General Presentations

Program of Oral Presentations

- Each presentation is 12-min talk and 2-min 30-sec discussion, allowing a 30-sec interval for speaker changes in a 15-min slot. To keep the session on time, please strictly concern the time limits.

1st Bell	10 min	
2nd Bell	12 min	End of Talk
3rd Bell	14 min 30 sec	End of Discussion

- Before the presentation, please check your slides in the Preview rooms on the first or second floor. No staff is attending the Preview rooms. For questions, please visit the Conference Secretariat room on the 2nd floor.

- Chairpersons are requested to come to the assigned sessions at least 15 minutes before the start time, and to notify the staff of your attendance. Please assign a chairperson to each presentation prior to the Annual Meeting.

- Chairpersons are listed at the end of Program of Oral Presentations.

● Day 1, Wed., March 28, AM (9:30–12:30)

Time	Room A	Room B	Room C	Room D	Room E	Room F
	Symposium S01 RNA-mediated Plant Behaviors (9:30–12:30)	Symposium S02 Optimum Photosynthetic Evolution: Lessons from the Evolution of C4 Photosynthesis and the Response to CO_2/O_2 in Plants (9:30–12:30)	Environmental responses/Abiotic stresses (Gravity/UV/Others)	Organelles/Cytoskeletons	Plant-microbe interaction (Symbiosis/Others)	Vegetative growth
9:30			1aC01 An ABC Transporter B Family Protein, ABCB19, Is Required For Organ Straightening. Chikako Ida[1], Haruko Ueda[1], Tomoo Shimada[2], Kentaro Tamura[2], Miyo T. Morita[3], Ikuko Hara-Nishimura[1] ([1]Fac. Sci. Eng, Konan Univ,, [2]Grad. Sch. Sci., Kyoto Univ., [3]Grad. Sch. Bioagri. Sci., Nagoya Univ.)	1aD01 Regulation of chloroplast ppGpp synthesis during early leaf development in rice Kazuhiro Ito[1], Doshun Ito[2], Shinji Masuda[3], Koh Iba[1], Kensuke Kusumi[1] ([1]Dept. Biol. Fac. Sci. Kyushu Univ., [2]Dept. Life Science & Technology, Tokyo Institute of Technology, [3]Center for Biological Resources & Informatics, Tokyo Institute of Technology)	1aE01 E Microbial volatiles modulate rapid responses in Arabidopsis through thiol oxidation of cysteines as revealed by quantitative site-specific redox proteomics Marouane Baslam[1,2], Kinia Ameztoy-Del Amo[3], Kentaro Kaneko[2], Francisco Jose Munoz[3], Angela Maria Sanchez-Lopez[3], Edurne Baroja-Fernandez[3], Toshiaki Mitsui[1,2], Javier Pozueta-Romero[3] ([1]Grad. Sch. of Sci. and Tech., Niigata Univ., Niigata, Japan, [2]Faculty of Agriculture, Niigata University, Niigata, Japan, [3]Institute of Agrobiotechnology (IdAB), Pamplona, Spain)	1aF01 E Wound-induced cellular reprogramming in Arabidopsis Akira Iwase[1], Bart Rymen[1], Momoko Ikeuchi[1], Ayako Kawamura[1], Takamasa Suzuki[2], Nobutaka Mitsuda[3], Keiko Sugimoto[1] ([1]RIKEN CSRS, [2]Dept. of Biological Chemistry Biosci. and Biotech., [3]Bioproduction Research Institute, AIST)
9:45			1aC02 Functional analysis of *LZY3* in gravitropism using estradiol-inducible XVE system Ryuichiro Oshida[1], Chiemi Kondo[2], Takeshi Nishimura[1,3], Moritaka Nakamura[1,3], Masahiko Furutani[1,4], Masatoshi Taniguchi[1], Miyo T. Morita[1,3] ([1]Grad. Sch. Bioagri. Sci., Nagoya Univ., [2]Sch. Agri., Nagoya Univ., [3]JST-CREST, [4]Col. Life Sci., Fujian Agriculture and Forestry Univ.)	1aD02 Eukaryotic lipid metabolic pathway is essential for functional guard cell chloroplasts and stomatal CO_2 response in Arabidopsis thaliana Juntaro Negi[1], Shintaro Munemasa[2], Boseok Song[1], Ryosuke Tadakuma[1], Mayumi Fugita[1], Kensuke Kusumi[1], Ikuo Nishida[3], Julian Schroeder[2], Koh Iba[1] ([1]Department of Biology, Faculty of Sciences, Kyushu University, [2]University of California, San Diego, [3]Graduate School of Science and Engineering, Saitama University)	1aE02 Gibberellin-mediated regulation of mycorrhizal symbiosis in *Bletilla striata* (Orchidaceae) Chihiro Miura[1], Tatsuki Yamamoto[2], Masaya Honjo[2], Katsushi Yamaguchi[3], Yuri Kanno[4], Takahiro Yagame[5], Masahide Yamato[6], Mitsunori Seo[4], Shuji Shigenobu[3], Hironori Kaminaka[1] ([1]Fac. Agr., Tottori Univ., [2]Grad. Sch. Agr., Tottori Univ., [3]NIBB, [4]RIKEN CSRS, [5]Mizuho Kyo-do Mus., [6]Fac. Edu., Chiba Univ.)	1aF02 E Wound-induced WOX plays key roles in callus growth and organ regeneration in *Arabidopsis thaliana* Momoko Ikeuchi, Akira Iwase, Keiko Sugimoto (RIKEN CSRS)
10:00			1aC03 Expression Analysis of LZY3, a Key Regulator of Gravity Signaling, in Lateral Root Growth Chiemi Kondo[1], Masahiko Furutani[2,3], Takeshi Nishimura[2,4], Moritaka Nakamura[2,4], Ryuichiro Oshida[2], Masatoshi Taniguchi[2], Miyo T. Morita[2,4] ([1]Sch. Agr., Nagoya Univ., [2]Grad. Sch. Bioagri. Sci., Nagoya Univ., [3]Col. Life Sci., Fujian Agriculture and Forestry Univ., [4]JST-CREST)	1aD03 Regulatory mechanism of chloroplast development in *Arabidopsis* roots by a GATA transcription factor GNL Ai Onishi, Koichi Kobayashi, Hajime Wada (Grad. Sch. Arts Sci., Univ. Tokyo)	1aE03 E Analysis of Arabidopsis high-affinity phosphate transporters induced by the root-beneficial endophyte *Colletotrichum tofieldiae* Kei Hiruma[1,2], Yusuke Saijo[1] ([1]NAIST, [2]JST, PRESTO)	1aF03 Analysis of RSE1 (REPRESSOR OF SOMATIC EMBRYOGENESIS 1) transcription factor that control cell totipotency in Arabidopsis Tsubasa Yamagata[1], Miho Ikeda[1], Masaru Ohme-Takagi[1,2] ([1]Grad. Sch. Sci. Eng., Univ. Saitama, [2]Advanced Inst. Sci. Technol)
10:15			1aC04 Functional Analyses of LZY and RLD involved in gravity signaling Masahiko Furutani[4], Takeshi Nishimura[1,2], Masatoshi Taniguchi[1], Yoshinori Hirano[2,3], Toshio Hakoshima[3], Miyo T. Morita[1,2] ([1]Grad. Sch. Bioagri. Sci., Univ. Nagoya, [2]JST-CREST, [3]Grad. Sch. Biosciences, NAIST, [4]Col. Life Sci., Fujian Agriculture and Forestry Univ.)	1aD04 Regulation of photosynthesis-associated nuclear genes and chlorophyll content by *CONSTANS-LIKE* genes in *Arabidopsis* Hiroko Kinoshita, Humika Nishida, Yasuko Ito-Inaba, Takehito Inaba (Fac. Agr., Univ. Miyazaki)	1aE04 E Natural variations of nutrition-dependent interactions with a root-colonizing endophytic fungus in *Arabidopsis thaliana* Shion Yamaguchi[1], Shigetaka Yasuda[1], Nozomi Kitagawa[1], Mutsumi Watanabe[1], Takayuki Tohge[1], Kei Hiruma[1,2], Yusuke Saijo[1] ([1]NAIST, [2]JST, PRESTO)	1aF04 Functional analysis of Mp*ESR* during regeneration in *Marchantia polymorpha* Sakiko Ishida[1], Shohei Yamaoka[1], Katsushi Yamaguchi[2], Shuji Shigenobu[2], Mikiko Kojima[3], Yumiko Takebayashi[3], Hitoshi Sakakibara[3], Takayuki Kohchi[1], Ryuichi Nishihama[1] ([1]Grad. Sch. Biostudies, Kyoto Univ., [2]Func. Genomics Fac., NIBB, [3]CSRS, RIKEN)
10:30			1aC05 Screening of RLD interactor identifies novel BRX-domain interacted proteins BRIP family in Arabidopsis Takeshi Nishimura[1,2], Miyo T. Morita[1,2] ([1]Grad. School of Bioagr. Sci., Nagoya Univ., [2]CREST, JST)	1aD05 Regulation of *TOC* and *TIC* genes and plastid protein import by blue light Hitoshi Fukazawa, Akari Tada, Yasuko Ito-Inaba, Takehito Inaba (Fac. Agr., Univ. Miyazaki)	1aE05 E Tryptophan metabolite-based control of endophytic fungi in beneficial association with *Arabidopsis thaliana* Shigetaka Yasuda[1], Kei Hiruma[1,2], Shion Yamaguchi[1], Tae Hong Lee[1], Kazuhiko Semba[3], Mutsumi Watanabe[1], Takayuki Tohge[1], Yoshiaki Nakao[3], Yusuke Saijo[1] ([1]Grad. Sch. Biol. Sci., NAIST, [2]JST PRESTO, [3]Grad. Sch. Eng., Kyoto Univ.)	1aF05 Role of RopGTPase signaling in the initial stage of gemma development in *Marchantia polymorpha* Takuma Hiwatashi[1], Li Quan Koh[2], Hidehiro Fukaki[1], Tetsuro Mimura[1], Takayuki Kohchi[3], Daisuke Urano[2], Kimitsune Ishizaki[1] ([1]Grad. Sch. Sci., Univ. Kobe, [2]Temasek LifeScience Labo, [3]Grad. Sch. Bio., Univ. Kyoto)
10:45			1aC06 Omeprazole: a gastric H^+-ATPase inhibitor, enhances sensitivity to mechanical stimulation in *Arabidopsis* roots. Takashi Okamoto[1], Shogo Takatani[1], Yoshiteru Noutoshi[2], Hiroyasu Motose[1], Taku Takahashi[1] ([1]Grad. Sch. of Sci. and Tech., Okayama Univ., [2]Grad. Sch. of Env. and Life Sci., Okayama Univ.)	1aD06 Functional analyses of Lipocalins using over-expression and virus-induced gene silencing in tomato Anung Wahyudi[2], Dinni Aryani[3], Chikako Fukasawa[1], Ryohei Nakano[4], Reiko Motohashi[1,2,3] ([1]Faculty of Agriculture, Shizuoka University, [2]Graduate School of Science and Technology, Shizuoka University, [3]Graduate School of Integrated Science and Technology, Shizuoka University, [4]Faculty of Agriculture, Okayama University)	1aE06 Strigolactone biosynthesis genes of rice is required for the punctual entry of arbuscular mycorrhizal fungi into the roots Yoshihiro Kobae[1,3], Hiromu Kameoka[2,3], Yusaku Sugimura[4], Katsuharu Saito[4], Ryo Ohtomo[1], Junko Kyozuka[3,5] ([1]Hokkaido, NARO, [2]NIBB, [3]Grad. Sch. Agr. Life Sci., Univ. Tokyo, [4]Fac. Agr., Shinshu Univ., [5]Grad. Life Sci., Tohoku Univ.)	1aF06 Analysis of eda1, a novel *Marchantia polymorpha* mutant with ectopic branching protrusions Yuya Mori[1], Kento Otani[1], Shohei Yamaoka[2], Ryuichi Nishihama[2], Takayuki Kohchi[2], Taku Takahashi[1], Hiroyasu Motose[1] ([1]Grad. Sch. Nat. Sci. & Tech., Okayama Univ., [2]Grad. Sch. Biostudies, Kyoto Univ.)

