# Poster Sessions

**Posters will be displayed at the third and fourth floors of the Humanities and Social Building during TJPB 2017 until November 5th 16:00.**

**Each poster presentation must have at least one author present during the poster session hours according to even or odd numbers.**

There are 2 poster sessions:

- November 4 (Saturday) at **18:30-19:30** (1hr) - **Odd** numbers
- November 4 (Saturday) at **19:30-20:30** (1hr) - **Even** numbers

## Vote for Outstanding Poster Awards

Please visit the posters, and discuss the content with presenters. Writing down **3** poster numbers you would prefer for outstanding posters award and drop your ballot in drop box by **20:30 November 4th**.

| No. | Title | Presenter | Organization |
|---|---|---|---|
| **Session 1 Environmental responses, Abiotic stresses** | | | |
| 001 | The roles of AtR8 long non-coding RNA on plant defense relate with WRKY53 and WRKY70 in Arabidopsis | Li Shuang | Nagoya City University, Japan |
| 002 | Investigation on response of selected plants to PAHs-mediated oxidative stress and their mitigation | Wahdatullah Khpalwak | Hiroshima University, Japan |
| 003 | Stomatal Response against Sulfur Dioxide | Lia Ooi | Okayama University, Japan |
| 004 | Early Temperature-Induced Stomata Efficacy on Eustoma grandiflorum Posture | Md Zohurul Kadir Roni | Ehime University, Japan |
| 005 | Mechanisms of cadmium-induced increases of sulfate uptake, translocation and thiol synthesis in *Arabidopsis thaliana* | Chisato Yamaguchi | Kyushu University, Japan |
| 006 | Effects of glycine betaine and raffinose for salt stress in sugar beet | Teruhiro Takabe | Meijo University, Japan |
| 007 | The lack of thioredoxin M1 or thioredoxin C in *Anabaena* sp. pcc 7120 leads to oxidative stress | Frédéric Deschoenmaeker | Tokyo Institute of Technology, Japan |
| 008 | Isolation and characterization of an *Arabidopsis* mutant, *ihc1*, having abnormalities in ABA-independent $CO_2$ signaling in guard cells | Ryoma Tohmori | Kyushu University, Japan |
| 009 | Chloroplast accumulation response enhances leaf photosynthesis and plant biomass production | Eiji Gotoh | Kyushu University, Japan |
| 010 | Functional study of MSRB8&9 | Yu-Hsin Chiu | Academia Sinica, |

| No. | Title | Presenter | Organization |
|---|---|---|---|
| | | | Taiwan |
| 011 | Histone acetylation functions in switching and priming the novel survival strategy against drought in *Arabidopsis*. | Jong-Myong Kim | RIKEN CSRS, Japan |
| 012 | Screening of *Arabidopsis* mutants with low sensitivity to the phosphatidylinositol 4-kinase inhibitor, PAO, that decreases the dynamic PATROL1 movements in stomata | Sho Takahashi | Kyushu University, Japan |
| 013 | Isolation and functional analysis of novel cold-induced barley *CISP* genes | Mengchao Ying | Nagoya City University, Japan |
| 014 | Characterization of an Arabidopsis Transcription Factor Involved in Regulation of Purple Acid Phosphatase Genes | Chin-Wen Chang | Saitama University, Japan |
| 015 | Duplication of Mitochondrial DnaK and GrpE Genes Increases Adaptability to Diverse Heat Stress Conditions in Arabidopsis | Meng-Ju Hung | Academia Sinica, Taiwan |
| 016 | $Ca^{2+}$-permeable mechanosensitive channels MCA1 and MCA2 mediate cold-induced cytosolic $Ca^{2+}$ increase and cold tolerance in Arabidopsis | Na Renhu | University of Tsukuba, Japan |
| 017 | *Phalaenopsis flowering locus VE* regulates floral organ maturation | Hsin-Yu Chuang | Academia Sinica, Taiwan |
| 018 | Identification of novel N/$CO_2$-responsive genes by GWAS in *Arabidopsis thaliana* | Hikaru Watase | Kyushu University, Japan |
| 019 | The analysis of gene expression mechanism and physiological function of aldo-keto reductase in tomato | Marina Suekawa | Hiroshima University, Japan |
| 020 | Thioredoxin regulates G6PDH activity by changing redox status of OpcA in the nitrogen-fixing cyanobacterium *Anabaena* sp. PCC 7120 | Shoko Mihara | Tokyo Institute of Technology, Japan |
| 021 | Arabidopsis LAZY1 family plays key role in gravity signaling within statocytes in gravitropism and in branch angle control of roots and shoots. | Miyo T. Morita | Nagoya University, Japan |
| 022 | Short ORFs associated with carbon/nitrogen-nutrient response in *Arabidopsis* | Ayu Yamamoto | Kyushu University, Japan |
| 023 | Functional Analysis of RNA Polymerase III-dependent Non-coding RNA of Rice | Ailizati Aili | Nagoya City University, Japan |
| 024 | Impacts of genetic perturbations in photosynthetic redox regulation on plant light stress response. | Takanori Maruta | Shimane University, Japan |
| 025 | Mechanism of cell injury induced by a rapid temperature decrease in *Saintpaulia* sp. leaves. | Miwa Ohnishi | Kobe University, Japan |
| 026 | A shortened annual cycle system; a tool for laboratory studies of seasonal phenomena in trees | Yuko Kurita | Ryukoku University, Japan |
| 027 | A single seed treatment with reactive oxygen species (ROS) improves growth performance and alleviates abiotic stress in Arabidopsis | Md Mostafa Kamal | Iwate University, Japan |
| 028 | Construction of a rapamycin-susceptible strain of the unicellular red alga *Cyanidioschyzon merolae* for analysis of target of rapamycin (TOR) function | Sousuke Imamura | Tokyo Institute of Technology, Japan |
| 029 | Calcium Signals Regulate CBF/DREB1 Expression | Hayato Hiraki | Iwate University, |

| No. | Title | Presenter | Organization |
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| | dependent on the Temperature Fluctuation in the Field | | Japan |
| 030 | Novel peptides related to Zinc homeostasis in *Arabidopsis thaliana* | Yoichiro Fukao | Ritsumeikan University, Japan |
| 031 | Contribution of glutathione-dependent dehydroascorbate reductases to ascorbate recycling in *Arabidopsis*. | Yusuke Terai | Shimane University, Japan |
| 032 | Functional analysis of highly induced defensin-like family protein on Zinc deficient condition in *Arabidopsis thaliana* | Tomoya Ohshita | Ritsumeikan University, Japan |
| 033 | How does full nitrogen rescue the plants from phosphate deficiency stress? | Yoshitake Yushi | Tokyo Institute of Technology, Japan |
| 034 | Loss of flowering in semiaquatic plant *Rorippa aquatica* | Shuka Ikematsu | Kyoto Sangyo University, Japan |
| 035 | Identification and characterization of the endoplasmic reticulum body in rosette leaves of *Arabidopsis* | Akiko Nakazaki | Kyoto University, Japan |
| 036 | Rice ERF66 and ERF67 in SUB1A-1 pathway for submergence resistance | Meng-Chiao Joseph Ho | Academia Sinica, Taiwan |
| 037 | Regulation of high light stress response through interaction of the production site-specific pathways for $H_2O_2$ signaling | Gen Mitomi | Shimane University, Japan |
| 038 | FIN219 and HY5 in *Arabidopsis* participate in drought and salt stress responses through regulating ERFs levels | Fang-Wen Li | National Taiwan University, Taiwan |
| 039 | Characterization of CEP5 and CEPR1 associated with zinc-deficient tolerance in *Arabidopsis thaliana* | Yuji Yamaguchi | Ritsumeikan University, Japan |
| 040 | GTR1, a JA-Ile transporter, involves in salt-induced root inhibition in Arabidopsis | Hsin-Yi Kuo | National Taiwan University, Taiwan |
| 041 | Hot water seed disinfection affects germination and seedling emergence of Hokkaido rice cultivars in low temperature conditions | Yoshiyuki Sagehashi | National Agriculture and Food Research Organization, Japan |
| 042 | A genetic screen for molecular components that modulates specifically in stomatal $CO_2$-signalling pathway | Sakiko Saito | Kyushu University, Fukuoka, Japan |
| 043 | The metagenomics of mycorrhiza and ecological adaption in biofuel crop Miscanthus | Yu Chen Wang | National Cheng Kung University, Taiwan |
| 044 | Functional Analysis of NAC-type Transcriptional Factors during Tissue Reunion in *Arabidopsis* flowering stem | Keita Matsuoka | Teikyo University, Japan |
| 045 | Effects of low temperature on the ROS accumulation and antioxidant enzyme activities in ice plant *Mesembryanthemum crystallinum* L. | Wen-Ling Huang | National Chung Hsing University, Taiwan |
| 046 | Differential expression of inositol transporter *McINT* gene families and uptake of *myo*-inositol under salt treatment in halophyte *Mesembryanthemum crystallinum* | Cheng Hsun Li | National Chung Hsing University, Taiwan |
| 047 | Plant-to-seed signaling is essential for seed development under low-humidity condition | Masatake Kanai | National Institute for Basic Biology, Japan |
| 048 | Physiological and molecular responses of Arabidopsis thaliana exposed to technology-critical elements Ga, In | Hsin-Fang Chnag | Academia Sinica, Taiwan |

