i> L.) progressive lines for resistance against <i>Colletotrichum capsici</i> and <i>Colletotrichum gloeosporioides</i>	Tanyarat Tarinta (Department of Horticulture, Faculty of Agriculture, Khon Kaen University)
P1-155	New Chinese cabbage cultivar 'Saiten Neo 70' reduces the risk of clubroot disease	Keita Nishimura (Kobe University, Graduate School of Agricultural Science)
P1-156	Screening cabbage cultivars resistant to <i>Fusarium wilt</i> in taiwan using molecular markers	Gi Ching Koh (National Taiwan University)
P1-157	Development of race-specific molecular markers for <i>Xanthomonas campestris</i> pv. <i>campestris</i> races, the pathogen of black rot disease of Brassica crops	Sopheap Mao (-)
P1-158	Genetic breeding of a new edamame line E17-10 with soybean tambaguro to inculcate resistance against soybean mosaic virus	Ippei Naito (Kyoto Prefectural Agriculture, Forestry and Fisheries Technology Centre)
P1-159	The effect of using different microbial sources on root disease in organic hydroponic system	Kaori Kikuchi (Miyagi University School of Food Industrial Sciences)
P1-160	Evaluation of African landraces of okra for fruit traits and resistance to begomoviruses at a virus hotspot in Thailand	Suyuporn Lertlam (World Vegetable Center)
P1-161	<i>Albugo candida</i> inoculation has different effects on DNA methylation in resistant and susceptible accessions of komatsuna	Yoshiki Kamiya (Kobe University)
P1-162	Loop-mediated isothermal amplification for the early diagnosis of a downy mildew pathogen, <i>Peronospora destructor</i> , in infected onion tissues and soils	Hyeon-Jun Seong (Department of integrative food, bioscience and biotechnology, Chonnam national university)

P1-163	Visual tracking of infection dynamics of two plant RNA viruses prevalent in horticultural crops	Jang-Kyun Seo (Seoul National University)
P1-164	Individual differences in disease progression of rose crown gall disease in a cross population between tetraploid <i>Rosa multiflora</i> and R. 'PEKcougel'	Masaki Ochiai (Gifu university)
P1-165	PCR-SSCP analysis of root rot and growth promotion with secondary metabolite changes through AMF symbiosis in medicinal <i>Platycodon grandifloras</i>	Xinyi Qin (Graduate School of Natural Science and Technology, Gifu University)
P1-166	Evaluation of <i>Bacillus</i> spp. for biological control of <i>Fusarium</i> stem rot in <i>Anoectochilus formosanus</i> Hayata	Chen Chen (Taiwan Sugar Research Institute, Taiwan Sugar Corporation)
P1-167	Investigation of virus infection in sweet potatoes grown in South Korea	Jae Suk Lee (Seoul Women's University)
P1-168	Detection of tea leaves diseases using the Orange 3 program	Young Yeol Cho (Jeju National University)
P1-169	Effects of seedless treatments on seed formation in 'Shine Muscat' grape berries	Masashi Nakayama (Graduate School of Agricultural and Life Sciences, The University of Tokyo)
P1-170	Trehalose and forchlorfenuron reduced the time required for picking berries but not bunch quality in the hybrid grape <i>Vitis labrusca</i> × <i>V. vinifera</i> 'Shine Muscat'	Naoko Kitamoto (Akita Prefectural University)
P1-171	Function of grape <i>VvSAUR50</i> , an early auxin-responsive gene, as plant growth regulator	Norika Mikami (University of Yamanashi)
P1-172	<i>VvCYP90D1</i> from Japanese indigenous grape "Koshu" regulates plant growth mediated by brassinosteroid biosynthesis	Shinichi Enoki (University of Yamanashi)
P1-173	Searching cold hardiness related genes through differentially expressed gene (DEG) analysis in grape canes during cold acclimation and deacclimation	Sung Hoon Jun (Seoul National University)
P1-174	Isoprothiolane regulates endogenous abscisic acid and indole-3-acetic acid during grape berry maturation	Hiroyuki Tomiyama (Tokyo University of Agriculture)
P1-175	Changes in internal structure and cell wall polysaccharides of 'Hakuho' fruits during ripening	Megumi Ishimaru (Kindai University)
P1-176	Multi-year comparison of normal and split-pit peach quality	Takashi Kawai (Graduate School of Environmental and Life Science, Okayama University)
P1-177	"Sodium alginate + CaCl ₂ " can be a countermeasure to prevent frost damage by delaying flowering of peach trees	Yeonju Park (Department of GreenBio Science, Gyeongsang National University)
P1-178	Assessing the effects of high temperature on physiological disorders in peach fruit (<i>Prunus persica</i> L.)	Jin Gook Kim (Gyeongsang National University)