Room G	Room H	Room I	Room J	Time
Plant hormones/ Signaling molecules	Primary metabolism	Cell wall	Flowering/Clock	
1aG01 Ⓔ Ethylene signaling controls haustorium development and function in parasitic plant *Phtheirospermum japonicum* Songkui Cui[1,2], Ken Shirasu[2,3], Satoko Yoshida[1,2] ([1]Grad. Sch. Bio. Sci., NAIST, Japan, [2]CSRS, RIKEN, Japan, [3]Grad. Sch. Bio. Sci., Univ. Tokyo, Japan)	1aH01 A heat inducible lipase is involved in remodeling chloroplastic glycerolipids in Arabidopsis leaves under heat stress Yasuhiro Higashi[1], Yozo Okazaki[1], Kouji Takano[1], Fumiyoshi Myouga[1], Kazuo Shinozaki[1], Eva Knoch[1], Atsushi Fukushima[1], Kazuki Saito[1,2] ([1]RIKEN CSRS, [2]Grad. Pharm. Sci., Chiba Univ.)	1aI01 Functional Analysis of an Ubiquitin E3 Ligase FLY2 involved in Seed Coat Mucilage Modification in *Arabidopsis thaliana* Tadashi Kunieda[1,2,3], Ikuko Hara-Nishimura[2], Taku Demura[3], George W. Haughn[1] ([1]Dept. Bot., UBC, [2]Fac. Sci. Eng., Konan Univ., [3]Grad. Sch. Biol. Sci., NAIST)	1aJ01 Imaging of cytokinin signaling of shoot apical meristem in rice Moeko Sato, Naoko Fujita, Hiroyuki Tsuji (Kihara Institute for Biological Research, Yokohama City University)	9:30
1aG02 Ⓔ The role of Arabidopsis Dof2.1 transcription factor in the MeJA signaling pathway Mengna Zhuo, Yasuhito Sakuraba, Shuichi Yanagisawa (Biotechnology Research Center, The University of Tokyo)	1aH02 Triacylglycerol Lipase SDP1 Regulates Seed Oil Content and Fatty Acid Composition in Soybean Masatake Kanai[1], Tetsuya Yamada[2], Makoto Hayashi[3], Shoji Mano[1,4], Mikio Nishimura[1] ([1]NIBB, [2]Hokkaido Univ., [3]Nagahama Inst. Bio-Sci. Technol., [4]SOKENDAI)	1aI02 Development of pectin producing cells in anther and fruit dehiscence zones in Arabidopsis Fumika Ezuka, Sumie Ishiguro (Grad. Sch. Bio-Agric., Nagoya Univ.)	1aJ02 Comparative analysis of environmental responses at the shoot apex in various barley varieties under filed conditions Jun Ito[1], Yuko Nomura[1], Daisuke Saisho[2], Takashi Hirayama[2], Hiroyuki Tsuji[1] ([1]Kihara Institute for Biological Research, Yokohama City University, [2]IPSR, Okayama University)	9:45
1aG03 Ⓔ Hydroxycarlactone derivatives are potential substrates for MAX1 and LBO in strigolactone biosynthesis Kaori Yoneyama[1], Kohki Akiyama[2], Manami Mori[2], Xiaonan Xie[3], Satoshi Yamauchi[1], Hisashi Nishiwaki[1], Koichi Yoneyama[3], Takahito Nomura[3] ([1]Fac. of Agric., Ehime Univ., [2]Sch. of Life & Environ. Sci., Osaka Pref. Univ., [3]Ctr. for Biosci. Res. & Educ., Utsunomiya Univ.)	1aH03 Planteose metabolism in germinating seeds of Orobanchaceae root parasitic plants Atsuya Baba[1], Takumi Ogawa[1], Yukihiro Sugimoto[2,3], Daisaku Ohta[1], Atsushi Okazawa[1,3] ([1]Grad. Sch. Life Environ. Sci., Osaka Pref. Univ., [2]Grad. Sch. Agric. Sci., Kobe Univ., [3]SATREPS, JST/JICA)	1aI03 Characterization of Arabidopsis mutant of putative D-arabinose-5-phosphate synthesizing enzyme Toshiro Shimizu, Mizuki Noguchi, Masaru Kobayashi, Toru Matoh (Grad.Sch.Agr., Kyoto Univ)	1aJ03 Identification of amino acid residues required for the cell-to-cell movement of FLOWERING LOCUS T Shingo Kosaka, Mitsutomo Abe (Grad. Sch. Sci., Univ. Tokyo)	10:00
1aG04 Evolution of MAX1 enzymes in strigolactone biosynthesis Takahito Nomura[1,2], Kaori Yoneyama[1,3], Tomoyasu Sato[2], Akiyoshi Yoda[2], Xiaonan Xie[1,2], Narumi Mori[4], Kohki Akiyama[4], Kazunori Okada[5], Takao Yokota[6], Koichi Yoneyama[1] ([1]Ctr. for Biosci. Res. & Educ., Utsunomiya Univ., [2]Grad. Sch. of Agri., Utsunomiya Univ., [3]Fac. of Agri., Ehime Univ., [4]Grad. Sch. of Life & Environ. Sci., Osaka Pref. Univ., [5]Biotech. Res. Ctr., Univ. of Tokyo, [6]Dept. of Biosci., Teikyo Univ.)	1aH04 Betaine lipid Diacylglyceryl-N,N,N-trimethylhomoserine is Essential for Adaptation to Low Temperature and Phosphorus Deficiency in the Marine Microalga *Nannochloropsis oceanica* Hiroki Murakami, Takashi Nobusawa, Koichi Hori, Mie Shimojima, Hiroyuki Ohta (Sch. Life Sci. Tech., Tokyo Inst. Tech.)	1aI04 TMN1, a membrane protein of unknown function, is essential for pectin synthesis Akihiko Hiroguchi[1], Shingo Sakamoto[2], Nobutaka Mitsuda[2], Kyoko Miwa[1] ([1]Grad. Sch. Environ. Sci., Hokkaido Univ, [2]Bioprod. Res. Inst., Natl. Inst. Adv. Ind. Sci. & Tech. (AIST))	1aJ04 FE regulates H3K27me3 level at the *FT* locus through the interaction with one of H3K27me3 demethylase. Mio Shibuta, Ayako Watanabe-Taneda, Mitsutomo Abe (Grad. Sch. Sci., Univ. Tokyo)	10:15
1aG05 Analysis of crosstalk between gibberellin and jasmonate Jutarou Fukazawa, Maya Fujii, Koichiro Nishi, Ryota Mori, Yohsuke Takahashi (Grad.Sci., Univ. Hiroshima)	1aH05 Ⓔ Target of rapamycin (TOR) is a major signalling pathway that regulate starch accumulation in the unicellular red alga *Cyanidioschyzon merolae* Imran Pancha[1], Hiroki Shima[2], Nahoko Higashitani[3], Kazuhiko Igarashi[2], Atsushi Higashitani[3], Kan Tanaka[1], Sousuke Imamura[1] ([1]Tokyo Institute of Technology, [2]Tohoku University Graduate School of Medicine, [3]Graduate School of Life Science, Tohoku University)	1aI05 Gene identification of a *bor1-1* suppressor mutant #101 with decreased boron requirement in *Arabidopsis thaliana* Yuto Nozaki, Hiroya Funakawa, Izumi Aibara, Kyoko Miwa (Grad. Sch. Environ. Sci., Hokkaido Univ.)	1aJ05 Functional analysis of tomato flowering genes of FT clade Chie Moriya, Koji Goto (Research Inst. for Biological Sciences, Okayama Pref.)	10:30
1aG06 Functional analysis of cytokinin response regulators in *Marchantia polymorpha* Shiori S. Aki[1], Tatsuya Mikami[1], Ryuichi Nishihama[2], Mikiko Kojima[3], Yumiko Takebayashi[3], Hitoshi Sakakibara[3], Takayuki Kohchi[2], Masaaki Umeda[1,4] ([1]Graduate School of Biological Sciences, Nara Institute of Science and Technology, [2]Graduate School of Biostudies, Kyoto University, [3]RIKEN Center for Sustainable Resource Science, [4]JST, CREST)	1aH06 Metabolic flux analysis of lipid synthesis in isolated plastids from the red alga *Cyanidioschyzon merolae* Natsumi Mori[1,2], Takashi Moriyama[1,2], Naoki Sato[1,2] ([1]Univ. of Tokyo, Grad. School Arts Sciences, [2]JST, CREST)	1aI06 Analysis of ROP GTPase in secondary cell wall patterning Yoshinobu Nagashima[1,2], Satoru Tsugawa[3], Atsushi Mochizuki[3,4], Takema Sasaki[2], Hiroo Fukuda[1], Yoshihisa Oda[2,5] ([1]Gradu. Sch. Sci., Univ. Tokyo, [2]Cent. Fro. Res., NIG, [3]Theor. Biol. Lab., RIKEN, [4]CREST., JST, [5]Dep. Genetics., SOKENDAI)	1aJ06 Analysis of the role of the circadian clock in cell fate determination with single cell RNA-seq Kotaro Torii, Hanako Shimizu, Takashi Araki, Motomu Endo (Grad. Sch. Biostudies., Kyoto. Univ)	10:45

Ⓔ=Presentation in English

● Day 1, Wed., March 28, AM (9:30–12:30)

Time	Room A	Room B	Room C	Room D	Room E	Room F
	Symposium S01 RNA-mediated Plant Behaviors (9:30–12:30)	Symposium S02 Optimum Photosynthetic Evolution: Lessons from the Evolution of C4 Photosynthesis and the Response to CO_2/O_2 in Plants (9:30–12:30)	Environmental responses/Abiotic stresses (Gravity/UV/Others)	Organelles/Cytoskeletons	Plant-microbe interaction (Symbiosis/Others)	Vegetative growth
11:00			1aC07 Imaging of calcium ion dynamics to understand the memory system in the Venus Flytrap *Dionaea muscipula* Hiraku Suda[1,2], Kenji Fukushima[3], Hiroaki Mano[1], Masatsugu Toyota[4], Yosuke Tamada[1,2], Mitsuyasu Hasebe[1,2] ([1]Div. Evol. Biol., NIBB, [2]Sch. Sci., SOKENDAI, [3]Anschutz Medical Campus, CU, [4]Grad. Sch. Sci. & Eng., SU)	1aD07 Analysis of the regulatory mechanism of chloroplast gene expression using ribosome profiling Haruka Higashi, Yoshinobu Kato, Yoshiki Nishimura, Toshiharu Shikanai (Grad. Sch. Sci., Univ. Kyoto)	1aE07 Cell-type-specific regulation of nutrient uptake and metabolism in arbuscular mycorrhizal fungi Hiromu Kameoka[1,2], Taro Maeda[1,2], Nao Okuma[1,3], Masayoshi Kawaguchi[1,2,3] ([1]Symbiotic system, NIBB, [2]JST ACCEL, [3]SOKENDAI)	1aF07 Analysis of genes influencing stem-cell homeostasis in *Arabidopsis* Ryuji Tsugeki (Dept. Bot., Grad. Sch. Sci., Kyoto Univ.)
11:15			1aC08 CRISPR/Cas9-mediated knockout of motor organ-enriched genes in the sensitive plant *Mimosa pudica* Hiroaki Mano[1], Chao-Li Huang[2], Tomoaki Nishiyama[3], Shuji Shigenobu[4], Masatsugu Toyota[5], Mitsuyasu Hasebe[1,6] ([1]Div. Evol. Biol., NIBB, [2]Inst. Tropical Plant Sci., National Cheng Kung Univ., [3]ASRC, Kanazawa Univ., [4]Funct. Genomics. Fac., NIBB, [5]Grad. Sch. Sci. Eng., Saitama Univ., [6]Sch. Sci. SOKENDAI)	1aD08 Flexible network of chloroplast nucleoids captured by the micro-fluidic devise Yoshitaka Kamimura[1], Hitomi Tanaka[1], Yusuke Kobayashi[1,2], Toshiharu Shikanai[1], Yoshiki Nishimura[1] ([1]Lab. of Plant Mol. Genet., Dep. of Bot., Kyoto Univ., [2]Dep. of Cell Genet., National Institute of Genetics)	1aE08 Evidence of non-tandemly repeated rDNAs and their intragenomic heterogeneity in Rhizophagus irregularis Taro Maeda[1], Yuuki Kobayashi[1], Hiromu Kameoka[1], Nao Okuma[1,2], Naoya Takeda[3], Katsushi Yamaguchi[1], Takahiro Bino[1], Shuji Shigenobu[1,2], Masayoshi Kawaguchi[1,3] ([1]National Institute for Basic Biology, [2]The Graduate University for Advanced Studies [Sokendai], [3]Kwansei Gakuin University)	1aF08 Transcriptional Regulation of the *STM* Gene by the CUC1 And CUC2 Proteins during Embryonic Shoot Formation in *Arabidopsis* Ryosuke Iwamoto[2], Shun Watanabe[2], Mitsuhiro Aida[1] ([1]IROAST, Kumamoto Univ, [2]Grad Sch Biol Sci, NAIST)
11:30			1aC09 Identification of chloroplast target sequence of rice CPD photolyase and the sequence comparison between plant species Mamoru Hara[1], Yuki Takahashi[1], Mika Teranishi[1], Kana Miura[1], Sakuya Nakamura[1], Masanori Izumi[1,2,3], Jun Hidema[1] ([1]Grad. Sch. Life Sci., Tohoku Univ., [2]FRIS, Tohoku Univ., [3]PRESTO, JST)	1aD09 Improving the method for transformation of chloroplast by suppressing cellular degradation system Kazusato Oikawa[1], Yutaka Kodama[1,2], Keiji Numata[1] ([1]CSRS., Riken, [2]Bio.Edu.. Univ. Utsunomiya)	1aE09 A transcription factor involved in lateral root development may be required for nodule formation downstream of *Lotus japonicas* NODULE INCEPTION Takashi Soyano[1,2], Makoto Hayashi[3], Masayoshi Kawaguchi[1,2] ([1]NIBB, [2]SOKENDAI, [3]Yokohama Inst., RIKEN)	1aF09 *Arabidopsis* zinc-finger-like protein ASYMMETRIC LEAVES2 and two nucleolar proteins maintain gene body DNA methylation in the leaf polarity gene *ETTIN* (ARF3) Chiyoko Machida[1], Simon Vial-Pradel[1], Hiro Takahashi[2], Masataka Suzuki[1], Sayuri Ando[1], Shoko Kojima[1], Yasunori Machida[3] ([1]Graduate School of Bioscience and Biotechnology, Chubu University, [2]Graduate School of Medical Sciences, Kanazawa University, [3]Graduate School of Science, Nagoya University)
11:45			1aC10 E CPD accumulation is not directly related to induction of autophagy machinery Gonul Dundar[1], Sakuya Nakamura[1], Masanori Izumi[1,2,3], Jun Hidema[1] ([1]Grad. Sch. of Life Sci., Tohoku Univ, Japan, [2]FRIS, Grad. Agri. sci., Tohoku Univ., Japan, [3]JST, PRESTO)	1aD10 Finding a peptide exporter on the chloroplast envelope in Arabidopsis Kenji Nishimura[1], Takamasa Sekiya[2], Motoyuki Ishimori[3], Tsuneaki Takami[1], Yusuke Kato[1], Takaaki Miyaji[2], Wataru Sakamoto[1] ([1]IPSR, Okayama Univ., [2]Adv. Sci. Res. Center, Okayama Univ., [3]Grad. Sch. Agr. Life Sci., Univ. Tokyo)	1aE10 Searching genes responsible for the holdfast formation of a stem parasitic plant, *Cuscuta campestris* Daiki Fujiwara[1], Ryusuke Yokoyama[2], Kazuhiko Nishitani[2], Koh Aoki[1] ([1]Grad. Sch. of Life Environ. Sci., Osaka Pref. Univ., [2]Grad. Sci. of Life Sci., Tohoku Univ.)	1aF10 Zinc-finger-like protein ASYMMETRIC LEAVES2 (AS2) of Arabidopsis binds the CpG repeat in the coding region of leaf polarity gene ETTIN (ARF3) Yasunori Machida[1], Simon Vial-Pradel[2], Mika Nomoto[1], Yasuomi Tada[1], Shoko Kojima[2], Chiyoko Machida[2] ([1]Graduate School of Science, Nagoya University, [2]Graduate School of Bioscience and Biotechnology, Chubu University)
12:00			1aC11 E H_2SO_3 is the Chemical Species that Induces Stomatal Closure in Aqueous Solution of Sulfur Dioxide Izumi C. Mori, Lia Ooi (IPSR, Okayama Univ.)	1aD11 Relationship between galactolipids, chlorophylls and proteins during etioplast-chloroplast differentiation Sho Fujii[1], Koichi Kobayashi[1], Noriko Nagata[2], Tatsuru Masuda[1], Hajime Wada[1] ([1]Grad. Sch. Arts Sci., Univ. Tokyo, [2]Fac. Sci., Japan Women's Univ.)	1aE11 Expression of genes involved in vascular differentiation in haustorium of Cuscuta japonica Kohki Shimizu, Akitaka Hozumi, Koh Aoki (Grad. Sch. Life and environ. Sci., Osaka Pref. Univ.)	1aF11 Phenotypic Analysis of the AS2 Homologous Genes from Tomato and Rice in Arabidopsis thaliana Shoko Kojima[1], Minori Yoshida[2], Midori Mizuno[1], Yuki Yoshino[1], Michiko Sasabe[2], Yasunori Machida[3], Chiyoko Machida[1] ([1]Grad. Sch. Biosci. and Biotech., Chubu Univ., [2]Fac. of Agri. Life Sci., Hirosaki Univ., [3]Grad. Sch. Sci., Nagoya Univ.)
12:15			1aC12 E Sulfur dioxide-induced stomatal closure is mediated by guard cell death and the mechanism is unshared with ozone-induced closure Lia Ooi[1], Shintaro Munemasa[2], Yoshiyuki Murata[2], Izumi C. Mori[1] ([1]IPSR, Okayama Univ., [2]Grad. Sch. Env. Life Sci., Okayama Univ.)	1aD12 E The role of MORF proteins in the C to U RNA editosomes in plant organelles Mizuki Takenaka[1,2], Sascha Haag[2], Matthias Burger[2], Anja Joerg[2] ([1]Dep. of Bot., Grad. Sch. Sci., Kyoto Univ., [2]Mol. Bot., Univ. Ulm)	1aE12 Differentiation of vascular cells in haustoria of parasitic plants Koh Aoki, Minako Ekawa, Kohki Shimizu, Daiki Fujiwara, Subhankar Bera (Grad. Sch. Life Environ., Osaka Pref. Univ.)	1aF12 Effects of the age-dependent increase of leaf primordial power inhibiting new primordium initiation on phyllotactic pattern generation and its possible relation to the auxin transport-based model Takaaki Yonekura[1], Akitoshi Iwamoto[2], Hironori Fujita[3], Munetaka Sugiyama[1] ([1]Botanical Gardens, Grad. Sch. of Sci., Univ. Tokyo, [2]Dept. Biol., Tokyo Gakugei Univ., [3]Div. Symbiotic Systems, Natl. Inst. Basic Biol.)