| No. | Title | Presenter | Organization |
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| | and Tl | | |
| 049 | Analysis of plant hormone profiles in response to moderate dehydration stress | Kaoru Urano | RIKEN, Japan |
| 050 | Non Responsive to Fe Deficiency 2 (NRF2) involved in the regulation of Fe homeostasis in Arabidopsis thaliana | Surjit Singh | Academia Sinica, Taiwan |
| 051 | Common Stress Transcriptome Analysis Reveals Functional and Genomic Architecture Differences Between Early and Delayed Response Genes | Chung-Wen Lin | National Cheng Kung University, Taiwan |
| 052 | Hydrogen peroxide treatment induces stress memory and enhances chilling tolerance in mung bean. | Yi-Wen Huang | Da-Yeh University, Taiwan |
| 053 | Identification and characterization of *crf1* , *Constitutive Response to Fe-deficiency 1* involved in the Fe negative regulatory mechanism in Arabidopsis | Reena Sharma | Academia Sinica, Taiwan |
| 054 | Uncovering Genes Responsible for Phosphate Uptake Activity by Genome-Wide Association Studies Using Nature Variations of Arabidopsis | Pei-Shan Chien | Academia Sinica, Taiwan |
| 055 | Phosphite-mediated phosphate starvation responses modulated by mitochondrial ATP synthesis and sugar metabolism in Arabidopsis | Shang Jye Leong | Academia Sinica, Taiwan |
| 056 | The relationship between the autophagy pathway and the phosphate starvation | Bo-Chang Lin | National Tsing Hua University, Taiwan |
| 057 | Investigating the crosstalk between the autophagy pathway and phosphate starvation using the *Arabidopsis* phosphate homeostasis and autophagy mutants | Pei-Yu Wu | National Tsing Hua University, Taiwan |
| 058 | Regulation and expression of OsNLA1 required for maintaining phosphate homeostasis in rice | Wen-chien Lu | Academia Sinica, Taiwan |
| 059 | Branched chain amino acid metabolism during autophagy process under shading stress and BCAAs starvation in Oryza sativa | Yee Yee Tun | University of Miyazaki, Japan |
| 060 | NRT/PTR Family 2.11 (NPF2.11) is involved in abiotic stress in Arabidopsis | Kim Teng Lee | National Taiwan University, Taiwan |
| 061 | Organic Acid Transporters Induced in Cluster Roots of White Lupin under Phosphorus Deficiency | Hiroaki Furutani | Hiroshima University, Japan |
| 062 | Phosphorylation of a 26S proteasome subunit has a crucial function in DNA damage tolerance | Arakawa Yuta | Tokyo University of Science, Japan |
| 063 | Cryopreservation of Snow lotus Suspension Cells which contains high syringin | Mariama A Kujabi | Yuan Ze University, Taiwan |
| 064 | Ectopic expression of specific GA2 oxidase mutants promotes yield and stress tolerance in rice | Shuen-Fang Lo | Academia Sinica, Taiwan |
| **Session 2 Biomembrane, Ion and solute transporters** | | | |
| 065 | ACTPK1, a STY kinase, down-modulates the high-affinity $NH^{4+}$ uptake of rice roots under high $NH^{4+}$ supply | Marcel Beier | Tohoku University, Japan |
| 066 | SlSWEETa modulates sugar distribution of sink organs in Tomato | Li Hsuan Ho | National Cheng Kung University, Taiwan |

| No. | Title | Presenter | Organization |
|---|---|---|---|
| 067 | A barley HvCNGC2-3, is activated by cAMP and the co-presence of external $Na^+$ and $K^+$, and permeates $Na^+$ and $K^+$ non-selectively | Maki Katsuhara | Okayama University, Japan |
| 068 | Contribution of SULTR2;1 and SULTR3;5 to Root-to-Shoot Translocation of Sulfate | Khamsalath Soudthedlath | Kyushu University, Japan |
| 069 | Long-distance signaling in response to Fe-starvation | Kumiko Ikuta | Nagoya University, Japan |
| 070 | Identifying Novel Functions of NRT1 Transporters by Systematic Biochemical Approaches | Yi-Chen Lin | Academia Sinica, Taiwan |
| 071 | The Functional Characterization of the NRT/PTR Family (NPF) Members in Biotic and Abiotic Stresses in Arabidopsis | Ya-Yun Wang | National Taiwan University, Taiwan |
| 072 | High concentration of boric acid rescues growth defect of vitamin B6 mutant | Izumi Aibara | Hokkaido University, Japan |
| 073 | A strategy for improving plant growth by manipulating a transporter involved in nitrate remobilization | Kuo-En Chen | Academia Sinica, Taiwan |
| 074 | Genome-wide analysis of gene expression regulated by internal nitrate in *Arabidopsis thaliana* | Yuki Okamoto | Nagoya University, Japan |
| 075 | Investigate Function of Sugar Transporters in Rhizome Development of *Gastrodia elata* | Shu-Ying Hsieh | National Cheng Kung University, Taiwan |
| 076 | Identification of the $CO_2$ transporters from among the plant aquaporins | Yoshiki Nakahara | Okayama University, Japan |
| 077 | Screening and identification of the potential targets involved in the Fe negative regulatory mechanism in Arabidopsis | Jingchi Lo | Academia Sinica, Taiwan |
| **Session 3 Organelles, Cytoskeletons** | | | |
| 078 | Autophagy for the vacuolar degradation of entire photodamaged chloroplasts | Masanori Izumi | Tohoku University, Japan |
| 079 | Chlorophagy selectively eliminates swollen chloroplasts caused by high visible light-damage in Arabidopsis leaves | Sakuya Nakamura | Tohoku University, Japan |
| 080 | Identification of novel inner nuclear membrane proteins in plant | Minato Watanabe | Tokyo University of Science, Japan |
| 081 | Possible regulation mechanisms of chloroplastic FtsH metalloprotease by protein phosphorylation | Yusuke Kato | Okayama University, Japan |
| 082 | Convergent evolution of HMG-box protein in organelle nucleoid | Mari Takusagawa | Kyoto University, Japan |
| 083 | Comprehensive analysis of phosphoproteins in thylakoid membranes | Keiji Nishioka | Okayama University, Japan |
| 084 | Identification and characterization of molecular players for peroxisome biogenesis and functions based on imaging-based approach | Shoji Mano | National Institute for Basic Biology, Japan |
| 085 | Structural analysis of moss plastid peptidoglycan using a metabolic labeling method with click chemistry | Kana Kishimoto | Kumamoto University, Japan |
| 086 | Nuclear transcriptome rewiring involving a peptide-exporting ABC transporter on chloroplast envelopes | Kenji Nishimura | Okayama University, Japan |