P1-179	Identification and comparative analysis of the Rosaceae RCI2 gene family and characterization of the cold stress response in <i>Prunus mume</i>	Jia Wang (Beijing Forestry University)
P1-180	Expression analysis of bud dormancy-related genes in flower buds of an early flowering bud-sport mutant derived from Japanese apricot 'Nanko'	Miku Sugimori (Graduate School of Agriculture, Kyoto-University)
P1-181	Gibberellic acid modulates the expression of flowering-related genes and the flower bud rate in apple (<i>Malus domestica</i>)	Rei Sawai (Akita Prefectural University)
P1-182	Analysis of candidate genes in the quantitative trait loci region for adventitious rooting in apple rootstocks	Ryota Moritani (Tohoku University)
P1-183	The involvement of SQUAMOSA PROMOTER-BINDING-PROTEIN-LIKE (SPL) homologs in juvenility and flowering in <i>Malus domestica</i>	Miyu Osada (Tohoku university)
P1-184	Typing and distribution of the SFBB alleles encoding in four S-haplotypes of European pear (<i>Pyrus communis</i> L.)	Kohta Tadokoro (Kobe University)
P1-185	Effect of controlling light intensity and chemical sunscreen treatments for preventing sunburn damage in 'Fuyu' sweet persimmon	Yunji Shin (Department of GreenBio Science, Gyeongsang National University, Korea)
P1-186	Rooting of softwood cuttings of 'Porotan' Japanese chestnut	Takuya Tetsumura (Faculty of Agriculture, University of Miyazaki)
P1-187	Gene expression and DNA methylation profiles of nucellar embryo initiation cells reveal key genes controlling citrus nucellar embryogenesis	Huihui Jia (Huazhong Agricultural University, College of Horticulture and Forestry Sciences)
P1-188	Comparative analysis of physicochemical properties, free sugars, and flavonoids of green yuzu and yellow yuzu	Hyeon-Jun Seong (Department of integrative food, bioscience and biotechnology, Chonnam national university)
P1-189	Neuroprotective function of 3 cultivars of Korean cultivated yuzu (<i>Citrus junos</i> Sieb.)	Bo Bae Lee (fruit research institute of jeollanamdo agricultural reseach and extension services)
P1-190	Effects of soil water content and light intensity on physiological responses and mineral absorption in passion fruit	Zenya Arisawa (Graduate School of Ariculture, Kyoto University)
P1-191	The natural flowering inhibition of Aminoethoxyvinylglycine application with different schedules for pineapple autumn fruit production in Taiwan	Shih-Huang Huang (Tainan District Agricultural Research and Extension Station)

P1-192	Effects of gibberellin inhibitors on flowering and panicle growth characteristics of juvenile mango 'Irwin'	Jinwook Kim (Department of GreenBio Science, Gyeongsang National University)
P1-193	Photosynthetic pattern regulation in response to the strength of mannitol-induced water drought/recovery cycle in the micropropagules of red-fleshed pitaya (<i>Hylocereus polyrhizus</i>), a CAM plant	Yu-Chi Lee (National Chung Hsing University)
P1-194	Evaluation of inflorescence structure and its relationship with the floret sex ratio and fruit retention distribution in 'Yu Her Pau' litchi (<i>Litchi chinensis</i> Sonn.)	Yu-Chi Lee (National Chung Hsing University)
P1-195	The effects of fruit load and low temperature on mineral nutrition and gene expression in tomato	Yuko Ogo (National Agriculture and Food Research Organization)
P1-196	Physiological disorder of boron deficiency in tomato	Katsumi Suzuki (Shizuoka University)
P1-197	Analysis of regulatory mechanisms of cell wall construction during fruit morphological changes under calcium deficiency conditions in tomato (<i>Solanum lycopersicum</i>) cv. 'Micro Tom'	Kiei Soyama (University of Tsukuba)
P1-198	Analysis of calcium localization in tomato fruit using genetically encoded calcium indicators	Ryunosuke Harada (Tohoku University)
P1-199	Effect of parthenocarpy and fruit development on the occurrence of severe microcracking fruit in cherry tomato	Ryosuke Hosoi (The United Graduate School of Agricultural Sciences-Iwate University)
P1-200	Tomato SIWRKY54, its functions and role in abiotic stresses	Eman Shalaby (The University of Tokyo)
P1-201	Genome-wide Identification of PCP Gene Family and Functional Analysis of BcOlnB1 in Wucai (<i>Brassica campestris</i>)	Guo-Hu Chen (Anhui Agricultural University)
P1-202	Role of FLOWERING LOCUS C 5 as a floral repressor in <i>Brassica rapa</i> L	Kohei Kunita (Kobe University)
P1-203	Analysis of scion factors responsible for the variability of floral induction in cabbage/radish inter-generic grafting	Rise Morimoto (Kyoto University)
P1-204	Transient salinity stress promotes total glucosinolate contents in Brassicaceae plants	Jiwon Bae (Chungnam national university)
P1-205	Using radiation thermography to evaluate high temperature stress in cauliflower	Chiao Ling Hsiao (Taiwan Agricultural Research Institute)
P1-206	Comparison of the histone modification H3 lysine 27 tri-methylation states between accessions in Chinese cabbage	Saaya Shiraki (Graduate school of Agricultural Science, Kobe University)