Room G	Room H	Room I	Room J	Time
Plant hormones/ Signaling molecules	Primary metabolism	Cell wall	Flowering/Clock	
1aG07 Molecular mechanism of growth promotion induced by choline acetate in *Arabidopsis thaliana* Hiroshi Kodera[1], Mayu Kamimura[1], Takeshi Kobayashi[2], Fang-Sik Che[1] ([1]Nagahama Inst. of Bio-Sci. and Tech., [2]AGRO-KANESHO CO., LTD.)	1aH07 Stable isotope studies on the metabolism of starch and lipids in *Chlamydomonas debaryana* Naoki Sato[1], Masakazu Toyoshima[1,2] ([1]University of Tokyo, [2]Osaka University)	1aI07 Impacts of cell wall modifications on preferential xylem transport Satoshi Endo, Yumi Iwai, Hiroo Fukuda (Grad. Sch. Sci., Univ. Tokyo)	1aJ07 Role of the plant circadian clock in cellular differentiation Keisuke Inoue, Keita Bekki, Kotaro Torii, Hanako Shimizu, Takashi Araki, Motomu Endo (Grad. Sch. Biostudies, Univ. Kyoto)	11:00
1aG08 A role of endogenous IAA in regulating shoot regeneration competence in 2,4-D-induced callus of Arabidopsis. Yuki Sakamoto[1], Hiroyuki Kasahara[2], Munetaka Sugiyama[1] ([1]Bot. Gard., Grad. Sch. Sci., Univ. Tokyo, [2]GIR, Tokyo Univ. Agri. Tech.)	1aH08 Toward Efficient Production Of Triacylglycerol By Metabolic Engineering Of The Cyanobacterium *Synechocystis* sp. PCC 6803 So Tamura[1], Motoki Tanaka[2], Naoki Kato[2], Hishida Atsuko[2], Yukako Hihara[1] ([1]Grad. Sch. Sci. Eng., Saitama Univ., [2]Fac. Sci., Saitama Univ.)	1aI08 Fiber cell-specific expression of CEF4-VP16 alters primary cell wall thickening and lignin composition in inflorescence stems of Arabidopsis thaliana Miyuki Nakata[1], Shingo Sakamoto[1], Dagula Nuoen[2], Shinya Kajita[2], Nobutaka Mitsuda[1,3] ([1]AIST, [2]Tokyo Univ Agri Tech, Grad Sch BASE, [3]Saitama Univ, Grad Sch Sci Eng)	1aJ08 Functional analysis on receiver like domain of PSEUDO RESPONSE REGULATORs that are implicated in central oscillator function of the circadian clock in plants Yusuke Takata, Hiroki Hurukawa, Miyu Imamura, Yuto Mineno, Yuji Nomoto, Takahumi Yamashino (Grad. Sch. Sci., Univ. Nagoya)	11:15
1aG09 Examination of auxin-induced acid growth by a bump-and-hole method using modified TIR1 and synthesized auxin Koji Takahashi[1,2], Naoyuki Uchida[1,2], Shinya Hagihara[1,2], Ryotaro Yamada[1], Kenichiro Itami[1,2], Keiko Torii[1,2,3], Toshinori Kinoshita[1,2] ([1]Grad. Sch. Sci., Nagoya Univ., [2]ITbM, Nagoya Univ., [3]Dep. Biol., Univ. Washington, USA)	1aH09 Metabolic regulation by switching of the cyAbrB2 master transcriptional regulator in *Synechocystis* sp. PCC 6803 Yuta Kodama[1], Akihito Kawahara[2], Atsuko Miyagi[1], Kimie Tsuji[1], Kyoko Tanaka[1], Maki Kawai-Yamada[1], Yasuko Kaneko[1], Yukako Hihara[1] ([1]Grad. Sch. Sci. Eng., Saitama Univ., [2]Kao Co.)	1aI09 Complete substitution of a secondary cell wall with a primary cell wall in Arabidopsis Shingo Sakamoto[1], Marc Somssich[2], Faride Unda[3], Kimie Atsuzawa[4], Yasuko Kaneko[4], Miyuki Nakata[1,5], Ting Wang[3], Anne-Maarit Bågman[6], Gaudinier Allison[6], Koki Yoshida[7], Siobhan Brady[6], Shawn Mansfield[3], Staffan Persson[2], Nobutaka Mitsuda[1] ([1]Bioprod. Res. Inst., AIST, [2]Sch. Biosci., Univ. Melbourne, [3]Fac. Forest., Univ. British Columbia, [4]Grad. Sch. Sci. Eng., Saitama Univ., [5]Max-Planck Inst., [6]Dep. Plant Biol. Genome Center, UC Davis, [7]Technol. Center, Taisei Corp.)	1aJ09 Analysis of cell-autonomy of the circadian clock in Arabidopsis leaves Masaaki Okada, Tokitaka Oyama (Dept. of Bot., Grad. Sch. of Sci., Kyoto Univ.)	11:30
1aG10 Femto-molar stimulants for seed germination in a parasitic plant Striga Yuichiro Tsuchiya[1], Daisuke Uraguchi[2], Keiko Kuwata[1], Takashi Ooi[1,2], Toshinori Kinoshita[1,3] ([1]ITbM, Nagoya U, [2]Grad. Sch. Eng., Nagoya U, [3]Grad. Sch. Sci., Nagoya U)	1aH10 Development of milking strategy for sustainable production of biofuel using genetically engineered cyanobacteria Akihiro Kato[1,4], Nobuyuki Takatani[1,4], Kazutaka Ikeda[2,4], Makiko Aichi[3,4], Shin-ichi Maeda[1,4], Tatsuo Omata[1,4] ([1]Grad. Sch. Bioagr. Sci., Nagoya Univ., [2]Lab, for Metabolomics, RIKEN center for Integr, Med. Sci., [3]Col. of Biosci. and Biotech., Chubu Univ., [4]JST MIRAI)	1aI10 Feedback regulation in secondary cell wall thickening in poplar Naoki Takata[1], Tatsuya Awano[2], Natsumaro Kutsuna[3,4], Toru Taniguchi[1,5] ([1]Forest Bio Res. Cent., For. Forest Prod. Res. Inst., [2]Grad. Sch. of Agri., Kyoto Univ., [3]Grad. Sch. of Front. Sci., The Univ. of Tokyo, [4]LPixel Inc., [5]Forest Tree Breeding Cent., For. Forest Prod. Res. Inst.)	1aJ10 Photoperiod dependent turion formation in the aquatic duckweed, *Lemna turionifera* Shogo Ito, Tokitaka Oyama (Dept. Bot., Div. Biol. Sci., Grad. Sch. Sci., Kyoto. Univ.)	11:45
1aG11 Studies on glucosinolate breakdown in non-disrupted plant tissue Ryosuke Sugiyama, Ayuko Kuwahara, Masami Y. Hirai (RIKEN CSRS)	1aH11 Molecular evolution and allosteric activation of 3-phosphoglycerate dehydrogenase for serine biosynthesis in plant. Eiji Okamura[1], Ryuichi Nishihama[2], Takayuki Kohchi[2], Masami Y. Hirai[1] ([1]RIKEN CSRS, [2]Grad. Sch. Biostudies, Kyoto Univ.)	1aI11 Tissue structure of poplar stem grown under shortened annual cycle system Kei'ichi Baba[1], Yuko Kurita[2], Tetsuro Mimura[3] ([1]RISH, Kyoto Univ., [2]Fac. Ager., Ryukoku Univ., [3]Grad. Sch. Sci., Kobe Univ.)	1aJ11 Ⓔ Circadian regulation of plant responses to herbicides Fiona Belbin[1], Gavin Hall[2], Carl Formstone[2], Keara Franklin[1], Antony Dodd[1] ([1]University of Bristol, U.K., [2]Syngenta Ltd., U.K.)	12:00
		1aI12 Gravitropic region and elongating growth in stems of *Arabidopsis thaliana* Nanako Matsunaga, Kei'ichi Baba, Junji Sugiyama (RISH, Kyoto Univ.)		12:15

Ⓔ=Presentation in English

● Day 1, Wed., March 28, PM (14:00–17:00)

Symposium S03 Amazing Development — Unrevealing Unusual Developmental Phenomena in Plants — (14:00–17:00)

Symposium S04 New Trends of Plant Reproduction Emerging from Cell Biological Approaches (14:00–17:00)

Room C — Environmental responses/Abiotic stresses (Wounding//Redox/ Drought/Osmotic pressure, etc)

14:00

1pC01 E
Early response pathway decision after wounding in the JA signalling mediated by the bHLH factor RERJ1
Ioana Valea[1], Koji Miyamoto[2], Hisakazu Yamane[2], Hideaki Nojiri[1], Kazunori Okada[1] ([1]The University of Tokyo, [2]Teikyo University)

14:15

1pC02
Characterization of thioredoxin reductases and thioredoxins in *Anabaena* sp. PCC 7120
Shoko Mihara, Keisuke Yoshida, Ken-ichi Wakabayashi, Toru Hisabori (Lab. Chem. Life Sci., Tokyo Tech.)