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| 087 | ANGUSTIFOLIA mediates the dark-induced nuclear positioning through actin organization in leaf cells of *Arabidopsis thaliana* | Kosei Iwabuchi | Konan University, Japan |
| 088 | Possible role of phosphorylation of chloroplast $Ca^{2+}$ binding protein CAS in the regulation of stomatal opening | Yuna Uemura | Kyoto Prefectural University, Japan |
| 089 | Cross-species complementation assay of macrochloroplast phenotype in moss *murE* mutant and of albino phenotype in *Arabidopsis* ones with larch *MurE* gene | Hiromi Kudo | Kumamoto University, Japan |
| 090 | Organelle genomes of a cybrid rapeseed, Brassica napus, SW18, which was produced by an asymmetric cell fusion with a cytoplasmic male sterile radish, Raphanus sativus. | Shungo Yanase | The University of Tokyo, Japan |
| 091 | Mitochondrial morphological change during whole plant ageing in *Arabidopsis thaliana* and *Marchantia polymorpha* L. | Hajime Sugaya | Tokyo University, Japan |
| 092 | A trade-off between growth and defense gene expression is orchestrated by chloroplast and mitochondrial retrograde signalings. | Takaki Murata | Kyoto Prefectural University, Japan |
| 093 | VIPP1, a chloroplast membrane integrity-maintaining protein, has GTP-binding and hydrolysis activities *in vitro* | Norikazu Ohnishi | Okayama University, Japan |
| 094 | Mitochondrial mechanosensitive channel MSL1 plays a role in seed germination in *Arabidopsis thaliana* | Souta Izumida | Kyoto Prefectural University, Japan |
| 095 | Polypeptide Transport-Associated Domains of the Toc75 Channel Protein Are Located in the Intermembrane Space of Chloroplasts | Yih-Lin Chen | Academia Sinica, Taiwan |
| 096 | Effect of ABA on Chloroplast Division on the Moss, *Physcomitrella patens* | Prapaporn Pongthai | Hokkaido University, Japan |
| 097 | Regulation of plastid protein import through transit-peptide motif alteration | Chiung-Chih Chu | Academia Sinica, Taiwan |
| **Session 4 Plant-microbe interaction** | | | |
| 098 | Characterization of rice LysM-RLKs involved in mycorrhizal symbiosis. | Hanae Kaku | Meiji University, Japan |
| 099 | Root-knot Nematodes Activate Procambium-associated Genes in Arabidopsis Roots | Reira Suzuki | Kumamoto University, Japan |
| 100 | Conservation of plant common symbiosis pathway in mycorrhizal symbiosis between *Bletilla striata* (Orchidaceae) and mycorrhizal fungus | Chihiro Miura | Tottori University, Japan |
| 101 | Effective Agrobacterium-mediated transformation methods for gene function analyses in ice plant (Mesembryanthemum crystallinum) cells and seedlings | Hau-Hsuan Hwang | National Chung Hsing University, Taiwan |
| 102 | A Gene regulation study of the *AtRTNLB4* functions in plant defense response | Fan-Chen Huang | National Chung Hsing University, Taiwan |
| 103 | Interactions between wild plants and viruses revealed by RNA-seq | Mari Kamitani | Ryukoku University, Japan |

| No. | Title | Presenter | Organization |
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| 104 | Isolation and application of plant growth-promoting bacteria and analysis of plant growth-promotion mechanisms. | Tomonori Nakaoka | Kindai University, Japan |
| 105 | The C2 protein encoded by tomato leaf curl Taiwan virus is a pathogenicity determinant that interferes with host DNA methylation machinery | Ya-Han Shen | National Changhua University of Education, Taiwan |
| 106 | Characterization of Root-knot Nematode Attractants Released through Seed Coat Mucilage Extrusion | Allen Yi-Lun Tsai | Kumamoto University, Japan |
| 107 | *Arabidopsis* RAB8A, RAB8B, and RAB8D proteins interact with several RTNLB proteins and participate the *Agrobacterium tumefaciens* infection process | Shin-Fei Chi | National Chung Hsing University, Taiwan |
| 108 | Stable pH Suppresses Defense Signaling and is the Key to Enhance *Agrobacterium*-Mediated Transformation in *Arabidopsis* Seedlings | Manda Yu | Academia Sinica, Taiwan |
| 109 | Next-generation sequencing technologies identify candidate genes for resistance to tomato late blight disease | Kenta Shirasawa | Kazusa DNA Research Institute, Japan |
| 110 | Functions of novel effector proteins isolated from plant pathogenic bacteria, *Acidovorax avenae*, in the host or non-host interactions | Minami Nakamura | Nagahama Institute of Bio-Science and Technology, Japan |
| 111 | Metagenomics of Symbiotic Bacteria in Swertia Root of Taiwan | Po-Yi Chen | National Cheng Kung University, Taiwan |
| 112 | Distinct pathogenesis and host responses to transient expression of individual genes encoded by tomato leaf curl Taiwan virus | Hui-Yu Hsiao | National Changhua University of Education, Taiwan |
| 113 | Attractant for plant parasitic nematode | Morihiro Oota | Kumamoto University, Japan |
| 114 | Plant growth-promoting traits of phosphate-solubilizing yeasts isolated from the phyllosphere and rhizosphere of Drosera spatulata Lab | Chen yi-ru | National Changhua University of Education, Taiwan |
| 115 | Recognition mechanism of CD2–1, C-terminal region of flagellin, mediated by novel pattern recognition receptor in rice | Yugo Imao | Nagahama Institute of Bio-Science and Technology, Japan |
| 116 | The Mechanism of Acid Tolerance of *Lycopodium cernuum* L. Grown in Solfatara Fields. | Takato Saito | Hiroshima University, Japan |
| 117 | Molecular mechanism of delayed flowering caused by phytoplasma infection | Shu-Heng Chang | National Chung Hsing University, Taiwan |
| 118 | Fine mapping of two quantitative trait loci for bacterial blight resistance in SA0424, a TNG67 mutant, using near isogenic lines | Min-Yu Chiang | National Chung Hsing University, Taiwan |
| **Session 5 Evolution, Taxonomy, Non-model plant, Education** | | | |
| 119 | Mechanisms of Leaf Morphogenesis in *Juncus prismatocarpus* | Xiaofeng Yin | The University of Tokyo, Japan |
| 120 | Evolution of microRNA827 targeting in the plant kingdom | Su-Fen Chiang | Academia Sinica, Taiwan |
| 121 | Early cotyledonary meristem activity and *STM* expression appears to be ancestral in Lamiales and has | Kanae Nishii | Tokyo Gakugei University, Japan |

| No. | Title | Presenter | Organization |
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| | diversified in Gesneriaceae | | |
| 122 | Differential expression of cytokinin biosynthesis *IPT* genes in non-model Cape Primrose plants | Yun-Yu Chen | University of Edinburgh, United Kingdom |
| 123 | Molecular basis of EGT and HGT: How bacterial transgenes express in the eukaryotic genome? | Takayuki Hata | Kyoto Prefectural University, Japan |
| 124 | To BE an orchid: B- and E-class MADS-box genes involved in regulating orchid flower development | ZhaoJun Pan | National Taiwan University, Taiwan |
| 125 | Establishing transient gene expression and RNA interference as genetic approaches for gene functional analysis in protoplasts of thermogenic skunk cabbage (*Symplocarpus renifolius*) | Haruhiko Maekawa | Faculty of Agriculture University of Miyazaki, Japan |
| 126 | Phylogeography of Paper mulberry: a widely distributed species in China, Taiwan and Indochina | Wenhsi Kuo | Academia Sinica, Taiwan |
| 127 | Detailed process of shoot regeneration and optimization of *Agrobacterium*-mediated transformation in *Sinningia speciosa* | Yu-Ling Hung | National Taiwan University, Taiwan |
| **Session 6 Photoreceptors, Photoresponses / Clock** | | | |
| 128 | The role of auxin in the blue-light-directed twisting of the Arabidopsis leaves | Yuta Otsuka | The University of Tokyo, Japan |
| 129 | Bisulfite sequencing analysis of *Arabidopsis* circadian clock mutants | Yuji Miyazaki | Okinawa Institute of Science and Technology Graduate University, Japan |
| 130 | Molecular study of circadian clock with small molecules | Norihito Nakamichi | Nagoya University, Japan |
| 131 | Physcomitrella phytochromes modulate alternative RNA splicing through hnRNP-F1 and an exonic splicing silencer. | BouYun Lin | Academia Sinica, Taiwan |
| 132 | Biochemical analysis of aureochrome in the raphidophycean alga *Chattonella antiqua* | Fumio Takahashi | Ritsumeikan University, Japan |
| 133 | Functional analysis of auxin transport, biosynthesis and signaling in root phototropism of Arabidopsis | Taro Kimura | Niigata Universty, Japan |
| 134 | Time-dependent manner of the involvement of blue light and cryptochrome in cold acclimation process | Hiroyuki Imai | Iwate University, Japan |
| 135 | A small molecule changing circadian period to 48 h | Takashi Nonoyama | Nagoya University, Japan |
| 136 | Absorption spectral properties of phyC activated with blue-shifted red light are conserved among angiosperms | Shizue Yoshihara | Osaka Prefecture University, Japan |
| 137 | Mechanistic studies of light-enhanced translation in de-etiolating Arabidopsis seedlings | Guan-Hong Chen | Academia Sinica, Taiwan |
| 138 | Characterization of circadian rhythms of a genus of duckweed plants(*Wolffiella*). | Minako Isoda | Kyoto University, Japan |
| 139 | BELL-LIKE HOMEODOMAIN 1 Functions as an Extragenic Suppressor of FIN219/JAR1 in Regulation of *Arabidopsis* Seedling Development Under Far-Red Light | Shao-li Yang | National Taiwan University, Taiwan |