P1-207	Effect of temperature on fruit development and sugar composition in everbearing strawberry cultivars	Manabu Nishiyama (Graduate School of Agricultural Science, Tohoku University)
P1-208	Effects of air and root zone temperature on distribution of ¹³ C-photosynthates in asparagus plants	Shin-ichi Watanabe (Kyushu Okinawa Agricultural Research Center, NARO)
P1-209	Differential response and sensitivity to exogenous ethylene of flowers of two Vanda hybrids - 'Sansai Blue' and 'Kanun Blue'	Mantana Buanong (King Mongkut's University of Technology Thonburi)
P1-210	Factors affecting organogenesis of terrestrial Cymbidium species in vitro	Kazuhiko Shimasaki (Faculty of Agriculture and Marine Science, Kochi University)
P1-211	Cytogenetic Analyses provide insights into the pollen sterility of the triploid orchid, Phalaenopsis Queen Beer 'Mantefon'	Yoon-Jung Hwang (Sahmyook University)
P1-212	Differential expression of three AGL6-like MADS-box genes in Habenaria orchid	Akira Kanno (Graduate School of Life Sciences, Tohoku University)
P1-213	The effects of temperature during storage and incubation on the germination of seeds of dahlia (<i>Dahlia variabilis</i>)	Nay Lin Oo (-)
P1-214	Expression analysis of genes involved in the occurrence of open centers in <i>Dahlia variabilis</i> under high temperature condition	Rin Ogawa (Okayama University)
P1-215	Molecular understanding of temperature-dependent flowering regulation in Chrysanthemums	Kavya Jayanthan (The University of Tokyo)
P1-216	A review of the comparative embryology of Asteraceae	Thanatcha Chauphaeng (Shizuoka University)
P1-217	Effects of temperatures on seed germination and initial growth of seedlings in <i>Wisteria floribunda</i>	Yuki Mizunoe (Kyushu University)
P1-218	Male fertility in <i>Wisteria</i> cultivars	Sadasue Shunsuke (Kyushu University)
P1-219	Expression analysis of the genes involved in the differentiation of sclerified parenchyma cells in <i>hydrangea</i> decorative sepals	Yuki Uchida (okayamauniversity)
P1-220	Overexpression of two MADS-Box genes from <i>Lagerstroemia speciosa</i> causes early flowering and affects floral organ development in <i>Arabidopsis</i>	Tangren Cheng (Beijing Forestry University)
P1-221	Effect of bulbs size and gibberellic Acid (GA3) on growth and flowering of <i>Eucomis</i>	Chaiartid Inkham (Chiang Mai University)