14:30

1pC03 E
Proteomics can deeply unravel the Trx pathway and its specificity
Frederic Deschoenmaeker[1], Shoko Mihara[1], Tatsuya Niwa[2], Hideki Taguchi[2], Toru Hisabori[1] ([1]Laboratory for Chemistry and Life Science, Tokyo Institute of Technology, [2]Cell Biology Centre, Tokyo Institute of Technology)

14:45

1pC04
Intracellular thioredoxin sensor protein THIS
Kazunori Sugiura[1], Yuichi Yokochi[1,2], Toru Hisabori[1] ([1]Chem. & Life Sci.,Tokyo tech, [2]School of Life Science and Technology., Tokyo tech)

15:00

1pC05 E
Effect of Ultra-High CO_2 in International Space Station on Plant Growth and Development
Takuya Furuichi (Nagoya University of Economics)

Room D — Epigenetic regulation

1pD01
Analysis of transcriptional regulation mediated by nuclear lamina protein CRWN.
Yuki Sakamoto[1], Shingo Takagi[2], Sachihiro Matsunaga[1,3] ([1]Tokyo Univ of Sci, RIST, IFC, [2]Osaka Univ, Grad Sch of Sci, [3]Tokyo Univ of Sci, Dept of Sci and Tech, Fac of App Biol Sci)

1pD02
Centromere distribution regulated by two-step molecular mechanism is crucial for the maintenance of genome integrity in mitotic nuclei of *Arabidopsis thaliana*
Tomoe Yamashita, Takuya Sakamoto, Yuki Sakamoto, Yuka Oko, Sachihiro Matsunaga (Dept. Applied Bio. Sci., Fac. Sci. Tech., Tokyo Univ. Sci)

1pD03
The distinct roles of class I and II RPD3-like histone deacetylases in salinity stress response
Minoru Ueda[1,2], Akihiro Matsui[1], Maho Tanaka[1], Tomoe Nakamura[1,3], Takahiro Abe[1,4], Kaori Sako[1,2], Taku Sasaki[1,2], Jong-Myong Kim[1], Hiroaki Shimada[3], Akihiro Ito[5], Norikazu Nishino[5], Minoru Yoshida[5], Motoaki Seki[1,2,4] ([1]Plant Genomic Network Research Team, RIKEN CSRS, [2]JST CREST, [3]Dept. Biol. Sci., Tech. Tokyo Univ. Sci., [4]Grad. Sch. Nano-Bio., Yokohama City Univ., [5]Chemical Genomics Research Group, RIKEN CSRS)

1pD04 E
Control of chromatin structure by auxin
Aida Nazlyn Binti Nazari[1], Shiori S. Aki[1], Hirotomo Takatsuka[1], Masaaki Umeda[1,2] ([1]Nara Institute of Science and Technology, [2]JST, CREST)

1pD05
ASHH2 regulates plant regeneration
Sachihiro Matsunaga[1], Yuuki Katsuyama[1], Hiroya Ishihara[1], Satoshi Kadokura[1], Yayoi Inui[1], Takuya Sakamoto[1], Ichiro Terashima[2], Takamasa Suzuki[3], Yuji Sawada[4], Masami Y. Hirai[4], Motoaki Seki[4], Kaoru Sugimoto[1] ([1]Dept. Appl. Biol. Sci., Fac. Sci. Tech., Tokyo Univ. Sci., [2]Grad. Sch. Sci., Univ. Tokyo, [3]Biosci. Biotech., Chubu Univ., [4]CSRS, RIKEN)

Room E — Plant-microbe interaction (Symbiosis/Diseases and pests)

1pE01
Localization of PHO1-type phosphate exporter in arbuscular mycorrhizal fungus by immunoelectron microscopic technique
Yusaku Sugimura[1], Hayato Maruyama[1], Kaede Yokoyama[1], Yusuke Kikuchi[1], Natsuki Nakanishi[1], Ayumi Abe[1], Teruo Sone[1], Katsuharu Saito[2], Chikara Masuda[1], Tatsuhiro Ezawa[1] ([1]Grad. Sch. Agri., Hokkaido Univ, [2]Fac. Agri., Shinshu Univ)

1pE02
Analysis of host element involved in infection inhibition which induced by Type III secretion system effector of *Bradyrhizobium elkanii* USDA61
Shohei Kusakabe[1], Takakazu Kaneko[2], Michiko Yasuda[3], Hiroki Miwa[3], Shin Okazaki[3], Kazuhiko Saeki[4], Shusei Sato[1] ([1]Grad. Sch. Life Sci., Tohoku Univ., [2]Faculty of Life Sci., Kyoto Sangyo Univ., [3]Grad. Sch. Agri., Tokyo Univ of Agriculture and Technology., [4]Grad. Sch. Humanities and Sciences., Nara Women's Univ.)

1pE03
How do host legume plants reject cheating rhizobia?
Tomomi Nakagawa[1,2], Kazuhiko Saeki[3], Kiminori Toyooka[4], Mayuko Sato[4], Hideki Hirakawa[5], Mifu Oosawa[3], Mayumi Wakazaki[4], Mai Fukuhara[1,6], Takushi Kawahigashi[7], Ayae Yoshida[7], Norio Suganuma[7], Hisayuki Mitsui[8], Shusei Sato[8], Masayoshi Kawaguchi[1,6] ([1]NIBB, [2]Nagoya Univ., [3]Nara Woman's Univ., [4]RIKEN CSRS, [5]Kazusa DNA Res. Inst., [6]SOKENDAI, [7]Aichi Educ. Univ., [8]Tohoku Univ.)

1pE04
NITRATE UNRESPONSIVE SYMBIOSIS 1 negatively regulates the root nodule symbiosis in response to nitrate
Hanna Nishida[1,2,3], Sachiko Tanaka[2], Yoshihiro Handa[2], Momoyo Ito[3], Takashi Soyano[1,2], Masayoshi Kawaguchi[1,2], Takuya Suzaki[3] ([1]SOKENDAI, [2]NIBB, [3]Univ of Tsukuba)

1pE05
Over-expression of a Class 1 Plant Hemoglobin Enhances *Lotus japonicus-Mesorhizobium loti* Symbiosis
Mitsutaka Fukudome[1], Eri Watanabe[2], Ryujiro Imaizumi[3], Toshio Aoki[3], Toshiki Uchiumi[1] ([1]Grad. Sch. Sci. Engi., Kagoshima Univ., [2]Dept. Chem. Biosci., Fac. Sci., Kagoshima Univ., [3]Grad. Sch. Biores. Sci., Nihon Univ.)

Room F — Photosynthesis

1pF01 E
Subcellular Localization of Chlorophyllase in Higher Plants
Tzan-Chain Lee, Tin-Han Shih, Chi-Ming Yang (Biodiversity Research Center, Academia Sinica, Taiwan)

1pF02 E
The effect of chlorophyll degradation by SGR on senescence
Ying Chen, Yousuke Shimoda, Ayumi Tanaka, Hisashi Ito (Inst. Low Temp. Sci., Hokkaido Univ)

1pF03
Catalytic Mechanism Analysis of Mg-dechelatase SGR
Daichi Obata, Ayumi Tanaka, Hisashi Ito (ILTS, Univ. Hokkaido)

1pF04
Genetic variation in Photosynthetic Iron-Use Efficiency among gramineous cultivars under iron-deficient condition.
Kyoko Higuchi[1], Akihiro Saito[1], Daiki Ito[1], Shotaro Shinjo[1], Akira Sato[1], Yuko Doi[1], Junichi Yoneda[2], Tsuyoshi Tokunaga[2], Takuji Ohyama[1] ([1]Tokyo Univ. of Agriculture, Facl. of Applied Bioscience, [2]EARTHNOTE Co. Ltd.)

1pF05
Effects of overproduction and suppression of Rubisco activase on Rubisco content in rice plants
Mao Suganami[1,3], Yuji Suzuki[2,4], Shinji Nishida[1], So Konno[1], Amane Makino[1,4] ([1]Grad. Sch. Agr.Sci., Tohoku Univ., [2]Fac. Agr., Iwate Univ., [3]DIARE., Tohoku Univ., [4]CREST., JST)

Room G	Room H	Room I	Room J	Time
Plant hormones/Signaling molecules	Primary metabolism	Cell wall	Photoreceptors/Photoresponses	
1pG01 Analysis of novel transcription factors which related to Brassinosteroid response Reika Taguchi[1], Miho Ikeda[1], Ayumi Yamagami[2], Nobutaka Mitsuda[3], Takeshi Nakano[2], Masaru Ohme-Takagi[1] ([1]Grad. Sci. Eng., Saitama Univ, [2]Wako Inst., Riken, [3]Tsukuba Inst., Advanced Inst. Sci. Technol)	1pH01 The Coiled-coil Domain In NIGT1 Transcription Factor Proteins Is Important For Regulation Of Phosphorus Signaling In Arabidopsis Yoshiaki Ueda[1], Takatoshi Kiba[2], Shuichi Yanagisawa[1] ([1]Biotech. Res. Center, Univ. Tokyo, [2]RIKEN CSRS)	1pI01 Functional analysis of NAC transcription factors VNS for tracheid formation in *Pinus taeda*. Nobuhiro Akiyoshi[1], Yoshimi Nakano[1], Yusuke Kunikida[1], Misato Ohtani[1,2], Taku Demura[1,2] ([1]NAIST, [2]RIKEN CSRS)	1pJ01 Analyses of stomatal opening in isolated epidermis and whole leaves in Arabidopsis. Eigo Ando[1], Toshinori Kinoshita[1,2] ([1]Grad. Sch. Sci., Nagoya Univ., [2]WPI-ITbM, Nagoya Univ.)	14:00
1pG02 Analysis for physiological function and target protein of PPG as novel compound of promoter for plant growth Shun Takeno[1,2], Ayumi Yamagami[1], Setsuko Shimada[1], Minami Matsui[1], Yusuke Kakei[3], Yukihisa Shimada[3], Shoji Segami[4], Yasumitsu Kondo[1], Naoshi Dohmae[1], Tetsuo Kushiro[2], Masayoshi Maeshima[4], Tadao Asami[5,6], Hiroyuki Osada[1], Kazuo Shinozaki[1], Takeshi Nakano[1,6] ([1]RIKEN CSRS, [2]Dept.Agric. Chem.,Meiji Univ., [3]Yokohama City Univ., [4]Dept.Biol.Agri.,Nagoya Univ., [5]Dept.Appl. Biol.Chem.,Univ.of Tokyo, [6]CREST JST)	1pH02 Analysis of natural variation in response to nitrogen deficiency among Arabidopsis ecotypes Atsushi Mabuchi[1], Keina Monda[1], Hikaru Watase[1], Sho Takahashi[1], Yasuhito Sakuraba[2], Juntaro Negi[1], Shuichi Yanagisawa[2], Koh Iba[1] ([1]Dept. Biol., Fac. Sci., Kyushu Univ., [2]Biotech. Res. Center, Univ. Tokyo)	1pI02 Transcriptomic analysis on interfamily grafting of *Nicotiana*. Michitaka Notaguchi[1,2,3], Koji Okayasu[1], Yu Sawai[1], Hiroki Tsutsui[1], Ryo Okada[1], Takamasa Suzuki[4], Masaki Niwa[1] ([1]Grad. Sch. Bioagri. Sci., Nagoya U., [2]WPI-ITbM., Nagoya U., [3]JST PRESTO, [4]Grad. Sch. Biosci. Biotech.,Chubu U.)	1pJ02 *GUN1* and the Downstream Signaling Pathway Regulating Seedling De-etiolation Nobuyoshi Mochizuki, Akira Nagatani (Grad. Sch. Sci., Kyoto Univ.)	14:15
1pG03 Seven-transmembrane protein BIL4 suppresses the degradation of brassinosteroid receptor BRI1 Ayumi Yamagami[1,5], Chieko Saito[2], Tomohiro Uemura[2], Miki Nakazawa[1], Minami Matsui[1], Masaaki Sakuta[3], Akihiko Nakano[2], Hiroyuki Osada[1], Kazuo Shinozaki[1], Tadao Asami[4,5], Takeshi Nakano[1,5] ([1]RIKEN CSRS, [2]Dept. Biol. Sci., Univ. of Tokyo, [3]Ochanomizu Univ., [4]Dept. App. Biol. Chem., Univ. of Tokyo, [5]JST-CREST)	1pH03 Functional analysis of the unique ACT domain repeat protein (ACR) in a red alga Cyanidioschyzon merolae Tokiaki Takemura, Sousuke Imamura, Yuki Kobayashi, Kan Tanaka (Laboratory for Chemistry and Life Science, Institute of Innovative Research, Tokyo Institute of Technology)	1pI03 Roles of reactive oxygen species (ROS) for haustorium induction in the parasitic plant Striga hermonthica. Syogo Wada, Songkui Cui, Satoko Yoshida (Nara institute of science and technology)	1pJ03 The Establishment of Light-Controlled Metabolic Map of Cyanobacteria Yuya Araki[1,2], Setsuko Shimada[1], Yuko Makita[1], Mika Kawashima[1], Tomoko Kuriyama[1], Hiroaki Shimada[2], Minami Matsui[1] ([1]Synthetic Genomics Res. Group, CSRS, Riken, [2]Dept. Biological Sci. and Tech., Tokyo Univ. of Sci.)	14:30
1pG04 Development of a micrografting chip Hiroki Tsutsui[1], Naoki Yanagisawa[2], Yu Sawai[1], Shuka Ikematsu[3], Hideyuki Arata[4], Tetsuya Higashiyama[2,5], Michitaka Notaguchi[1,6] ([1]Grad. Sch. Bioagri. Sci., Nagoya Univ., [2]Grad. Sch. Sci., Nagoya Univ., [3]Fac. Life Sci., Kyoto Sangyo Univ., [4]NISTEP, MEXT, [5]ITbM-WPI, Nagoya Univ., [6]PRESTO, JST)	1pH04 Regulation of *de novo* biosynthesis of NAD^+ by nitrate signaling in Arabidopsis Moriaki Saito, Mineko Konishi, Shuichi Yanagisawa (Biotechnology Research Center, The University of Tokyo)	1pI04 Ⓔ Host lignin composition affects haustorium induction in parasitic plants Songkui Cui[1,2,7], Syogo Wada[1], Yuki Tobimatsu[3], Yuri Takeda[3], Toshiyuki Takano[4], Toshiaki Umezawa[3,5], Ken Shirasu[2,6], Satoko Yoshida[1,2,7] ([1]Grad.Sch. BioSci., NAIST, [2]CSRS, RIKEN, [3]RISH, Kyoto Univ., [4]Grad Sch. Agri., Kyoto Univ., [5]Res. Unit. Dev. Global Sus., Kyoto Univ., [6]Grad. Sch. Sci., Univ. Tokyo, [7]URA, NAIST)	1pJ04 Isolation of phytochrome3-interacting transcription factors in *Adiantum capillus-veneris* Izumi Kimura, Takeshi Kanegae (Dept. of Biol. Sci., Grad. Sch. of Sci. and Eng., Tokyo Metropolitan Univ.)	14:45
		Cell cycle/Cell division		
1pG05 Comparative Phosphoproteomic Analysis of Dormant and After-ripened Seeds of Barley. Shinnosuke Ishikawa[1], Fuminori Takahashi[2], Jose Barrero[3], Hirofumi Nakagami[4], Frank Gubler[3], Kazuo Shinozaki[2], Taishi Umezawa[1] ([1]Grad. Sch. BASE., Tokyo University of Agriculture and Technology, [2]RIKEN CSRS, [3]CSIRO, [4]Max planck Institutes)	1pH05 A role of Arabidopsis NIN-Like Protein 2 in promoting vegetative growth Takayuki Okitsu, Mineko Konishi, Shuichi Yanagisawa (Biotech. Res. Center, Univ. Tokyo)	1pI05 Ⓔ The Spindle Assembly Checkpoint In Arabidopsis Is Rapidly Shut Off During Severe Stress Shinichiro Komaki[1], Arp Schnittger[2], Takashi Hashimoto[1] ([1]Grad. Sch. Biol. Sci., NAIST, [2]Univ. Hamburg)	1pJ05 SnRK2-mediated red-light responses in the moss Physcomitrella patens Kazuki Udagawa[1], Shoko Kageyama[1], Ryoko Otake[1], Akihisa Shinozawa[1], Takumi Tomoi[2,3], Tomomichi Fujita[4], Andrew C. Cuming[5], Izumi Yotsui[1], Teruaki Taji[1], Yoichi Sakata[1] ([1]Dept. Bioscience, Tokyo Univ. Agric, [2]Grad.Sch.of Life Sci.,Hokkaido Univ, [3]OIIB, [4]Fac. Sci., Hokkaido Univ, [5]University of Leeds, UK)	15:00