| No. | Title | Presenter | Organization |
|---|---|---|---|
| 140 | Processing bodies regulate selective translation in photomorphogenic Arabidopsis | Geng-Jen Jang | Academia Sinica, Taiwan |
| 141 | Correlation between the critical day-length and the period of circadian clock in a Japanese short-day duckweed | Tomoaki Muranaka | Kyoto University, Japan |
| 142 | Non-tissue autonomous regulation of auxin-responsive genes in the shade avoidance response. | sujung kim | Kyoto University, Japan |
| 143 | The regulatory role of plant-specific transcription factor family BASIC PENTACYSTEINE in *Arabidopsis* circadian clock | Huang-Lung Tsai | National Taiwan University, Taiwan |
| 144 | Gene expression analysis of microbial rhodopsin-like genes in marine cryptomonad | Masae Konno | Nagoya Institute of Technology, Japan |
| 145 | Phytochrome-Interacting Factor 14 (OsPIF14) may modulate root curling through JA signaling | André Cordeiro | Instituto de Tecnologia Química e Biológica, Av. da República |
| 146 | Phytochrome interacts with heterogeneous nuclear ribonucleoprotein to silence prespliceosome activity and modulate alternative splicing | ChuehJu Shih | Academia Sinica, Taiwan |
| 147 | Analysis of the regulation of leaf senescence by plant photoreceptors | Toshiaki Kozuka | Hiroshima University, Japan |
| **Session 7 Plant hormones / Signaling molecules** | | | |
| 148 | Transcriptome analysis of auxin responses in rice coleoptile under submergence | Yu-Sian Wu | National Chung Hsing University, Taiwan |
| 149 | Development of chemical regulators of gibberellin signal | Kai Jiang | The University of Tokyo, Japan |
| 150 | Elucidation of a novel mechanism of phototropism in pea epicotyls regulated by photo-induced growth inhibitors | Megumi Tsuzuki | University of Tsukuba, Japan |
| 151 | An ancestral gibberellin biosynthetic pathway in the moss | Sho Miyazaki | Tokyo University, Japan |
| 152 | Manipulation of cellular auxin distribution by chemical biology approach | Ken-ichiro Hayashi | Okayama University of Science, Japan |
| 153 | A model for the molecular mechanism of vascular development in the haustorium of the parasitic plant *Cuscuta campestris*. | Yuki Kaga | Tohoku University, Japan |
| 154 | Structural basis of the self-recognition in *Brassica* self-incompatibility | Chiho Masaka | NARA Institute of Science and Technology, Japan |
| 155 | Functional analysis of CLE 16 and CLE 17 in Arabidopsis | Chie Shimaoka | Kumamoto University, Japan |
| 156 | A study on *CLE1* to *CLE7* meditated environmental signals in *Arabidopsis thaliana* | Dichao Ma | Tokyo University, Japan |
| 157 | Strigolactone and Brassinazole Coordinately Induce Light-Adapted Development in Arabidopsis thaliana Depending on STH7 Function | Jutiporn Thussagunpanit | The University of Tokyo, Japan |
| 158 | Detection of cytoplasmic splicing by BiFC-based reporter in Arabidopsis | Kazuki Tabara | Osaka Prefecture University, Japan |

| No. | Title | Presenter | Organization |
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| 159 | Analysis of the mechanisms of action of a compound regulating both auxin and brassinosteroid signal transductions | Naiyanate Jaroensanti Tanaka | The University of Tokyo, Japan |
| 160 | Elucidation of the molecular mechanisms controlling flowering in the stem parasitic plant *Cuscuta campestris*. | Moegi Kato | Tohoku University, Japan |
| 161 | Tissue-specific analysis of gene expression and endogenous phytohormone in tissue-reunion process of *Arabidopsis* incised flowering stem using laser microdissection. | Kazuki Yamada | Teikyo University, Japan |
| 162 | A tetraspanin gene controlled various plant developmental processes by regulating the auxin response in Arabidopsis thaliana | Chen WeiHao | National Chung Hsing University, Taiwan |
| 163 | A Gene ANTHER DEHISCENCE REPRESSOR (ADR) Controls Male-sterility by Suppressing the Jasmonate Biosynthetic Pathway and Anther Cell Wall Thickening in Peroxisomes of Arabidopsis | Shu-Yu Dai | National Chung Hsing University, Taiwan |
| 164 | The NAC-like gene AtNACL14 Controls Plant Growth and Development by Regulating Gibberellin Metabolism Pathway in Arabidopsis | Hong-Ie Chen | National Chung Hsing University, Taiwan |
| 165 | Functional characterization of the *fas* operon involved in synthesis of cytokinins in *Rhodococcus fascians*. | Mio Takahata | Nagoya University, Japan |
| 166 | Parasitic plant–host interactions control endoreduplication-mediated cell expansion during haustorial development of the holoparasitic plant, *Cuscuta campestris* | Hideki Narukawa | Tohoku University, Japan |
| 167 | DELLA-GAF1 Complex is a Main Component in Gibberellin Feedback Regulation of GA20ox2 in Arabidopsis | Jutarou Fukazawa | Hiroshima University, Japan |
| 168 | An adenylyl cyclase gene, Mp*CAPE*, specifically expresses in the male sexual organ antheridium with its maturation | Chiaki Yamamoto | Ritsumeikan University, Japan |
| 169 | Isolation of novel transcription factors which related to brassinosteroid response. | Reika Taguchi | Saitama University, Japan |
| 170 | Do strigolactones regulate both shoot branching and rhizome formation in *Bambusa multiplex* Raeusch? | Mami Otake | Toyo University, Japan |
| 171 | Effects of phytohormone on the antheridium and prothalli formation in *Ligodium japonicum*. | Natsumi Ohishi | Teikyo University, Japan |
| 172 | The roles of the NIN-Like Protein 7 (NLP7) and NLP6 in nitrate signaling in Arabidopsis thaliana | Yu Hsuan Cheng | Academia Sinica, Taiwan |
| 173 | FIN219/JAR1 Participates in Shade Signaling Likely Through Interaction With Phytochrome B in *Arabidopsis* | Kai-Chun Peng | National Taiwan University, Taiwan |
| 174 | Potential agonists of ethylene response uncovered by a chemical screening strategy based on yeast two-hybrid system | Wen-Ju Hsieh | National Chung Hsing University, Taiwan |
| 175 | Interference with protein-protein interaction of the ETR1-CTR1-EIN2 complex induces ethylene response in Arabidopsis thaliana | Hao-Ting Xu | National Chung Hsing University, Taiwan |