P1-222	Characteristics of the <i>Iris ensata</i> var. <i>spontanea</i> native to the Tanesashi Coast, Japan: Focusing on the salt tolerance	Mitsuho Nakagomi (Graduate School of Integrated Science and Technology, Shizuoka University)
P1-223	Analysis of reversible flower color change in <i>Phlox paniculata</i> cultivars	Seishiro Yamada (Chiba university)
P1-224	Study for the floral organs contributes for the tepal expansion of lilies	Yoshikuni Kitamura (Graduate school of Okayama University)
P1-225	Classification of morphophysiological dormancy levels in two <i>Ranunculus</i> species native to Korea	Soyeon Park (Chungbuk National University)
P1-226	Vernalization characteristics in <i>Lavandula × intermedia</i>	Mirai Azuma (College of Bioresource Sciences, Nihon University)
P1-227	Effect of light quality of long-day treatments on flowering and molecular mechanism in <i>Delphinium</i>	Nono Sugawara (Graduate School of Agricultural Science, Tohoku University)
P1-228	Isolation and expression analysis of LEAFY- and TERMINAL FLOWER 1-like genes from two <i>Tricyrtis</i> spp. showing different inflorescence architectures	Sota Takanashi (Graduate School of Science and Technology, Niigata University)
P1-229	A TOE-type gene is a strong candidate for the dominant double-flower trait in <i>Petunia</i>	Tong Xie (-)
P1-230	Identification of the AP2 gene family and expression analysis of a PET gene involved in double flower formation in carnation	Taro Harada (Faculty of Education, Okayama University)
P1-231	Functional characterization of DcFT1, an ortholog for the flowering locus T gene in carnation (<i>Dianthus caryophyllus</i> L.)	Masafumi Yagi (Institute of Vegetable and Floriculture Science, NARO)
P1-232	Chilling acclimation of <i>Saintpaulia</i> by a short period of sublethal temperature pretreatment	Munetaka Hosokawa (Kindai University)
P1-233	A comprehensive transcriptome-based characterization of genes involved in floral organ formation, thermogenesis, and growth phase transition in <i>Nelumbo nucifera</i>	Misaki Inoue (University of Tokyo)
P1-234	<i>Arabidopsis</i> TCP3 chimeric repressor affects the expression of MADS-box genes of <i>Torenia fournieri</i> L.	Takako Narumi-Kawasaki (Faculty of Agriculture, Kagawa University)
P1-235	Large amounts of calcium oxalate crystals accumulate in epidermis of Edible cactus (<i>Nopalea cochenillifera</i>)	Takanori Horibe (Chubu University)
P1-236	Promotion of rooting and growth with the changes in functional metabolites in mycorrhizal tea plants	Yunfan Zhang (Graduate school of Natural Science and Technology, Gifu University)

P1-237 Effect of BA and IBA on micropropagation of cannabis *Cannabis sativa* "Hang Kra Rog"

Pornjarus Singhavorachai (King Mongkut's Institute of
Technology Ladkrabang)

Yayoi Venue (29, 30-Aug) Poster Presentation



P2-1	A preliminary study on image-based grading of apples harvested in the Southern region of Nagano Prefecture, Japan	Yutaro Osako (Shinshu University)
P2-2	Effects of exogenous application of soluble sugars on low-temperature stress in apple trees during the flowering period	So Hui Gu (-)
P2-3	Development of technology for vitalizing orchard management using drones	Jin Hyang Son (Gyeongsangnam-do Agricultural Research & Extension Services The Institute of Apple Utilization)
P2-4	Effect of cuneate treatment and girdling of Japanese pear 'Kosui' in the Joint V-shaped trellis on shoot generation	Daiki Hanai (Graduate School of Integrated Science and Technology, Shizuoka University)
P2-5	Detection of abnormal internal browning in 'Greensis' pears using NIR/Vis spectroscopy	Ho-Jin Seo (Pear Research Institute, National Institute of Horticultural & Herbal Science)
P2-6	Effect of 'joint cutting' and positional difference on new shoot growth and uniformity of fruit quality in tree joint training system of Japanese pear 'Housui'	Kaho Imura (University of Tsukuba)
P2-7	Productivity and productive age of tree joint training system of Japanese pear as high-density planting cultivation without dwarfing rootstock	Kenichiro Shibata (Kanagawa Agricultural Technology Center)
P2-8	Towards the establishment of a deep learning-based flower bud phenotyping system in Prunus mume	Hisayo Yamane (Kyoto University)
P2-9	The timing of trehalose injection affects the number of flowers and the expression of VvCKX5 in the hybrid grape Vitis labrusca × V. vinifera 'Shine Muscat'	Minori Kondo (Akita Prefectural University)
P2-10	Gas exchange performance of Vitis vinifera and hybrid grape cultivars at various soil water availability	Mu-Chen Liu (National Taiwan University)
P2-11	Nondestructive evaluation of berry softening by an acoustic vibration method in three grape cultivars	Fumio Fukuda (Okayama University)
P2-12	Evaluation of fruit quality of Japanese persimmon "Taishu" by VGG16 fine-tuned model using images acquired by a camera built into a fruit sorting machine as input data	Ryo Iwasaki (Graduate School of Agriculture, Kyoto University)
P2-13	Effects of Night Temperature Management Methods on Quality of fruit quality of 'Shiranui' Hybrid Mandarin in Plastic Film House	Jee-soo Park (National Institute of Horticultural and Herbal Science)