Ⓔ=Presentation in English

● Day 1, Wed., March 28, PM (14:00–17:00)

Time	Room A	Room B	Room C	Room D	Room E	Room F
	Symposium S03 Amazing Development — Unrevealing Unusual Developmental Phenomena in Plants — (14:00–17:00)	Symposium S04 New Trends of Plant Reproduction Emerging from Cell Biological Approaches (14:00–17:00)	Environmental responses/Abiotic stresses (Wounding//Redox/ Drought/Osmotic pressure, etc)	Epigenetic regulation	Plant-microbe interaction (Symbiosis/Diseases and pests)	Photosynthesis
15:15			1pC06 E A single seed treatment with reactive oxygen species (ROS) improves growth performance and alleviates abiotic stress in Arabidopsis Md Mostafa Kamal[1], Karen Tanino[2], Yukio Kawamura[1], Matsuo Uemura[1] ([1]United graduate School of Agricultural Sciences, Iwate University, Japan, [2]Department of Plant Sciences, University of Saskatchewan, Canada)	1pD06 The relationship between siRNA accumulations and DCL3 / DCL4 activities in organs Midori Tabara, Hiromitsu Moriyama, Toshiyuki Fukuhara (Tokyo University of Agriculture and Technology)	1pE06 E Conserved effectors with a ribonuclease domain are involved in virulence of phytopathogenic *Colletotrichum* fungi Naoyoshi Kumakura[1], Suthitar Singkaravanit-Ogawa[2], Pamela Gan[1], Ayako Tsushima[1,3], Mari Narusaka[4], Yoshihiro Narusaka[4], Yoshitaka Takano[2], Ken Shirasu[1,3] ([1]CSRS, RIKEN, [2]Grad. Sch. Agri., Kyoto Univ., [3]Grad. Sch. Sci., Univ. Tokyo, [4]RIBS, Okayama)	1pF06 Increase In Grain Yield Of Transgenic Rice Plants With Overproduced Rubisco Content Grown In An Isolated Paddy Field Mari Watanabe[1], Keiki Ishiyama[1], Kyoichi Shibuya[1], Maki Ogura[1], Dong Kyung Yoon[1], Mao Suganami[1], Youshi Tazoe[1], Yuji Suzuki[2,3], Tadahiko Mae[1], Amane Makino[1,3] ([1]Grad. Sch. Agr.Sci., Tohoku Univ., [2]Fac. Agr., Iwate Univ., [3]CREST., JST)
15:30			1pC07 E Two-way Regulation for Plant Drought Tolerance by Acetate Jong-Myong Kim[1], Taiko To[2], Motoaki Seki[1] ([1]RIKEN CSRS, [2]Dept. of Biol., Univ. Tokyo)	1pD07 The DNA methylation dynamics of rice shoot apical meristem. Asuka Higo[1], Noriko Saihara[1], Fumihito Miura[2], Yoko Higashi[3], Megumi Yamada[3], Shojiro Tamaki[3], Tasuku Ito[4], Yoshiaki Tarutani[4], Tomoaki Sakamoto[5], Masayuki Fujiwara[6], Tetsuya Kurata[7], Yoichiro Fukao[8], Satoru Morito[9], Rie Terada[9], Takashi Ito[2], Tetsuji Kakutani[4,10,11], Ko Shimamoto[3], Hiroyuki Tsuji[1] ([1]Kihara Institute for Biological Research, Yokohama City University, [2]Fac. of Med. Sci., Kyushu Univ., [3]Grad. Sch. of Biol. Sci., NAIST, [4]National Institute of Genetics, [5]Fac. of Life Sci., Kyoto Sangyo Univ., [6]Ins. for Adv. Bios., Keio Univ., [7]Grad. Sch. of Life Sci., Tohoku Univ., [8]Col. of Life Sci., Ritsumeikan Univ., [9]Fac. of Agriculture, Meijo Univ., [10]Dep. of Genet., Sch. of Life sci., The Grad. Univ. for Advanced Stu., [11]Fac. of Sci., Tokyo Univ.)	1pE07 Characterization of Root-knot Nematode Attractants Released through Seed Coat Mucilage Extrusion Yi-Lun Allen Tsai, Shinichiro Sawa (Grad. Sch. Sci. Tech., Kumamoto Univ.)	1pF07 Study on cAMP-dependent CO_2 response mechanims in the marine diatom *Phaeodactylum ticornutum*. Mayu Nakagawa, Kento Saito, Kensuke Nakajima, Yusuke Matsuda (Department of Bioscience, Kwansei-Gakuin University, Sanda, Hyogo 669-1337, Japan)
15:45			1pC08 E Acetic acid treatment alters the transcriptome and metabolome of Arabidopsis thaliana plants to confer drought stress tolerance Khurram Bashir[1], Sultana Rasheed[1], Jong-Myong Kim[1], Akihiro Matsui[1], Maho Tanaka[1], Miyako Kusano[2,3], Jun Kikuchi[4,5], Seki Motoaki[6,7] ([1]Plant Genomic Network Research Team, RIKEN CSRS, [2]Metabolomics Research Group, RIKEN CSRS, [3]Graduate School of Life and Environmental Sciences, University of Tsukuba, [4]RIKEN Center for Sustainable Resource Science, [5]Graduate School of Medical Life Science, Yokohama City University, [6]Kihara Institute for Biological Research, Yokohama City University, [7]CREST, JST)	1pD08 E PRC2-mediated epigenetic control of systemic immunity and defense priming in Arabidopsis thaliana Yuri Tajima[1], Eva-Maria Reimer-Michalski[2], Eliza Po-Iian Loo[1], Barbara Kracher[2], Franziska Turck[2], Masanao Sato[3], Yusuke Saijo[1] ([1]NAIST, [2]MPIPZ, [3]Res. Fac. of Agric., Hokkaido Univ.)	1pE08 Analyses of herbivore behavior and plant defense Hiroshi Abe[1], Takeshi Shimoda[2], Shigemi Seo[3], Yuji Sawada[4], Masami Y. Hirai[4], Takuya Uehara[3], Masami Shimoda[3], Soichi Kugimiya[5], Tamito Sakurai[2], Shinya Tsuda[2], Masatomo Kobayashi[1] ([1]RIKEN BRC, [2]NARO CARC, [3]RIKEN CSRS, [4]NARO NIAS, [5]NARO NIAES)	1pF08 Characterization of putative thylakoidal anion channels in the marine diatom, *Phaeodactylum tricornutum* Kansei Yamagishi, Sae Kikutani, Ai Miyatake, Yoshinori Tsuji, Yusuke Matsuda (Department of Bioscience, Kwansei-Gakuin University)
16:00			1pC09 E Is ABA an endocrine-type hormone or an autocrine-type hormone? Takashi Kuromori, Eriko Sugimoto, Kazuo Shinozaki (RIKEN CSRS)	1pD09 Dynamic DNA methylation reconfiguration during seed development and germination Taiji Kawakatsu (Institute of Agrobiological Sciences, NARO)	1pE09 ER-body-dependent production of volatile compounds affects feeding behavior of blowfly via olfactory response. Somare Mizuho[1], Toru Maeda[2], Tadashi Kunieda[1], Junpei Takagi[1], Kenji Yamada[3], Mamiko Ozaki[2], Ikuko Hara-Nishimura[1] ([1]Fac. of Sci. and Eng., Konan Univ., [2]Grad. Shc. of Sci., Kobe Univ., [3]Malopolska Center of Biotechnology., Jagiellonian Univ.)	1pF09 Identification and functional analysis of a possible of CO_2 transporter rice OsTIP2;2 Yoshiki Nakahara[1], Izumi C. Mori[1], Yojiro Taniguchi[2], Mineo Shibasaka[1], Tomoaki Horie[3], Toshiyuki Kaneko[4], Maki Katsuhara[1] ([1]IPSR, Okayama Univ., [2]NIAS, [3]Facul. Textile Sci., Shinshu Univ., [4]Dep. Physiol., Asahikawa Medical Univ.)
16:15			1pC10 Insights into the functional evolution of land plant SnRK2 family Akihisa Shinozawa[1], Ryoko Otake[1], Andrew C. Cuming[2], Kenji Komatsu[3], Daisuke Takezawa[4], Taishi Umezawa[5], Teruaki Taji[1], Takahisa Hayashi[1], Yoichi Sakata[1] ([1]Dept Bioscience, Tokyo Univ. Agric, [2]Univ. of Leeds, [3]Bioproduction Tech., Junior College of Tokyo Univ. Agric, [4]Grad. Sch. Sci and Eng., Univ. Saitama., [5]BASE, Tokyo University of Agriculture and Technology)	1pD10 Noise-filtering function of H3K27me3 in the seasonal response of plants Haruki Nishio[1], Atsushi J. Nagano[1,2], Diana Buzas[3], Koji Iwayama[4], Tasuku Ito[1], Hiroshi Kudoh[1] ([1]Cent. Ecol. Res., Kyoto Univ., [2]Fac. Agri., Ryukoku Univ., [3]Gene Res. Cent., Univ. Tsukuba, [4]Cent. Data Sci. Edu. Res., Shiga Univ.)	1pE10 Identification of Constitutive ER bodies in *Arabidopsis* Rosette Leaves Akiko Nakazaki[1], Kenji Yamada[2], Tadashi Kunieda[3], Kentaro Tamura[1], Ikuko Hara-Nishimura[3], Tomoo Shimada[1] ([1]Grad. Sch. Sci., Kyoto Univ., [2]Malopolska Cent. Biotechnol., Jagiellonian Univ., [3]Fac. Sci. Eng., Konan Univ.)	1pF10 Analysis of Polyhydroxyalkanoate (PHA) synthase and PHA production conditions in marine purple non-sulfur photosynthetic bacteria Mieko Higuchi-Takeuchi, Yoko Motoda, Keiji Numata (RIKEN CSRS Enzyme Research Team)