| No. | Title | Presenter | Organization |
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| 176 | Oxylipin signatures associated with the biosynthesis of chemical defense compound momilactones in the moss *Hypnum plumaeforme* | Miyu Teruya | The University of Tokyo, Japan |
| 177 | Possible Involvement of Endoplasmic Reticulum Dynamics in Stress-Induced Abscisic Acid Production in Arabidopsis Leaves | Yiping Han | Hiroshima University, Japan |
| 178 | Modification and evaluation of strigolactone mimics for selective effects on rice tillering or root paracitic plants seed germination | Ikuo Takahashi | The University of Tokyo, Japan |
| 179 | *D27*, a strigolactone biosynthetic gene is required for adaptation to sulfate ion deficiency | Masato Shindo | Toyo University, Japan |
| 180 | Arabidopsis LAZY1 family mediates gravity signaling in branch angle control of roots through the interaction with RLD family. | Masahiko Furutani | Nagoya University, Japan |
| 181 | Identification of small molecule inhibitors of Arabidopsis EIN3 | Kung-Ming Liu | National Chung Hsing University, Taiwan |
| 182 | Unveiling the Roles of NITRATE TRANSPORTER1/PEPTIDE TRANSPORTER FAMILIY (NPF) in Arabidopsis Brassinosteroid Responses | Guan-Yu Louh | National Taiwan University, Taiwan |
| 183 | Functional characterization and comparison of Rice GA 2-oxidase gene family | Kun-Ting Hsieh | Academia Sinica, Taiwan |
| 184 | Charactaristics of strigolactone-deficient *slccd8* mutants in Micro-Tom | Shoko Hasegawa | Toyo University, Japan |
| 185 | Increased MGDG/DGDG ratio induces JA over-production | Chun-Wei Yu | Academia Sinica, Taiwan |
| 186 | Brassinosteroid enhances phosphorylation level of the penultimate residue of plasma membrane $H^+$-ATPases. | Takahashi Koji | Nagoya University, Japan |
| 187 | Auxin regulates adventitious shoot formation on internodal segments in ipecac | Imari Koike | Toyo University, Japan |
| **Session 8 Membrane trafficking, Cell walls** | | | |
| 188 | Quantitative imaging approaches to mechanisms of cell wall construction using *Arabidopsis* mesophyll protoplasts | Hiroaki Kuki | Tohoku University, Japan |
| 189 | Discovery and biochemical characterization of rhamnosyltransferase involved in pectin biosynthesis in Arabidopsis thaliana | Yuto Takenaka | Ritsumeikan University, Japan |
| 190 | Assays for glycosyltransferases involved in biosynthesis of pectic rhamnogalacturonan I in plant cell wall | Kenta Yagyu | Ritsumeikan University, Japan |
| 191 | Preparation of UDP-apiose, a donor substrate of a glycosyltransferase involved in pectin biosynthesis | Tae Fujimori | Ritsumeikan University, Japan |
| 192 | Transcriptome analysis of tension wood formation using in-pot cultured poplar | Minoru Kubo | NARA Institute of Science and Technology, Japan |
| 193 | Analysis of Arabidopsis mutants defective for VND7-induced xylem vessel cell differentiation | Pawittra Phookaew | NARA Institute of Science and Technology, Japan |

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| 194 | NAC transcription factors VNS proteins regulate tracheid formation in *Pinus taeda*. | Nobuhiro Akiyoshi | NARA Institute of Science and Technology, Japan |
| 195 | Vacuolar Sorting Receptors Are Involved in Cuticle Layer Formation in Arabid*opsis* | Tadashi Kunieda | Konan University, Japan |
| 196 | Qa-SNARE SYP3 is required for male and female gametogenesis in *Arabidopsis thaliana*. | Kazuo Ebine | National Institute for Basic Biology, Japan |
| 197 | Exploring the function of cellulose endotransglucosylase (CET) in plants | Mikami Shingo | Tohoku University, Japan |
| 198 | Analysis of autophagy during spermiogenesis in Marchantia polymorpha | Takuya Norizuki | National Institute for Basic Biology, Japan |
| 199 | Root cap-specific pectin methylesterase promotes cell detachment of the outermost cell layer. | Maeda Kazuki | Kyoto University, Japan |
| 200 | Cell-specific redirection of a membrane trafficking pathway led to acquisition of lineage-specific organelles during land plant evolution | Takehiko Kanazawa | National Institute for Basic Biology, Japan |
| 201 | Galacturonosyltransferase Mutations Reduce Boron Requirement by Maintenance of Rhamnogalacturonan-II Crosslinking Rate in *Arabidopsis thaliana* | Hiroya Funakawa | Hokkaido University, Japan |
| 202 | The Coiled-Coil Protein MAG3 is Involved in Protein Transport at the Endoplasmic Reticulum-Golgi Interface | Junpei Takagi | Tokyo University, Japan |
| 203 | Functional analysis of a novel Arabidopsis ARF GAP protein | Masaki Takeuchi | Tokyo University, Japan |
| **Session 9 Photosynthesis, Environmental response of photosynthesis and respiration** | | | |
| 204 | Overestimation of intercellular $CO_2$ concentration in leaves with open stomata | Jun Tominaga | Hiroshima University, Japan |
| 205 | Newly isolated P23k homologue is responsive to sugar transport and metabolismin *Brachypodium distachyon* | Taode Bilige | Nagoya City University, Japan |
| 206 | Isolation and characterization of photosystem I ssembly apparatus | Yuichiro Takahashi | Okayama University, Japan |
| 207 | Effects of overproduction of Rubisco activase on Rubisco content in rice | Mao Suganami | Tohoku University, Japan |
| 208 | The NDH-PSI supercomplex formation is triggered during the NDH assembly steps mediated by CRR3 | Yoshinobu Kato | Kyoto University, Japan |
| 209 | Arabidopsis thaliana *FLO2* is involved in efficiency of photoassimilate translocation, which associates with leaf growth and aging, yield of seed, and seed quality. | Miho Kihira | Tokyo University of Science, Japan |
| 210 | Identification of two chemical compounds that adversely affect the photosynthetic electron transport systems in Arabidopsis. | Fumiyoshi Myouga | RIKEN CSRS, Japan |
| 211 | Arabidopsis AS1 (Ammonia sensitive 1) encoding a new regulator between nitrogen assimilation and photosynthesis | Ting-Hung Lin | Academia Sinica, Taiwan |
| 212 | Spontaneously-generated tandem repeats of psbEFLJ | Yi-Fang Chiu | Academia Sinica, |

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| | operon restore photoautotrophic growth of cytochrome $b_{559}$ mutants in the cyanobacterium *Synechocystis* sp. PCC6803 | | Taiwan |
| 213 | Deficiency of the Stroma-lamellar Protein LIL8/PSB33 Affects the Dynamics of Light-harvesting Complexes and Energy Transfer around Photosystem I in Arabidopsis | Ryouichi Tanaka | Hokkaido University, Japan |
| 214 | The role of Calcium Oxalate Crystals in Alarm Photosynthesis. | Christos Chasapis | FORTH / ICE-HT, Hellas |
| 215 | Photoprotection mechanisms of the drought-tolerant *Jatropha curcas* plant | Helena Sapeta | Hokkaido University, Japan |
| 216 | Atmospheric $CO_2$ concentration and N availability are mutually interacted to maintain the balance of two photosystems in mature leaves of rice plants | Hiroshi Ozaki | Tokyo University of Pharmacy and Life Sciences, Japan |
| 217 | The relationship between histone modification and alternative splicing in *Physcomitrella* | Wang Jainn-Zang | Academia Sinica, Taiwan |
| 218 | Regulation of β-carotene hydroxylase gene expression by the light intensity and quality in *Arabidopsis* | Satomi Takeda | Osaka Prefecture University, Japan |
| **Session 10 Vegetative growth** | | | |
| 219 | Excess pyrophosphate within guard cells delays stomatal closure | Mariko Asaoka | Tokyo Gakugei University, Japan |
| 220 | A genetic approach revealed a key driving role of IBA derived auxin in Class II CCE in *fugu5* | Hiromitsu Tabeta | Tokyo Gakugei University, Japan |
| 221 | Excess PPi in *fugu5* mutant triggers developmental defects cell-autonomously | Shizuka Gunji | Tokyo Gakugei University, Japan |
| 222 | Mechanical properties underlying flowering stem organogenesis: Genetic, histological approaches and future prospects | Ali Ferjani | Tokyo Gakugei University, Japan |
| 223 | *KARAPPO* encoding RopGEF is critical for the gemma development in the liverwort *Marchantia polymorpha*. | Takuma Hiwatashi | Kobe University, Japan |
| 224 | Novel rRNA processing factor APUM24 is key of nucleolar stress and sugar response in Arabidopsis thaliana | Shugo Maekawa | The University of Tokyo, Japan |
| 225 | Analysis of leaf shape variation for Japanese traditional leafy vegetables Mizuna and Mibuna (cultivars of *Brassica rapa* subsp. *nipposinica*) by genetic analysis and survey of historical literature. | Yaichi Kawakatsu | Kyoto Sangyo University, Japan |
| 226 | Functional characterization of Mp*bHLH40* in gemma dormancy of a liverwort *Marchantia polymorpha* | Mikako Yoshikawa | Kobe University, Japan |
| 227 | Analysis of transcription factor that regulates plant cell totipotency in Arabidopsis | Tsubasa Yamagata | Saitama University, Japan |
| 228 | A trihelix transcription factor GTL1 is the negative regulator for root hair growth | Michitaro Shibata | RIKEN, Japan |
| 229 | Exploration of genes regulating vegetative propagation in *Rorippa aquatica* | Rumi Amano | Kyoto Sangyo University, Japan |
| 230 | Analysis of the initiation of somatic embryogenesis in Arabidopsis shoot apical tip | Satoshi Kadokura | Tokyo University of Science, Japan |
| 231 | A unique microtubule structure regulating the phloem | Kaori Furuta | NARA Institute of |