P2-14	Effect of fruit bagging on chlorophyll and carotenoid accumulation in flavedo of Valencia orange during regreening	Nichapat Keawmanee (Shizuoka University)
P2-15	Machine learning approaches for non-destructive sorting of fruit with desiccation and granulation disorders using acoustic vibration method in Japanese citrus new cultivar 'Mizuki'	Asuka Demizu (Kyoto University)
P2-16	Period of flowering and harvesting in summer-autumn and their fruits quality of southern highbush blueberry 'Bluecrisp'	Manabu Watanabe (Iwate University)
P2-17	Determination of soil material for the cultivation of low-potassium blueberry fruit	Sakura Takahashi (Tokyo University of Agriculture and Technology)
P2-18	Estimation of yield and fruit load based on detection of on-tree chestnut fruits using deep learning and RGB UAV imagery	Takumi Arakawa (Gifu Prefectural Research Institute for Agricultural Technology in Hilly and Mountainous Areas)
P2-19	Effective pollination period of 'Fuji Murasaki' Akebia trifoliata	Daiki Matsumoto (Fukui Prefectural University)
P2-20	Effects of soil pH in Andosols on growth and mineral absorption in passion fruit	Tomohiro Kondo (Graduate School of Agriculture, Kyoto Univ.)
P2-21	Economies of scale in constructing plant factories with artificial lighting and the economic viability of crop production	Dannisa Fathiya Rachma (Chiba University)
P2-22	Development of a hydroponic system and determination of substrate for strawberry cultivation in a plant factory with artificial lighting	Kyeong-Su Seo (Chungbuk National University)
P2-23	Evaluation of tools for pollination of strawberry production in plant factory with artificial light (PFAL)	Yoko Nishimoto (Chiba University)
P2-24	Effects of air and CO2 application within strawberry plant canopy on dry matter production and fruit yield during summer and autumn culture	Yuya Mochizuki (College of Agriculture, Ibaraki University)
P2-25	Effects of PPFD and light quality of overnight supplemental lighting on growth and flowering of seed-propagated strawberry 'Yotsuboshi' during nursery period	Hideo Yoshida (Chiba university)
P2-26	Effects of environmental conditions for inducing flower bud initiation on plant growth and flowering of June-bearing strawberry grown under LED lighting	Mutsumi Goto (Osaka Metropolitan University)
P2-27	Reproduction of radiative cooling in a greenhouse using a hot box with a thermal plant model	Yuta Ohashi (National Agriculture and Food Research Organization)

P2-28	Analysis of the thermal insulation and light transmittance characteristics of a non-heated single-span greenhouse following installation of external multi-layer insulated curtains	Mankwon Choi (Protected Horticulture Research Institute, HIHHS, RDA)
P2-29	Effect of humic substances and mycorrhizal symbiosis on heat stress tolerance, yield and functional constituents in everbearing strawberry	Shino Sawamura (Graduate school of Natural Science and Technology)
P2-30	Estimation of strawberry fruit weight based on fruit diameter	Minori Hikawa-Endo (National Agriculture and Food Research organization)
P2-31	System design for cultivating tomatoes in plant factory with artificial lighting	Akiko Hattori (Fujifilm)
P2-32	Estimating of tomato canopy photosynthetic efficiency by nitrogen distribution and photosynthetic characteristics according to leaf growth stage	Sooyoung Choi (Department of Smart Farm, Jeonbuk National University)
P2-33	Effect of near-infrared light irradiation on growth and fruit quality of cherry tomatoes under cultivation	Ayako Hada (Shikoku Research Institute Inc.)
P2-34	Effect of carbon dioxide application on tomato growth dynamics and yield within a low solar radiation environment in Akita (cold region), Japan	Yasuhiro Suzuki (-)
P2-35	Prediction of yield based on fruit set and dry matter production in greenhouse tomato	Mizuho Itoh (NARO)
P2-36	Using liquid digestate as fertilizer to co-cultivate <i>Chlorella vulgaris</i> and cherry tomato 'Rosada'	Po-Chuan Chien (Department of Horticulture and Landscape Architecture)
P2-37	Estimation of required water amount for greenhouse cultivation in reclaimed lands and design of rainwater utilization system	Kim Sung Joon (Jeonbuk National University, Department of Smart Farm)
P2-38	Effect of environmental control using groundwater and full-open-roof vinyl house on yield in long-term cultivation using three tomato varieties in Akita, the coldest region in Japan	Kota Ohara (Akita Prefectural University)
P2-39	Seed priming and melatonin treatment reduce the growth inhibition by low temperatures of tomato seed at the early germination stage	Kyungtae Park (Chungbuk National University)
P2-40	Development of the method for estimating enthalpy and humidity deficit in greenhouses equipped with a ventilation fan	Manami Suzuki (Okayama University)
P2-41	Effects of sorghum cultivation on yield and root zone of 'Mizunasu' eggplant	Honami Akrich (Research Institute of Environment, Agriculture and Fisheries, Osaka Prefecture)