Room G	Room H	Room I	Room J	Time
Plant hormones/Signaling molecules	Primary metabolism	Cell cycle/Cell division	Photoreceptors/Photoresponses	
1pG06 Phosphoproteomic analysis using *Physcomitrella patens* abscisic acid response mutant Yurie Hara[1], Shinnosuke Ishikawa[1], Anna Amagai[1], Mayuri Kuwahara[2], Fuminori Takahashi[3], Saho Mizukado[3], Naoyuki Sugiyama[4], Yasushi Ishihama[4], Daisuke Takezawa[5], Yoichi Sakata[2], Kazuo Shinozaki[3], Taishi Umezawa[1] ([1]BASE., Noukou. Univ, [2]Bio., Agricultual. Univ, [3]CSRS., Riken, [4]Pharmacy., Kyoto. Univ, [5]Science., Saitama. Univ)	1pH06 Cytosolic glutamine synthetase 1;1 controls metabolic homeostasis and plastid differentiation in rice Miyako Kusano[1,2,3], Kyonoshin Maruyama[4], Atsushi Fukushima[2], Tomoko Nishizawa[2], Makoto Kobayashi[2], Mayumi Wakazaki[2], Mayuko Sato[2], Kiminori Toyooka[2], Kumiko Kondo-Osanai[2], Yoshinori Utsumi[2], Motoaki Seki[2], Mayumi Tabuchi-Kobayashi[5], Kazuhiro Funayama[5], Soichi Kojima[5], Kazuki Saito[2,6], Tomoyuki Yamaya[5] ([1]Facul. Life Env. Sci., Univ. Tsukuba, [2]CSRS, RIKEN, [3]PRESTO, JST, [4]JIRCAS, [5]Grad. Sch. Agr. Sci., Tohoku Univ., [6]Grad. Sch. Pharm. Sci., Chiba Univ.)	1pI06 Involvement of M phase-specific kinesin NACK1 in interacellular transport during the formation of cell plates Michiko Sasabe[1], Takumi Higaki[2,3], Yuka Nishida[1], Shimon Morioka[1], Reina Suzuki[1], Tomohiro Uemura[4], Hiroki Yasuhara[5], Seiichiro Hasezawa[3], Takashi Ueda[6], Yasunori Machida[7] ([1]Fac. of Agri. Life Sci., Hirosaki Univ., [2]IROAST, Kumamoto Univ., [3]Grad. Sch. Frontier Sci. Univ. Tokyo, [4]Grad. Sch. of Sci., Univ. Tokyo, [5]Fac. Chem. Mate. Bioengineer., Kansai Univ., [6]Div. of Cellular Dynamics, NIBB, [7]Grad. Sch. of Sci., Nagoya Univ.)	1pJ06 CBC kinases mediate inhibition of S-type anion channels in phototropin pathway of guard cells Asami Hiyama[1], Atsushi Takemiya[2], Naoyuki Sugiyama[3], Shintaro Munemasa[4], Eiji Okuma[4], Yoshiyuki Murata[4], Ken-ichiro Shimazaki[2] ([1]Grad. Sch. Sys. Life Sci., Kyushu Univ., [2]Dept. Biol. Fac. Sci., Kyushu Univ., [3]Dept. Mol. Cell. Bio. Pharm., Kyoto Univ., [4]Grad. Sch. Env. Life Sci., Okayama Univ.)	15:15
1pG07 Physiological role of molybdenum cofactor sulfurase ABA3 in stress tolerance of Arabidopsis distinct from the accumulation of abscisic acid Shunsuke Watanabe[1], Yuri Kanno[1], Yuji Sawada[1], Akihiro Matsui[1], Maho Tanaka[1], Masami Y. Hirai[1], Motoaki Seki[1], Atsushi Sakamoto[2], Mitsunori Seo[1] ([1]RIKEN CSRS, [2]Grad. Sch. Sci., Hiroshima Univ.)	1pH07 Comparison of metabolite profiles for oxalate synthesis among rice cultivars Atsuko Miyagi[1], Shunsuke Adachi[2], Ko Noguchi[3], Takeshi Tokida[4], Yasuhiro Usui[5], Hiroshi Nakamura[6], Hidemitsu Sakai[4], Toshihiro Hasegawa[7], Toshio Yamamoto[8], Taiichiro Ookawa[2], Maki Kawai-Yamada[1] ([1]Grad. Sch. Sci. Engineer., Saitama Univ., [2]Grad. Sch. Agri., Tokyo Univ. Agri. & Tech., [3]Fac. Life Sci., Tokyo Univ. Phar. & Life Sci., [4]Inst. Agro-Environ. Sci., NARO, [5]Hokkaido Agri. Res. Ctr., NARO, [6]Taiyokeiki Co. Ltd., [7]Tohoku Agri. Res. Ctr., NARO, [8]Inst. Crop Sci., NARO)	1pI07 Regulation of cell division orientation in root vascular Koichi Toyokura[1,2], Jung-ok Heo[2,3], Iris Sevilem[3], Shunsuke Miyashima[4], Tatsuo Kakimoto[1], Yrjo Helariutta[2,3] ([1]Grad. Sch. Sci., Osaka Univ., [2]The Sainsbury Lab. Cambridge Univ., [3]Univ. Helsinki, [4]Grad. Sch. Bio. Sci., NAIST)	1pJ07 CBC kinases converge phototropin and CO_2 signals for stomatal opening under the light Asami Hiyama[1], Atsushi Takemiya[2], Naoyuki Sugiyama[3], Yasuomi Tada[4,5], Ken-ichiro Shimazaki[2] ([1]Grad. Sch. Sys. Life Sci., Kyushu Univ., [2]Dept. Sci., Kyushu Univ., [3]Dept. Pharm. Sci, Kyoto Univ., [4]Dept. Sci., Nagoya Univ., [5]Centr. Gene. Res., Nagoya Univ.)	15:30
1pG08 Tyrosine phosphorylation of the GARU E3 ubiquitin ligase promotes gibberellin signalling by preventing GID1 degradation Keiichiro Nemoto[1], Ramadan Abdelaziz[2], Gen-ichiro Arimura[3], Kenichiro Imai[4], Kentaro Tomii[4], Kazuo Shinozaki[5], Tatsuya Sawasaki[5] ([1]IBRC, [2]PROS, Ehime univ., [3]Fac. Ind. Sci. Tech., Tokyo Univ. Sci., [4]AIRC, AIST, [5]CSRS, RIKEN)	1pH08 WRKY transcription factors involved in the induction of sulfate uptake activity under sulfur deficiency Akiko Maruyama-Nakashita[1,2,3], Miyuki Kusajima[3], Makiko Takamune[2], Nobutaka Mitsuda[4], Yuki Kimura[1], Hideo Nakashita[3], Hideki Takahashi[2,5] ([1]Grad. Sch. Agric., Kyushu Univ., [2]RIKEN PSC, [3]Fukui Pref. Univ., [4]BPRI, AIST, [5]Michigan State Univ.)	1pI08 Analysis of GRAS and AP2-type transcription factors involved in proper maintenance of cell number and size. Yuji Nomoto[1,2], Toshiya Suzuki[3], Takamasa Suzuki[4], Masaki Ito[1,2] ([1]Grad. Sch. Bioagr. Sci., Nagoya Univ., [2]JST, CREST, [3]Plant Genet. Lab., Nat. Inst. Genet., [4]Coll. Biosci. Biotech., Chubu Univ.)	1pJ08 Zmphot1 functions according to the extent of its fluence-dependent phosphorylation Hiromi Suzuki[1,2], Tomokazu Koshiba[1], Chiharu Fujita[3], Yoshio Yamauchi[3], Taro Kimura[2,4], Toshiaki Isobe[3], Tatsuya Sakai[4], Masato Taoka[3], Takashi Okamoto[1] ([1]Dept. of Biol. Sci., Tokyo Metropolitan Univ., [2]Research Fellowship of JSPS, [3]Dept. of Chem., Tokyo Metropolitan Univ., [4]Grad. Sch. Sci. Tech., Univ. Niigata)	15:45
1pG09 E Gibberellin-independent functional conservation of DELLA protein in the basal land plant *Marchantia polymorpha* Rui Sun, Keisuke Inoue, Ryunosuke Kusunoki, Ryuichi Nishihama, Shohei Yamaoka, Takayuki Kohchi (Grad. Sch. Biostudies, Kyoto Univ.)	1pH09 Different roles of NAD kinases in the cyanobacterium Synechocystis sp.PCC6803 Yuuma Ishikawa[1], Atsuko Miyagi[1], Toshiki Ishikawa[1], Minoru Nagano[1], Masatoshi Yamaguchi[1], Kintake Sonoike[2], Yukako Hihara[1], Yasuko Kaneko[1], Maki Kawai[1] ([1]Grad. Sch. Sci. Engineer., Saitama Univ., [2]Fac. Edu. Integ. Arts Sci., Waseda Univ.)	1pI09 CDK inhibitor maintains root stem cells in Arabidopsis Teruki Sugiyama[1], Hiroshi Noguchi[1], Hirotomo Takastuka[1], Masaaki Umeda[1,2] ([1]Nara Institute of Science and Technology, JAPAN, [2]JST, CREST, JAPAN)	1pJ09 A correlation of chloroplast relocation movement with localization of phototropin at chloroplast periphery Momoko Sakata[1,2], Shun Kimura[1], Yuta Fujii[1], Yutaka Kodama[1] ([1]Ctr. Bio. Res. & Edu., Utsunomiya Univ, [2]Fac. Agri., Utsunomiya Univ.)	16:00
1pG10 E Molecular identification of a quinone receptor in Arabidopsis Anuphon Laohavisit[1], Takanori Wakatake[1], Nobuaki Ishihama[1], Takamasa Suzuki[2], Ken Shirasu[1] ([1]RIKEN, Center for Sustainable Resource Science, Yokohama, Japan, [2]Chubu University, Department of Biological Chemistry, Bioscience and Technology, Kasugai, Japan)	1pH10 Spatial Separation of Photosynthesis and Biofuel Production by Cell Type-Specific Metabolic Engineering of Filamentous Cyanobacteria Shigeki Ehira[1,2], Akiyoshi Higo[1], Takuto Takeuchi[2] ([1]Dep. Biol. Sci., Tokyo Metro. Univ., [2]Dep. Biol. Sci., Chuo Univ.)	1pI10 ANAC044 and ANAC085 are crucial for cell cycle arrest in response to DNA damage Naoki Takahashi[1], Nobuo Ogita[1], Tomonobu Takahashi[1], Syoji Taniguchi[1], Masaaki Umeda[1,2] ([1]NAIST, [2]JST, CREST)	1pJ10 Phototropin perceives temperature to regulate chloroplast positioning Yuta Fujii[1], Hiroyuki Tanaka[1,2], Naotake Konno[3], Yuka Ogasawara[1], Noriko Hamashima[1], Saori Tamura[1], Satoshi Hasegawa[4,5], Yoshio Hayasaki[5], Koji Okajima[6], Yutaka Kodama[1] ([1]Ctr. Biosci. Res. & Edu., Utsunomiya Univ., [2]Collab. Ctr. Res. & Dev., Utsunomiya Univ., [3]Fac. Agri., Utsunomiya Univ., [4]Grad. Sch. Eng., Utsunomiya Univ., [5]Ctr. Opt. Res. & Edu., Utsunomiya Univ., [6]Grad. Sch. Sci. & Tech., Keio Univ.)	16:15

E=Presentation in English

● Day 1, Wed., March 28, PM (14:00–17:00)

Time	Room A	Room B	Room C	Room D	Room E	Room F
	Symposium S03 Amazing Development — Unrevealing Unusual Developmental Phenomena in Plants — (14:00–17:00)	Symposium S04 New Trends of Plant Reproduction Emerging from Cell Biological Approaches (14:00–17:00)	Environmental responses/Abiotic stresses (Wounding//Redox/ Drought/Osmotic pressure, etc)		Plant-microbe interaction (Symbiosis/Diseases and pests)	Photosynthesis
16:30			1pC11 Arabidopsis thaliana B3 MAPKKK's role in ABA response mechanism Shohei Katsuta[1], Ryoko Otake[1], Masashi Saruhashi[2], Taishi Umezawa[3], Daisuke Takezawa[2], Teruaki Taji[1], Takahisa Hayashi[1], Izumi Yotsui[1], Yoichi Sakata[1] ([1]Department of Bioscience, Tokyo University of Agriculture, [2]Graduate School of Science and Engineering, Saitama University, [3]BASE, Tokyo University of Agriculture and Technology)		1pE11 E Current studies of insect galls of Lauraceae in Taiwan Tin-Han Shih[1], Szu-Hsien Lin[1], Kai-Chieh Chang[1], Meng-Yuan Hwang[2], Chi-Ming Yang[1] ([1]Biodiversity Research Center, Academia Sinica, Taiwan, [2]Department of Horticulture and Biotechnology, Chinese Culture University, Taipei, Taiwan)	1pF11 Alteration of carotenoids biosynthesis in the filamentous anoxygenic phototrophic bacterium (FAP) *Chloroflexus aurantiacus* grown under anaerobic and aerobic conditions Jiro Harada[1], Ken Yamamoto[1], Shinichi Takaichi[2] ([1]Dept. Med. Biochem., Kurume Univ. Sch. Med., [2]Dept. Mol. Microbiol., Facul. Life Sci., Tokyo Univ. Agr.)
16:45			1pC12 Identification of upstream kinases of VCS under osmotic stress conditions in Arabidopsis Fumiyuki Soma[1], Junro Mogami[1], Fuminori Takahashi[2], Yuta Sato[1], Kazuo Shinozaki[2], Kazuko Yamaguchi-Shinozaki[1] ([1]Grad. Sch. Agr. Life Sci., Univ. Tokyo, [2]Center for Sustainable Resource Science, RIKEN)		1pE12 Use of Novel Decoy Molecules to Reduce the Symptom Development Caused by Leaf Curl Viruses in Crops Takanori Suzuki[1,4], Norifusa Matsuo[1], Masato Omatsu[1], Mika Tanaka[1], Michiko Sasabe[2], Chiyoko Machida[3], Yasunori Machida[4] ([1]Cent. Res. Inst., Ishihara Sangyo Kaisha, Ltd., [2]Fac. Agr. & Life Sci., Hirosaki Univ., [3]Grad. Sch. Biosci. & Biotechnol., Chubu Univ., [4]Grad. Sch. Sci., Nagoya Univ.)	1pF12 Screening and analysis of brassinosteroid signaling mutants *bpg4* Momo Marugami[1,2], Susumu Abe[1,2], Ayumi Yamagami[1,4], Takanari Ichikawa[1], Minami Matsui[1], Tetsuo Kushiro[2], Kazuo Shinozaki[1], Tadao Asami[3,4], Takeshi Nakano[1,4] ([1]CSRS RIKEN, [2]Dep. Agric. Chem., Univ. Meiji, [3]Dep. Biol. Sci., Univ. Tokyo, [4]CREST JST)