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| | cell differentiation in Arabidopsis | | Science and Technology, Japan |
| 232 | Non canonical splicing depending on *DROL1* is required for the repression of seed maturation genes after germination in *Arabidopsis* | Takamasa Suzuki | Chubu university, Japan |
| 233 | Identification of a receptor-like protein kinase gene *ONION4* required for epidermis development in rice | Yukihiro Ito | Tohoku University, Japan |
| 234 | Nitrogen Utilization Efficiency of Arabidopsis Natural Variants | Shanhua Lin | Academia Sinica, Taiwan |
| 235 | Search for pathways to increase post mitotic cell expansion in leaf cells of Arabidopsis *angustifolia3* mutant | Kazune Ezaki | Tokyo University, Japan |
| 236 | Promotion of the Utilization of Proteins in the Rhizosphere by Overexpression of Aspartic Protease in *Arabidopsis thaliana* | Tatsuro Hamada | Ishikawa Prefectural University, Japan |
| 237 | Identification and molecular characterization of gene responsible for *bagel3* mutantion in *Arabidopsis thaliana* | Amit Kumar Dutta | Shimane University, Japan |
| 238 | Temperature stress differentially modulates transcription in shoot apical meristem of heat-tolerant and heat-sensitive broccoli inbred lines during floral head formation | Hao-Jen Huang | National Cheng Kung University, Taiwan |
| **Session 11 Cell/cycle/Cell division** | | | |
| 239 | Analysis of cohesin interaction factor in *Arabidopsis thaliana* | Takayoshi Suzuki | Tokyo University of Science, Japan |
| 240 | Functional analysis of HR0109 transcription factor related to plant cell patterning | Mikiya Takahashi | Saitama University, Japan |
| 241 | Establishment of cell cycle tracking line in Arabidopsis | Tamako Yamaoka | Tokyo University of Science, Japan |
| 242 | A Critical Role of ANAC082 as a Ribosomal Stress Response Mediator Leading to Growth Defects and Developmental Alterations in Arabidopsis | Iwai Ohbayashi | Tokyo Gakugei University, Japan |
| 243 | Localized cell proliferation and growth regulate root vascular bundle cell patterning. | Motohiro Fujiwara | Osaka University, Japan |
| 244 | ASHH2 controls Arabidopsis shoot regeneration through photosynthesis/light and glucose metabolism pathways | Yuki Katsuyama | Tokyo University of Science, Japan |
| 245 | Regulatory mechanism of interphase centromere distribution in *Arabidopsis thaliana* | Tomoe Yamashita | Tokyo University of Science, Japan |
| 246 | Functional analysis of proper centromere distribution in *Arabidopsis thaliana* | Yuka Oko | Tokyo University of Science, Japan |
| 247 | Mutations in 26S proteasome subunits cause tuberous root formation under the stress condition in *Arabidopsis thaliana* | Takuya Sakamoto | Tokyo University of Science, Japan |
| 248 | Primary target for the photoregulation of cell cycle progression is cyclin D gene expression in the liverwort *Marchantia polymorpha* | Ryuichi Nishihama | Kyoto University, Japan |
| 249 | Size-mediated cell cycle control by a SUMO protease in | Yen-ling Lin | Academia Sinica, |

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| | the unicellular green alga *Chlamydomonas reinhardtii* | | Taiwan |
| **Session 12 Transcriptional and post-transcriptional regulation, Epigenetic regulation, Systems biology, Protein modification and degradation** | | | |
| 250 | Distinct roles of histone chaperones of NAP1 in plant during chromatin assembly | Zhao Xue Yang | Nagoya City University, Japan |
| 251 | Massive identification of promoter switching in Arabidopsis and rice | Kazutaka Kusunoki | Gifu University, Japan |
| 252 | Autophosphorylation Affects Substrate-Binding Affinity of Tobacco $Ca^{2+}$-Dependent Protein Kinase1 | Takeshi Ito | Hiroshima University, Japan |
| 253 | *In vitro* analysis of light-dependent transcription from plant nuclear encoded gene | Ayaka Ido | Nagoya City University, Japan |
| 254 | AT-HOOK MOTIF NUCLEAR LOCALIZED (AHL) transcription factors repress petiole elongation | David Favero | RIKEN, Japan |
| 255 | Biochemical characterization of microRNA precursor processing by Dicer-Like 1 in Arabidopsis | Rikako Hirata | Osaka Prefecture University, Japan |
| 256 | Two-step proteolytic processing for activation of bZIP28, an Arabidopsis membrane-bound transcription factor | Yuji Iwata | Osaka Prefecture University, Japan |
| 257 | Analysis of timing for activation of the imprinted *FWA* gene during female gametogenesis in *Arabidopsis thaliana* | Ishie Maki | Yokohama City University, Japan |
| 258 | Nutrient deficiency affects Dicer activities, post-transcriptional gene silencing and virus propagation in plants | Toshiyuki Fukuhara | Tokyo University of Agriculture and Technology, Japan |
| 259 | Exploration of transcription factor binding sites on the promoter region of zinc responsive genes in *Arabidopsis thaliana* | Ai Oozawa | Ritsumeikan University, Japan |
| 260 | TARPs regulate developmental gene expression via siRNA-transposon modules | Takahiro Hamada | Tokyo University, Japan |
| 261 | Genomic dissection and prediction of transcriptome dynamics under field conditions | Atsushi Nagano | Ryukoku University, Japan |
| 262 | Analysis of DNA demethylase mutants in rice | Yuichi Fukuda | Yokohama City University, Japan |
| 263 | *Arabidopsis* trichome pattern as a consequence of the coordination of the multiple gene regulatory networks | Yuko Toyama | Tokyo University of Science, Japan |
| 264 | The interaction between DCL3/4 enzyme activities and pigmentation pattern of petal. | Midori Tabara | Tokyo University of Agriculture and Technology, Japan |
| 265 | AS-seq Profiles of Three Sex-Related Loci on the 3rd Whorl of Different Sex Types of *Carica Papaya* L. | Hui Jun Lin | National Pingtung University of Science and Technology, Taiwan |
| 266 | The histone demethylase JMJ28 regulates flowering time and transposon silencing in *Arabidopsis*. | Sun Hua-Chung | National Taiwan University, Taiwan |
| 267 | Network analysis of a transcription factor in the liverwort, Marchantia polymorpha, provides insights into the evolution of gene | Haruka Arai | Tokyo University of Science, Japan |