P2-42	Modeling fruit set in greenhouse sweet pepper	Masaru Homma (National Agriculture and Food Research Organization)
P2-43	Method for estimating fruit growth period by using best logistic function to describe fruit growth of paprika	Kyoka Nikaido (Miyagi University School of Food Industrial Science)
P2-44	Effective training methods for cucumber production in newly developed nutrient film technique hydroponic system	Nethone Samba (Chiba University)
P2-45	Effect of different leaf area management on growth and yield of cucumber (<i>Cucumis sativus</i> L.) cultivated by soilless culture	Kazuya Maeda (National Agriculture and Food Research Organization (NARO))
P2-46	Comparison of hyperspectral imaging-based and actual measurement values for high-quality grafted cucumber seedling production	Yang Gyu Ku (Department of Horticulture Industry, Wonkwang University)
P2-47	Comparison of growth characteristics of sweet pumpkins(<i>Cucurbita maxima</i> Duch.) between direct seeding and raising seeding during retarding culture	Minjung Kim (-)
P2-48	Development of a smartphone application for predicting the growth and harvest date of lettuce	Shinichi Nakano (Hyogo Prefectural Agriculture, Forestry and Fisheries Research Center Awaji Agricultural Technology)
P2-49	Prediction of phytochemical contents of lettuce (<i>Lactuca sativa</i> L.) based on machine learning	Sangki Jeon (Chungnam National University)
P2-50	Dynamics of far-red induced light interception ability in plant factory cultivation	Jaewoo Kim (Seoul National University)
P2-51	Growth comparison of corn salad and frill lettuce under the same environmental Conditions with artificial light	Teeranuch Joilek (Chiba University)
P2-52	Modeling lettuce growth and leaf development in response to dynamic spectral distribution over time	EunJeong Lim (Seoul national university)
P2-53	The economic advantages of tip-burn resistant lettuce in plant factories with artificial lighting (PFALs)	Yuma Matsuzawa (LeafLab Co.,Ltd.)
P2-54	LCA analysis of leaf lettuce production in plant factories in various decarbonization scenarios	Saneyuki Kawabata (The University of Tokyo)
P2-55	Controlling root zone temperature improves plant growth and functional ingredients in hydroponic lettuce	Christopher P. Levine (The University of Tokyo)
P2-56	Does the Recirculating aquaculture system produce salads of satisfactory nutritional quality?	Lenka Langhansova (The Czech Academy of Sciences, Institute of Experimental Botany)