Room G	Room H	Room I	Room J	Time
Plant hormones/Signaling molecules	Primary metabolism	Cell cycle/Cell division	Photoreceptors/Photoresponses	
1pG11 CLE-CLV1 signaling module regulates nematode infection via long-distance communication Satoru Nakagami[1], Chika Ejima[1], Ngan Bui Thi[1], Hiroshi Sato[1], Ryo Tabata[2], Michitaka Notaguchi[2], Takashi Ishida[1], Shinichiro Sawa[1] ([1]Grad. Sch. Sci. Tech., Kumamoto Univ., [2]Grad. Sch. Bioagri. Sci., Nagoya Univ.)	1pH11 Analysis of plant adaptation to C/N nutrition balance through membrane traffic modification by ubiquitin ligase ATL31 Yoko Hasegawa[1], Akari Fujimaki[2], Shota Hozuki[1], Tomohiro Uemura[3], Akihiko Nakano[3,4], Takeo Sato[1], Junji Yamaguchi[1] ([1]Fac. Sci. and Grad. Sch. Life Sci., Hokkaido Univ., [2]Sch. Sci., Hokkaido Univ., [3]Grad. Sch. Sci., Univ. Tokyo, [4]Live Cell Super-Resolution Imaging Research Team, RIKEN Center for Advanced Photonics)	1pI11 Response regulator rpaA overexpression causes a delay of cell division in Synechocystis sp. PCC 6803 Ayumi Kizawa, Takashi Osanai (Meiji University, School of Agriculture)	1pJ11 Phototropin is involved in cold-induced accumulation of non-glycosidic flavonoids in the liverwort Marchantia polymorpha Hiroyuki Tanaka[1,2], Tomohiro Suzuki[1], Xiaonan Xie[1], Yutaka Kodama[1] ([1]Center for Bioscience Research and Education, Utsunomiya University., [2]Collaboration Center for Research and Development, Utsunomiya University.)	16:30
1pG12 Identification of non-peptide antagonist for the peptide hormone receptor by high-throughput chemical screening Hidefumi Shinohara[1], Naoko Yasue[3], Tstsuo Ohnuki[2], Minoru Yoshida[2], Yoshikatsu Matsubayashi[1] ([1]Grad. Sch. Sci., Nagoya Univ., [2]RIKEN CSRS, [3]NIBB)	1pH12 Algal autophagy is required for carbon allocation and gametogenesis in nitrogen deficiency Masataka Kajikawa[1], Marika Yamauchi[2], Haruka Shinkawa[1], Manabu Tanaka[3], Kyoko Hatano[3], Yoshiki Nishimura[4], Misako Kato[2,5], Hideya Fukuzawa[1] ([1]Grad. Biostudies, Kyoto Univ., [2]Grad. Humanities Sci., Ochanomizu Univ., [3]Grad. Human Env. Stu., Kyoto Univ., [4]Grad. Sci., Kyoto Univ., [5]Ochanomizu Univ.)		1pJ12 CUL4-DDB1^{DET1} E3 ligase complex is critical for non-photochemical quenching in *Chlamydomonas reinhardtii* Yusuke Aihara[1], Konomi Kamada[1], Tomohito Yamasaki[2], Jun Minagawa[1] ([1]National Institute for Basic Biology, [2]Kochi univ.)	16:45

E=Presentation in English

● Day 2, Thu., March 29, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D	Room E	Room F
	Symposium S05 Maintenance of Stem-ness and Cell Fate Determination in Plants and Animals (9:00–12:00)	Symposium S06 Stories of Oxygen and Active Molecular Species in Photosynthetic Organisms (9:00–12:00)	Environmental responses/Abiotic stresses (Drought/Water/Osmotic pressure/Ion/Salt/Mineral/Others)	Organelles/Cytoskeletons	Plant-microbe interaction (Immunity/Others)	Vegetative growth
9:00			2aC01 Control of Abscisic Acid (ABA) and Low Temperature Response by Raf-like Protein Kinase ARK in Phyosconitrella patens Mayuka Hiraide[1], Yumiko Ishizaki[1], Keiko Kuwata[2], Masashi Saruhashi[1], Yoichi Sakata[3], Taishi Umezawa[4], Daisuke Takezawa[1] ([1]Grad.Sch.Sci and Eng. Saitama Univ, [2]Institute of Transformative Bio-Molecules, Nagoya Univ., [3]Dept. Bioscience, Tokyo Univ. Agric., [4]Grad. Sch. BASE, Tokyo Univ. Agric. Tech., Tokyo Univ. Agric.)	2aD01 Retrograde Ca^{2+} signaling from mitochondria to nucleus mediates defense-related gene expression Takaki Murata, Takanori Iwaki, Koji Shimotani, Miho Kotani, Kanako Yamasaki, Satoshi Sano, Takashi Shiina (Grad. Sch. Life and Env. Sci., Kyoto Pref. Univ)	2aE01 OsCERK1 plays a crucial role in the lipopolysaccharide-induced immune response of rice Yoshitake Desaki[1], Yusuke Kouzai[2], Yusuke Ninomiya[1], Ryosuke Iwase[1], Yumi Shimizu[1], Keito Seko[1], Antonio Molinaro[3], Eiichi Minami[2], Naoto Shibuya[1], Hanae Kaku[1], Yoko Nishizawa[2] ([1]Dept. Life Sciences, Sch. Agriculture, Meiji Univ., [2]Inst. Agrobiological Sciences, NARO, [3]Dept. Chemical Sciences, Univ. of Naples Federico II)	2aF01 Identification of ONION4 that encodes receptor-like protein kinase required for epidermis development in rice Tatsuya Kikuchi[1], Keita Kogure[1], Haruka Komatsu[2,3], Nana Sato[2,4], Honami Takahashi[1], Yukihiro Ito[1,2] ([1]Grad Sch Agri Sci, Tohoku Univ, [2]EGGS, Tohoku Univ, [3]Present add: Fac Eng, Tohoku Univ, [4]Present add: Fac Sci, Tohoku Univ)
9:15			2aC02 Functional analysis of aod13, an acquired osmotolerance-defective mutant of Arabidopsis thaliana Kouhei Uchida[1], Keisuke Tanaka[2], Shunsuke Yajima[2], Shigeki Nozawa[3], Yoshihiro Hase[3], Issay Narumi[3], Yoichi Sakata[1], Teruaki Taji[1] ([1]Department of Bio Science; Tokyo University Of Agriculture, [2]NODAI Genome Research Center, [3]Ion beam Mutagenesis Research Group; Quantum Beam Science Directorate)	2aD02 Four-dimensional analysis of the cortical endoplasmic reticulum and endoplasmic reticulum-plasma membrane contact sites Kazuya Ishikawa[1], Kentaro Tamura[1], Haruko Ueda[2], Yoko Ito[3], Akihiko Nakano[3,4], Ikuko Hara-Nishimura[2], Tomoo Shimada[1] ([1]Grad. Sch. Sci., Kyoto Univ., [2]Faculty of Sci. and Eng., Konan Univ., [3]RIKEN RAP, [4]Grad. Sch. Sci., Univ. Tokyo)	2aE02 E RNA helicase SMN2 is involved in autoimmune phenotype of *Arabidopsis mekk1* Momoko Takagi[1,2], Naoki Iwamoto[1], Alexander Graf[3], David Greenshields[4], Hiroki Takagi[5,6], Keisuke Tanaka[7], Teruaki Taji[8], Kazuo Shinozaki[4], Ryohei Terauchi[6,9], Ken Shirasu[4], Kazuya Ichimura[1,2] ([1]Grad. Sch. Agri., Kagawa Univ., [2]Unit. Grad. Sch. Agri., Ehime Univ., [3]Sainsbury Lab., JIC, UK, [4]RIKEN CSRS, [5]Facult. Biores. Env. Sci., Ishikawa Pref. Univ., [6]Iwate Biotech. Res. Cent., [7]Nodai Genome Res. Cent. Tokyo Univ. Agri., [8]Facult. Appli. Bio-Sci. Dep. Tokyo Univ. Agri., [9]Grad. Sch. Agri., Kyoto Univ.)	2aF02 E Physiological functions of the regulation of root hair growth by a transcription factor GTL1 Michitaro Shibata, Ayako Kawamura, Keiko Sugimoto (RIKEN, CSRS)
9:30			2aC03 Identification of ABI1-independent genes contributing to acquired osmotolerance in *Arabidopsis thaliana* Jumpei Narushima[1], Hirotaka Ariga[1], Keisuke Tanaka[2], Yoichi Sakata[1], Teruaki Taji[1] ([1]Tokyo University of Agriculture Dept. Bioscience, [2]NODAI Genome Research Center)	2aD03 Induction of the oil-body formation in *Arabidopsis thaliana* leaves by sugar treatment Shoichi Nakanishi[1], Takashi L. Shimada[2], Ikuko Nishimura[3], Yoichiro Fukao[1], Shigeo Sugano S.[4,5] ([1]Dept. Bioinfo., Ritsumeikan Univ., [2]Grad. Schol. Horti., Chiba Univ., [3]Fac. Sci. Eng, Konan Univ., Kobe, Japan, [4]R-GIRO, Ritsumeikan Univ., [5]JST, PRESTO)	2aE03 E Functional analysis of a leucine-rich repeat receptor kinase LMK1 in sugar-responsive modulation of plant immunity Xingwen Li[1], Shigetaka Yasuda[1,4], Yu Lu[1], Yuko Nomura[2], Hirofumi Nakagami[2,3], Yusuke Saijo[4], Takeo Sato[1], Junji Yamaguchi[1] ([1]Fac. Sci. and Grad. Sch. Life Sci., Hokkaido Univ., [2]CSRS, Riken, [3]Max Planck Institute for Plant Breeding Research, [4]Grad.Sch.Biol.Sci., NAIST)	2aF03 Positional Signaling Mediated By Specific lipids In Arabidopsis. Kenji Nagata[1], Taku Takahashi[2], Mitsutomo Abe[1] ([1]Grad. Sch. Sci., Univ. Tokyo, [2]Grad. Sch. Sci., Okayama Univ.)
9:45			2aC04 Functional Analysis of Abiotic Stress Responsive *PIF*-like Family Genes in Rice Daisuke Todaka[1], Takayuki Hashimoto[1], Yu Zhao[1], Kazuo Shinozaki[2], Kazuko Yamaguchi-Shinozaki[1] ([1]Grad. Sch. Agr. Life Sci., Univ. Tokyo, [2]Center for Sustainable Resource Science, RIKEN)	2aD04 Screening for Factors Involved in Biogenesis of the Oil Body in *Marchantia polymorpha* Takehiko Kanazawa[1,2], Takashi L. Shimada[3], Takashi Ueda[1,2] ([1]Div. Cellular Dynamics, NIBB, [2]Basic Biol, SOKENDAI, [3]Horticulture, Chiba Univ.)	2aE04 E Establishment of The Plant-Microbe Interaction Research with *Marchantia polymorpha* Hidekazu Iwakawa[1], Izumi Yotsui[2], Hidenori Matsui[2], Yuko Nomura[2], Katharina Kramer[1], Anne Harzen[1], Takehiko Kanazawa[3], Ryuichi Nishihama[4], Shinpei Katou[5], Takashi Ueda[3,6,7], Takayuki Kohchi[4], Hirofumi Nakagami[1,2] ([1]Max Planck Institute for Plant Breeding Research, [2]CSRS, RIKEN, [3]National Institute for Basic Biology, [4]Kyoto University, [5]Shinshu University, [6]SOKENDAI, [7]PRESTO, JST)	2aF04 Regulation of the *ATML1* activity for the single epidermal layer formation Hiroyuki Iida[1], Ayaka Yoshida[1], Gerd Jürgens[2], Shinobu Takada[1] ([1]Department of Biological Sciences, Graduate School of Science, and Faculty of Science, Osaka University, [2]Univ. Tübingen)
10:00			2aC05 Contribution of a gibberellin biosynthesis gene to the evolution of deepwater rice for adaptation to periodical flooding Takeshi Kuroha[1], Diane R. Wang[2], Susan R. McCouch[2], Ryusuke Yokoyama[1], Kazuhiko Nishitani[1], Motoyuki Ashikari[3] ([1]Graduate School of Life Sciences, Tohoku Univ., [2]Department of Plant Breeding and Genetics, Cornell Univ., [3]Bioscience and Biotechnology Center, Nagoya Univ.)	2aD05 Organelle remodeling mediated by autophagy during spermiogenesis in Marchantia polymorpha Takuya Norizuki[1,2], Naoki Minamino[1,2], Takehiko Kanazawa[2,3], Shoji Mano[2,3], Ryuichi Nishihama[4], Takayuki Kohchi[4], Takashi Ueda[2,3] ([1]Grad. Sch. Sci., Univ. Tokyo, [2]Natl. Inst. Basic Biol, [3]Dept. Basic Biol., SOKENDAI, [4]Grad. Sch. Biostudies, Kyoto Univ.)	2aE05 The mechanisms underlying induced systemic resistance in chitin-treated plant Mai Yoshioka[1], Roxana Y. Parada[1], Sumire Matsukawa[2], Mayumi Egusa[1], Chihiro Miura[1], Shinsuke Ifuku[3], Hironori Kaminaka[1] ([1]Fac. Agr., Tottori Univ., [2]Grad Sch. Agr., Tottori Univ., [3]Grad Sch. Eng., Tottori Univ.)	2aF05 Shared and exclusive regulatory pathways for differentiation of two distinct cell types in leaves: myrosin cells and guard cells Makoto Shirakawa, Toshiro Ito (Biological Sciences, Nara Institute of Science and Technology)