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| | regulatory networks. | | |
| 268 | HISTONE DEACETYLASE6 Acts in Concert with Histone Methyltransferases SUVH4, SUVH5, and SUVH6 to Regulate Transposon Silencing | Ready Tai | National Taiwan University, Taiwan |
| 269 | Analysis of the rice FLO2 complex that may regulate the productivity of seed storage substances | Rintaro Suzuki | Tokyo University of Science, Japan |
| 270 | LDL1 and LDL2 interact with CCA1/LHY and regulate the circadian clock central oscillators in *Arabidopsis* | Fu-Yu Hung | National Taiwan University, Taiwan |
| 271 | The Activity and Function of Histone Deacetylase 15 Are Negatively Regulated by Phosphorylation in Arabidopsis | Yi-Tsung Tu | National Taiwan University, Taiwan |
| 272 | Identification and functional study of tomato SlMYB15 transcription factor | Chun-Chi Hsia | Fu Jen Catholic University, Taiwan |
| 273 | Developmental- and tissue-specific expression of NbCMT3-2 encoding a chromomethylase in Nicotiana benthamiana | Yu Wen Jing | National Changhua University of Education, Taiwan |
| 274 | Alternative Splicing Influences The Transcript Diversity in Early Photomorphogenic Growth | Sim Lin Lim | Academia Sinica, Taiwan |
| 275 | Acquisition of shoot regenerative competency is regulated by histone demethylation in *Arabidopsis* | Hiroya Ishihara | Tokyo University of Science, Japan |
| 276 | Two ER-bound transcription factors bZIP17 and bZIP28 jointly determine plant root elongation and cell growth genes expression in *Arabidopsis thaliana*. | June-Sik Kim | RIKEN CSRS, Japan |
| 277 | Study of the Proteolytic Processing of Pathogenesis – Related Protein 1 (PR1) into a Bioactive peptide in Arabidopsis thaliana | Hung-Yu Wang | National Taiwan Ocean University, Taiwan |
| 278 | Analysis of an epigenetic regulator involved in tissue variation of shoot regeneration competency in *Arabidopsis thaliana* | Toyoda Yuma | Tokyo University of Science, Japan |
| 279 | The Roles of Histone Deacetylase for Greening and Shoot Formation in *Arabidopsis de novo* Organ Regeneration | Haruka Temman | Tokyo University of Science, Japan |
| 280 | A CCR4 association factor 1, OsCAF1B, involves in mRNA poly(A) tail shortening and cold tolerance mechanisms in rice | Jhen-Cheng Fang | National Central University, Taiwan |
| 281 | Live cell imaging of histone modification and chromatin dynamics in plants | Sachihiro Matsunaga | Tokyo University of Science, Japan |
| 282 | Light-mediated seedling development regulated by AtJP1, a histone H3K4 demethylase, in Arabidopsis thaliana | Md. Torikul Islam | Academia Sinica, Taiwan |
| 283 | Wobble U34 modification of plant cytosolic tRNAs and their possible effects on leaf morphogenesis | Yumi Nakai | Osaka Medical College, Japan |
| 284 | Evolutionary conservation of inductive expression mechanisms on the phytoalexin biosynthetic gene cluster in *Oryza* family | Shiho Tomiyama | Tokyo University, Japan |
| 285 | A metabolomic study of the salinity effect on tomato (*Solanum lycopersicum*) | Georgia Tooulakou | FORTH / ICE-HT, Hellas |
| 286 | Seasonal analysis of genome-wide DNA methylation in | Tasuku Ito | Kyoto University, |

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| | natural population of perennial *Arabidopsis halleri* | | Japan |
| 287 | A Rice Metallothionein Transcriptional Enhancer Confers Sugar Responsiveness and Significantly Enhances the Act1 Promoter Activity for the Production of Human Fibroblast Growth Factor 1 in Transgenic Rice Cell | Peng-Wen Chen | National Chiayi University, Taiwan |
| 288 | Characterization of graft-transmissible microRNAs in Solanaceous species | Shu-Wen Lai | Academia Sinica, Taiwan |
| 289 | DCL2- and RDR6-dependent silencing of *SMXL4* and *SMXL5* in Arabidopsis *dcl4* mutants causes defective phloem transport and carbohydrate over-accumulation | Yu-Yi Wu | Academia Sinica, Taiwan |
| 290 | Identification of *Arabidopsis thaliana* genes with high and low levels of expression variation by comprehensive transcriptional analysis | Kohei Negishi | Tokyo University of Science, Japan |
| 291 | Gene expression variation influences the regularity of trichome patterns in *Arabidopsis thaliana*. | Shotaro Okamoto | Tokyo University of Science, Japan |
| 292 | The role of a DEAD-box like RNA helicase induced by cold stress involving in rice mRNA splicing | Huang Tian Sheng | National Central University,Taiwan |
| 293 | Global Analysis of Truncated RNA Ends Reveals New Insights into Ribosome Stalling in Plants | Wen-Chi Lee | Academia Sinica, Taiwan |
| 294 | Examine molecular regulation of SWEET2 function in Arabidopsis. | Ya-Fen Chan | National Cheng Kung University, Taiwan |
| 295 | Identification of full-length splicing variants involved in Arabidopsis photomorphogenic development | Chun-Kai Huang | Academia Sinica, Taiwan |
| 296 | Transcriptional and post-transcriptional regulation of Arabidopsis in response to iron deficiency | I-Chun Pan | National Chung Hsing University, Taiwan |
| 297 | Protease activities in rice suspension cells for expression of human transcription factor OCT4 | David Marpaung | Yuan Ze University, Taiwan |
| 298 | Global analysis of small RNAs and their targets for regulatory network controlling in floral symmetry in *Sinninigia speciosa* | Ya-Chi Nien | National Taiwan University, Taiwan |
| 299 | Knockdown of a Transcription Repressor, *OsMYBS2*, to Increase Recombinant Protein Production Driven by *αAmy3* Promoter in Rice Suspension Cultured Cells | Desyanti Sinaga | Yuan Ze University, Taiwan |
| 300 | A novel gene in $C_{28}$ isoprenoid biosynthesis in Solanaceae | Eva Knoch | RIKEN Center for Sustainable Resource Science, Japan |
| **Session 13 Reproductive growth, Flowering** | | | |
| 301 | Mutant panels of diploid and teteraploid wheats developed by heavy-ion beam mutagenesis and their application for genetic research | Koji Murai | Fukui Prefectural University, Japan |
| 302 | Identification of sex-determination gene in *Asparagus officinalis* | Kohji Murase | The University of Tokyo, Japan |
| 303 | PHD finger protein aHiTAP1 is a novel flowering regulator of *Arabidopsis*. | Yuri Yokoyama | Nagoya City University, Japan |