P2-57	Development of a cultivation model and varietal selection for darkly colored red leaf lettuce in hydroponics under artificial light	Ryohei Koyama (Kobe university)
P2-58	Effect of substrates elaborated with waste of tires and cables in lettuce growth	Ana Garcia (Universidad de Leon)
P2-59	The effect of plant growth-promoting bacteria on the carbon sink of an indoor lettuce (<i>Lactuca sativa</i> L.) cultivation system	Hyungmin Rho (National Taiwan University)
P2-60	Bioaccumulation of heavy metals from substrates elaborated with waste of tires and cables in lettuce	Pedro A. Casquero (Universidad de Leon)
P2-61	Electric field direction modifies root-to-shoot allometric scaling in lettuce	Dahae Kim (Seoul National University)
P2-62	Evaluation of combining machine learning with RGB and multispectral images to estimate fresh weight and height of processing spinach	Shoki Ochiai (National Agriculture and Food Research Organization)
P2-63	Growth and biochemical responses of spinach to supplementary irradiation with UV-A LED lights in vertical farms	Da-Seul Choi (Chungbuk National University)
P2-64	Feasibility study on application of organic liquid fertilizer in hydroponic water spinach	Tomoka Endoh (Chiba University)
P2-65	Effects of early harvest on the yield and taste of cauliflower (<i>Brassica oleracea</i> var. botrytis)	Kazuhisa Kato (Graduate School of Agricultural Science, Tohoku University)
P2-66	A study of improving the eating quality of baby leaf cabbage as a new source of glucosinolate	Takuhito Kawachi (Institute for Sustainable Agro-ecosystem Services, The University of Tokyo)
P2-67	Effects of rain-protected culture in a plastic greenhouse using the Whole Harvest Cultivation Method for 1-year-old Asparagus Plants	Kaori Yamafuji (School of Agriculture, Meiji University)
P2-68	Estimation of light extinction coefficient of asparagus lateral ferns using numerical method	Takeshi Kuroyanagi (Western Region Agricultural Research Center, NARO)
P2-69	Glycine betaine material affects the growth and yield of asparagus in the long-term harvest production system in a semi-forcing culture	Fumi Satake (Graduate School of Agriculture, Meiji University)
P2-70	Mounding increases the rate of thick spears of asparagus	Kaito Suzuki (Graduate School of Agriculture, Meiji University)
P2-71	Effect of plasma-irradiated water on the growth and antioxidant capacity of komatsuna (<i>Brassica rapa</i> var. perviridis)	Lingran Xiao (Graduate School of Agricultural Science, Tohoku University)

P2-72	Investigate of nutrient solution management in hydroponics using organic liquid fertilizer	Tomoka Endoh (Chiba University)
P2-73	Effect of different cultivation environments on the growth and yield of Shimonita-Negi	Mayuko Okabe (Takasaki University of Health and Welfare)
P2-74	Effect of plant density and light intensity on growth and yield of green perilla in plant factory with artificial lighting	Maitree Munyanont (Chiba University)
P2-75	The effect of reused substrate on the growth of <i>Perilla frutescens</i> in paddy field	Minji Nam (Chungnam National University)
P2-76	Predicting corn salad (<i>Valerianella</i> spp) weight in a plant factory with artificial lighting (PFAL) using computer vision and machine learning techniques	Michiko Takagaki (Chiba University)
P2-77	Establishment of production schematic of corn salad (<i>Valerianella</i> spp) with plant factory with artificial lighting (PFAL)	Michiko Takagaki (Chiba University)
P2-78	Lighting design affects the uniformity and growth of plants in vertical farming	Seongnam Jang (Gyeongsang national university)
P2-79	Effects of cutting lengths, storage periods and PGR treatments on rooting and growth of cuttings in <i>Salicornia</i>	Kaoruko Koshida (Meiji university)
P2-80	The effect of water and fertilizer types on growth and yield of supan-supan (<i>Neptunia oleracea</i>) cultivated on flooded ultisol media	Hilda Susanti (University of Lambung Mangkurat)
P2-81	Light, temperature, and CO ₂ concentration effects upon photosynthesis and dry matter accumulation of Oriental hybrid lily 'Siberia'	Katsuhiko Inamoto (The National Agriculture and Food Research Organization)
P2-82	Effect of low sunshine and high temperature during flower bud differentiation on cut flower quality of carnation 'Cherry Tessino'	Syunya Kamachi (Rakuno Gakuen University)
P2-83	Thermal time for leaf unfolding, and effects of temperature on growth and photosystem II in <i>Alocasia</i> 'Bambino'	Chih-Wei Hsieh (National Taiwan University)
P2-84	Regulation of growth rate of dwarf gerbera by root zone temperature control and image analysis	Kubota Satoshi (Nihon university)
P2-85	Large-scale plant production of <i>Gerbera jamesonii</i> cv. Shy Pink by bioreactor culture in temporary immersion system	Myeong-Jin Lim (Chungbuk National University)
P2-86	Water deficit and fertilizer rates affecting growth, flower quality and physiological changes in tuberous begonia grown in plant factory	Soraya Ruamrungsri (Department of Plant and Soil Science, Faculty of Agriculture, Chiang Mai University)

P2-87	The influence of light-emitting diodes (LEDs) as a source of light on the growth, and development of Phalaenopsis plantlets during rooting in bioreactors	Hyo-Kyoung Kim (Chungbuk National University)
P2-88	Growth and flower characteristics of calendula under different light spectra in a controlled environment	Maitree Munyanont (Chiba University)
P2-89	Selection of optimal marigold (<i>Tagetes patula</i>) cultivar as an edible flower in a plant factory	Young Yeol Cho (Jeju National University)
P2-90	Effects of substrate substitution and water and fertilizer management on the growth of potted chrysanthemums	Ming Sun (Beijing Forestry University)
P2-91	Promoting flower yields, photosynthetic pigments and some secondary metabolite in Marguerite Daisy (<i>Chrysanthemum frutescens</i> L.) cut flower under the smart farming system by pinching technique	Panupon Hongpakdee (Department of Horticulture, Khon Kaen University)
P2-92	Wood chips treated by defibration, expansion, and moistening as a potting substrate for viola	Takashi Fudano (University of Hyogo)
P2-93	Nutrient deficiencies affect growth and development of vinca	Kanokwan Panjama (Chiangmai University)
P2-94	Factors on Asian ginseng decline and changes in secondary metabolites of mycorrhizal ginseng	Md. Abdullah Al Mahmud (The United Graduate School Of Agricultural Science, Gifu University)
P2-95	Germination characteristics of <i>Linaria japonica</i> Miq. native to Korea	Jihun Lee (ChungBuk University)
P2-96	Influence of different flower vases on the impression of cut flowers	Yozo Mitarai (Sapporo City University)
P2-97	Improving soybean (<i>Glycine max</i> L.) growth in rice paddy fields: an innovative cultivation technique using wasted coir substrates	Xin Wang (Chungnam national univesity)
P2-98	Effect of elevated CO ₂ and temperature on cultivated crop seed yield: a meta-analysis	Ya-Ching Chang (National Taiwan University Department of Horticulture and Landscape Architecture)
P2-99	Effects of different LED light spectrum on growth and cannabinoid contents of <i>Cannabis sativa</i> L. Hybrid “KKU Varieties” under an indoor pot cultivation	Premkamol Nounbunma (Khon Kaen University)
P2-100	Fish bone wonder - minerals content determination in 3 Species of fish bone waste as an alternative to inorganic fertilizer	Nor Idzwana Mohd Idris (Universiti Malaysia Terengganu)
P2-101	A study on optimum insulation thickness in walls of Chinese solar greenhouse for energy saving	Rui Wang (National Agriculture and Food Research Organization)

P2-102	Is indoor farming sustainable? Impacts of extensive energy use on economic viability, carbon footprint, and deep space habitation	Woo Hyun Kang (Seoul National University)
P2-103	Effects of cultivation environmental factors on the growth of the edible cactus (<i>Nopalea cochenillifera</i>) grown under hydroponic conditions	Shunya Tsuchimoto (Chubu University)
P2-104	Biofortification of the edible cactus <i>Nopalea cochenillifera</i> grown under hydroponic conditions	Eito Nishimura (Chubu University)
P2-105	Effect of selling area, period, and type on the price of okra (<i>Abelmoschus esculentus</i> L.) in Japan	Lime Sato (Graduate School of Agriculture, Meiji University)
P2-106	Comparison of asparagus marketing in the world -Comparison of commodity in ten countries in summer and autumn-	Sayaka Yamashita (Graduate School of Agriculture, Meiji University)
P2-107	Edible alleys in the discourse of urban horticulture: A case study on densely built urban renewal districts in Chiayi, Taiwan	Ting-I Lee (National Chiayi University)
P2-108	Application of calcium chloride on yield and quality of <i>Capsicum annum</i> L	Nattaya Montri (King Mongkuts Institute of Technology)
P2-109	Micropropagation as an alternative for tropical species plant production	Renato Paiva (ROSA 545)
P2-110	Investigating the effects of fish effluents as organic fertilizers on onion (<i>Allium cepa</i>) yield, soil nutrients, and soil microbiome	Lorenzo Fruscella (ROSA 629)
P2-111	Development of a growth state estimation system using a moving camera in strawberry cultivation	Seiji Matsuo (ROSA 153)
P2-112	Postharvest Physiological and Treatment Changes of Resistant Starch in Green Bananas	Sz-Jie Wu (ROSA 529)
P2-113	Integrated proteomic, transcriptomic and Metabolomic profiling reveal new clues for flower development in the orchid <i>Cymbidium sinense</i>	Fengxi Yang (Institute of Environmental Horticulture, Guangdong Academy of Agricultural Science)