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| 304 | Comparison of Cell Proliferation Control between Leaves and Floral Organs in Arabidopsis | Ayaka Kinoshita | The University of Tokyo, Japan |
| 305 | Intracellular targeting of plant mobile mRNA to plasmodesmata for cell-to-cell movement | Kai-Ren Luo | Academia Sinica, Taiwan |
| 306 | Functional Analysis of Tomato Flowering Genes of FT-clade. | Chie Moriya | Okayama Prefecture, Japan |
| 307 | Analysis of *SNB1* transcription factor that induces parthenocarpy | Hibari Hayashi | Saitama University, Japan |
| 308 | Identification and characterization of the novel pollen-stigma recognition factors for unilateral incompatibility in *Brassica rapa*. | Yoshinobu Takada | Tohoku University, Japan |
| 309 | Evolutionarily conserved MYB transcription factors regulate female differentiation in land plants | Tetsuya Hisanaga | NARA Institute of Science and Technology, Japan |
| 310 | Cytosolic phosphoglucose isomerase is essential for embryogenesis and microsporogenesis in *Arabidopsis* | Hung-Chi Liu | Academia Sinica, Taiwan |
| 311 | Interaction of WRKY63 with HISTONE DEACETYLASE6 in flowering time control in *Arabidopsis* | Pei-Yu Lin | National Taiwan University, Taiwan |
| 312 | Whole genome SNP-INDEL assay of Phalaenopsis orchidsto screen candidate genes related to mutant flower traits | Yi Hui Lee | National Pingtung University of Science and Technology, Taiwan |
| 313 | Iron deficiency disrupts tapetum function to cause reduction of viable pollen | Tzu-Hsiang Huang | Academia Sinica, Taiwan |
| 314 | The role of MOS4 in flowering time regulation in *Arabidopsis* | Yu Sung-yen | National Taiwan University, Taiwan |
| 315 | Establishment of systems to study transcriptional, epigenetic and mitochondrial regulation in tapetum during pollen development | Hsiu-chen Chen | Academia Sinica, Taiwan |
| 316 | Development of transgenic plants to visualize cytokinin signaling in rice | Moeko Sato | Yokohama City University, Japan |
| 317 | An L-arabinokinase activity of CAP1 required for pollen development in rice | Kenji Ueda | Akita Prefectural University, Japan |
| 318 | A conserved genetic pathway CDF-GI-FKF determines photoperiodic growth-phase transition in the liverwort *Marchantia polymorpha*. | Yoshihiro Yoshitake | Kyoto University, Japan |
| 319 | The endoplasmic reticulum-localized dolichol kinase AtDOK1 is involved in flowering time control | Yueh Cho | Academia Sinica, Taiwan |
| 320 | A long non-coding RNA module that links sex chromosomes to sex differentiation in the liverwort *Marchantia polymorpha* | Keitaro Okahashi | Kyoto University, Japan |
| 321 | A pair of non-specific phospholipases C, NPC2 and NPC6, involved in gametophyte development and glycerolipid metabolism in Arabidopsis | Hai Anh Ngo | Academia Sinica, Taiwan |
| 322 | Synergid cell controls the destination of sperm cell discharge. | Daichi Susaki | Yokohama City University, Japan |
| 323 | Possible contribution of a paternally expressed AP2-type transcription factor to early zygotic development in rice | Md Hassanur Rahman | Tokyo Metropolitan University, Japan |

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| **Session 14 Primary metabolism, Secondary metabolism** | | | |
| 324 | The mechanisms underlying growth promotion in chitin-treated plants | Hironori Kaminaka | Tottori University, Japan |
| 325 | Nitrate may regulate *de novo* biosynthesis of $NAD^+$ in Arabidopsis | Saito Moriaki | The University of Tokyo, Japan |
| 326 | Functional analysis of the NIN-like protein family for transcription factors responsible for nitrate response in Arabidopsis | Okitsu Takayuki | The University of Tokyo, Japan |
| 327 | Spatial distribution of glucosinolates in the inner region of the *Arabidopsis* leaf | Tomomi Ichinose | Kyushu University, Japan |
| 328 | Coordination of sulfur metabolism responding to the sulfate availability in the environments | Akiko Maruyama-Nakashita | Kyushu University, Japan |
| 329 | The Role of Chlorophyll Dephytylase (CLD) in Tocopherol Biosynthesis | Yao-Pin Lin | Academia Sinica, Taiwan |
| 330 | Glutamine-induced Repression of a High-affinity Nitrate Transporter Gene Promoter in *Arabidopsis* | Pengcheng Guo | The University of Tokyo, Japan |
| 331 | The importance of phosphatidylglycerol (PG) on photosynthesis and root development in *Arabidopsis thaliana* | Ying-Chen Lin | Academia Sinica, Taiwan |
| 332 | Metabolic Analysis of Primary Metabolomic Pathways during Xylem Vessel Cell Differentiation | Abigail Loren Uy | NARA Institute of Science and Technology, Japan |
| 333 | Idioblast and laticifer cells play important roles in alkaloid biosynthesis in *Catharanthus roseus* | Kotaro Yamamoto | John Innes Centre, United Kingdom |
| 334 | Tissue specific transcriptome analyses of Asian Lacquer tree | Yoko Ishizaki | Kyoto Prefectural University, Japan |
| 335 | Molecular evolution of biosynthetic pathway of lysine-derived alkaloids | Mami Yamazaki | Chiba University, Japan |
| 336 | A dual-repeat motif is crucial to the promoter activity of *Geranyl Diphosphate Synthase* for monoterpene biosynthesis in *Phalaenopsis* orchids | Yu-Chen Chuang | National Cheng Kung University, Taiwan |
| **Session 15 Ecophysiology, Bioresources, Emerging technologies, Crop and Agriculture** | | | |
| 337 | MutMapPlus Identified Novel Mutant Alleles of a Rice Starch Branching Enzyme IIb Gene for Fine-tuning of Cooked Rice Texture. | Hiromoto Yamakawa | National Agriculture and Food Research Organization, Japan |
| 338 | Different features of field cold acclimation between deciduous and evergreen broad-leaved trees | Ayano Sasaki | Iwate University, Japan |
| 339 | The effect of polyphenol oxidase activity and tea making process on tea infusion color. | Chung-Tse Chen | National Cheng Kung University, Taiwan |
| 340 | Genetic analysis of the large grain mutant found in transposon-tagged lines of rice | Wan-Yi Chiou | Okayama University, Japan |
| 341 | Application of SaCas9 and FnCpf1 for genome editing in plants | Masafumi MIkami | National Agriculture and Food Research Organization, Japan |
| 342 | Genome editing for improvement of plant function using CRISPR/CAS9 | Yuriko Osakabe | Tokushima University, Japan |

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| 343 | RIKEN BRC collection of plant cultured-cell lines: Project in 2017 | Toshihiro Kobayashi | RIKEN BRC, Japan |
| 344 | Protein introduction into plant cells by the irradiation of temperature-controlled atmospheric $CO_2/N_2$ plasma | Yuki Yanagawa | National Agriculture and Food Research Organization, Japan |
| 345 | Data driven crop design technology | Takashi Hirayama | Okayama University, Japan |
| 346 | The fermentation waste of *Lactobacillus paracasei* No-2 was capable of inducing plant growth and promote plant defense mechanism against biotic and abiotic stress simultaneous. | Kuo-An Lai | National Taitung University, Taiwan |
| 347 | Exploring the pre-vascular function of the TMO5/LHW module in non-vascular plant Marchantia polymorpha | Kuan-Ju Lu | Wageningen University and Research, Nederland |
| 348 | Modification of chloroplast DNA in plants by using transcription activator like effector nuclease | Shih-Syuan Chen | National Cheng Kung University, Taiwan |
| 349 | Expression of β-glucosidase from thermophilic archaeon Sulfolobus solfataricus in transgenic tobacco | Huang Tzu-Ling | National Cheng Kung University, Taiwan |
| 350 | Use of the CRISPR/Cas9 editing system to knock out DELLA and cytokinin oxidase genes in Phalaenopsis aphrodite subsp. formosana | Chien-ying Chen | National Cheng Kung University, Taiwan |
| 351 | Evaluation of a CRISPR/Cas9 vector system using the translational enhancer, dMac3 | Hirishi Teramura | Tokyo University, Japan |
| 352 | Developing the molecular identification for litchi cultivars using NGS miseq data | JenYu Chang | Taiwan Agricultural Research Institute, Taiwan |
| 353 | Establishment of Genotyping Services Platform for Tomato Disease Resistance Breeding | Zi-Jung Chiu | Academia Sinica, Taiwan |
| 354 | Genetic Study on the Yellow Endosperm Mutant and Breeding to Add the Aroma Trait in Rice | Cheng-Chou Yu | National Chung Hsing University, Taiwan |
| 355 | High-efficient genome editing using CRISPR/Cas9 targeting functional genes in tomato. | Risa Ueta | Tokushima University, Japan |
| 356 | The rice reference genome revisited: extensive update by the PacBio SMRT sequencing technology | Takeshi Itoh | NARO Advanced Analysis Center, Japan |
| 357 | A New Approach for Better Identification of Plant Endogenous Peptides using Tandem Mass Spectrometry | Ying-Lan Chen | Academia Sinica, Taiwan |
| 358 | Application of Maize IRES for Multiple Enzymes Translation to Produce Ectoine in Rice Cells | Shu Yao Liao | Yuan Ze University, Taiwan |
| 359 | Nucleic acid detection of genetically modified crops by an ion-exchange nanomembrane sensor | Wenshan Huang | Yuan Ze University, Taiwan |
| 360 | Proteomic comparison of recombinant inbred lines gives insights into bruchid resistance of mungbean | Mao-Sen Liu | Academia Sinica, Taiwan |