Room G	Room H	Room I	Room J	Time
Photosynthesis	Transcriptional, post-transcriptional or translational regulations	Reproductive growth		
2aG01 Analysis of an assembly factor mediating the early stage of SubB assembly in the chloroplast NDH complex Yoshinobu Kato[1], Masaki Odahara[2], Toshiharu Shikanai[1] ([1]Grad. Sch. Sci., Kyoto Univ., [2]Dept. Sci., Rikkyo Univ.)	2aH01 E AT-HOOK MOTIF NUCLEAR LOCALIZED (AHL) transcription factors antagonize PIF activity in petioles Davis S. Favero[1,2,3], Caitlin N. Jacques[1,2], Ayako Kawamura[3], Takamasa Suzuki[4], Katja E. Jaeger[5], Philip A. Wigge[5], Keiko Sugimoto[3], Michael M. Neff[1,2] ([1]Mol. Plant Sci. Prog., Washington State Univ., Pullman, WA, USA, [2]Dep. Crop and Soil Sci., Washington State Univ., Pullman, WA, USA, [3]Cen. for Sus. Res. Sci., RIKEN, Yokohama, Japan, [4]Dep. Biol. Chem., Chubu Univ., Kasugai, Japan, [5]Sainsbury Lab. Cambridge Univ., Cambridge, UK)	2aI01 BONOBOs are transcription factors required for germ cell lineage specification in land plants Shohei Yamaoka[1], Ryuichi Nishihama[1], Yoshihiro Yoshitake[1], Sakiko Ishida[1], Keisuke Inoue[1], Misaki Saito[1], Keitaro Okahashi[1], Haonan Bao[1], Hiroyuki Nishida[1], Katsushi Yamaguchi[2], Shuji Shigenobu[2], Kimitsune Ishizaki[3], Katsuyuki T. Yamato[3], Takayuki Kohchi[1] ([1]Grad. Sch. Biostudies, Kyoto Univ., [2]Funct. Genom. Fac., NIBB, [3]Grad. Sch. Sci., Kobe Univ., [4]BOST, Kindai Univ.)		9:00
2aG02 Role of PGRL1 in photoprotection of PSI in the green alga *Chlamydomonas reinhardtii* Hiroko Takahashi, Yoshitaka Nishiyama (Graduate school of Science and Engineering, Saitama University)	2aH02 Associated mRNA degradation and transcriptional regulation in boron dependent expression of *NIP5;1* Mayuki Tanaka[1], Susan Duncan[2], Naoyuki Sotta[1], Yukako Chiba[3,4], Hitoshi Onouchi[5], Satoshi Naito[4,5], Stan Maree[6], Verônica Grieneisen[6], Toru Fujiwara[1] ([1]Grad. Sch. Agri. Life Sci., Univ. Tokyo, [2]Organisms and Ecosystems, EI., [3]Grad. Sch. Life Sci., Hokkaido Univ., [4]Fac. Sci., Hokkaido Univ., [5]Grad. Sch. Agri., Hokkaido Univ., [6]Computational and Systems Biol., JIC)	2aI02 E Maternally Expressed MpKNOX1 Is Required For Sporophyte Development In *Marchantia polymorpha* Tetsuya Hisanaga, Shota Fujimoto, Keiji Nakajima (Grad. Sch. Bio. Sci., NAIST)		9:15
2aG03 Redox regulation of cyclic electron transport around Photosystem I by thioredoxin Yuki Okegawa, Ken Motohashi (Fac. Life Sci., Kyoto Sangyo Univ.)	2aH03 A RNA-binding protein in Arabidopsis regulates alternative splicing of spinach chloroplastic *ascorbate peroxidase* Shina Ohara[1], Noriaki Tanabe[2], Masahiro Tamoi[1,2], Kazuya Yoshimura[3], Shigeru Shigeoka[1,2] ([1]Dept. Adv. Biosci., Grad. Sch. Agr., Kinki Univ., [2]Dept. Adv. Biosci., Fac. Agr., Kinki Univ., [3]Dept. Food Nutr. Sci., Coll. Biasci. Biotech., Chubu Univ.)	2aI03 Development of a cell specific gene induction system using *Arabidopsis* female gametophytes Azusa Takahashi[1], Satomi Wada[2], Yasuhiro Kamei[3], Hiroko Urawa[4], Shuh-ichi Nishikawa[1] ([1]Fac. Sci., Niigata Univ., [2]Grad. Sch. Sci. and Tec., Niigata Univ., [3]NIBB, [4]Dept. Edu., Gifu Shotoku Gakuen Univ.)		9:30
2aG04 Analysis of cyclic electron flow around photosystem I in ruptured chloroplasts of C_4 and C_3 *Flaveria* Takako Ogawa, Kana Kobayashi, Yukimi Y. Taniguchi, Yuri Munekage (Grad. Sch. Sci. & Tec., Univ. Kwansei Gakuin)	2aH04 A novel PLS-type PPR protein is involved in RNA splicing of *nad5* pre-mRNA in the moss mitochondria Mizuho Ichinose[1,2], Chieko Sugita[1], Kensaku Nakajima[1], Yasuhiro Kawaguchi[1], Mamoru Sugita[1] ([1]Center for Gene Res., Nagoya Univ., [2]WPI-ITbM, Nagoya Univ.)	2aI04 A nuclear membrane protein involved in the polar nuclear fusion in Arabidopsis thaliana Chiharu Suzuki[1], Yuuki Yamaguchi[1], Shuh-ichi Nishikawa[2] ([1]Grad. Sch. Sci., Niigata univ., [2]Fac. Sci., Niigata univ.)		9:45
2aG05 A novel technique to monitor thylakoid lumen pH with leaf reflectance *in vivo* Kaori Kohzuma, Kouki Hikosaka (Grad. Sch. Life Sci., Tohoku Univ.)	2aH05 Identification of multiple types of the Arabidopsis CCR4-NOT complex with various combinations of deadenylases Toshihiro Arae[1], Kotone Morita[2], Yuya Suzuki[1], Yukako Chiba[1,3] ([1]Grad. Schl. Life Sci., Hokkaido Univ., [2]Schl. Sci., Hokkaido Univ., [3]Fac. Sci., Hokkaido Univ.)	2aI05 E A Paternally Expressed AP2-Type Transcription Factor, *OsASGR-BBML1*, Possibly Contribute to Early Zygotic Development in Rice Md Hassanur Rahman[1], Erika Toda[1,2], Masaaki Kobayashi[3], Toru Kudo[3], Yukinosuke Ohnishi[1], Kentaro Yano[3], Takashi Okamoto[1] ([1]Department of Biological Sciences, Tokyo Metropolitan University, Minami-osawa 1-1, Hachioji, Tokyo, 192-0392 Japan, [2]Plant Breeding Innovation Laboratory, RIKEN Innovation Center, Tsurumi-ku, Yokohama, 230-0045 Japan, [3]Department of Life Sciences, School of Agriculture, Meiji University, Kawasaki, 214-8571 Japan)		10:00

E=Presentation in English

● Day 2, Thu., March 29, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D	Room E	Room F
	Symposium S05 Maintenance of Stem-ness and Cell Fate Determination in Plants and Animals (9:00–12:00)	Symposium S06 Stories of Oxygen and Active Molecular Species in Photosynthetic Organisms (9:00–12:00)	Environmental responses/Abiotic stresses (Drought/Water/Osmotic pressure/Ion/Salt/Mineral/Others)	Organelles/Cytoskeletons	Plant-microbe interaction (Immunity/Others)	Vegetative growth
10:15			2aC06 Functional analysis of *D14* gene in a model strawberry, *Fragaria vesca*, using CRISPR/Cas9 Shoya Tagami[1], Syuki Fujii[1], Kanari Shimada[1], Keiko Shinohara[2], Yoko Harada[2], Keishi Osakabe[1], Yuriko Osakabe[1,3] ([1]Fac. Biosci. Bioind., Tokushima Univ., [2]Toku. Agri. For. Fish. Tech. Supp. Cen., [3]RIKEN, RInC)	2aD06 Relationship between Autophagy and a Type of Chloroplast-Associated Ubiquitination during Chloroplast Turnover in Arabidopsis. Yuta Kikuchi[1], Sakuya Nakamura[1], Jun Hidema[1], Masanori Izumi[1,2,3] ([1]Grad. Sch. Life Sci., Tohoku Univ, [2]FRIS, Tohoku Univ., [3]PRESTO, JST)	2aE06 E Recognition of microbe- and host damage-associated molecular patterns triggers salt stress tolerance in Arabidopsis thaliana Eliza Po-Iian Loo[1], Kohji Yamada[2], Hirotaka Ariga[3], Taishi Hirase[1], Yuri Tajima[1], Tadashi Fujiwara[1], Teruaki Taji[3], Yusuke Saijo[1,2] ([1]Grad Sch Biol Sci, NAIST, [2]Max Planck Institute for Plant Breeding Research, [3]Tokyo University of Agriculture)	2aF06 Structural and Developmental Analyses of Arabidopsis Hydathodes Using GFP Marker Lines Hiroki Yagi, Kentaro Tamura, Tomoo Shimada (Grad. Sch. Sci., Kyoto Univ.)
10:30			2aC07 Exploration of environment-associated metabolite markers in soybean Yuji Sawada[1], Masatoshi Shinagawa[2], Kouji Ochiai[2], Mami Okamoto[1], Muneo Sato[1], Yutaka Yamada[1], Akane Sakata[1], Masami Y. Hirai[1] ([1]RIKEN CSRS, [2]Daiz Energy Co., Ltd.)	2aD07 Autophagic Elimination of Mitochondria in Ultraviolet B-damaged Arabidopsis Leaves Sakuya Nakamura[1], Jun Hidema[1], Kohei Otomo[2], Tomomi Nemoto[2], Hiroyuki Ishida[3], Masanori Izumi[1,4,5] ([1]Grad. Sch. Life Sci., Tohoku Univ., [2]RIES, Hokkaido Univ., [3]Grad. Sch. Agri. Sci., Tohoku Univ., [4]FRIS, Tohoku Univ., [5]PRESTO, JST)	2aE07 E Genetic framework for root responses to damage associated Pep peptides in *Arabidopsis thaliana* Kentaro Okada[1], Kei Hiruma[1,2], Yusuke Saijo[1,2] ([1]Gla. Sch. Bio., NAIST, [2]JST, PRESTO)	2aF07 Analysis of water condition-dependent intercellular space formation in land plants Miya Mizutani[1,2], Kimitsune Ishizaki[2,3], Ryuichi Nishihama[2], Takayuki Kohchi[2], Tetsuya Higashiyama[1,4], Masahiro Kanaoka[1] ([1]Grad. Sch. Sci., Nagoya Univ., [2]Grad. Sch. Biostudies, Kyoto Univ., [3]Grad. Sch. Sci., Kobe Univ., [4]ITbM, Nagoya Univ.)
10:45			2aC08 Molecular evolution of plant-specific ceramide structures Toshiki Ishikawa, Shuhei Kuzuha, Maki Kawai-Yamada (Grad. Sch. Sci. Eng., Saitama Univ.)	2aD08 Vascular bundle-specific localizations and functions of *Ariabidopsis thaliana* myosin XI-F Zhongrui Duan[1,2], Yuno Shibuya[3], Kazuki Kubota[1], Akihiko Nakano[4,5], Kohji Ito[6], Motoki Tominaga[1,2,3] ([1]Fac. Educ. Integrated Arts. Sci., Univ. Waseda, [2]JST-ALCA, [3]Grad. Sch. Of Adv. Sci. and Eng., Univ. Waseda, [4]Grad. Sch. Sci., Univ. Tokyo, [5]RAP, RIKEN, [6]Grad. School Sci., Univ. Chiba)	2aE08 E Damage-associated Plant Elicitor Peptides promote both plant growth and stress responses in rice. Masako Fuji[1], Rena Tani[1], Shigetaka Yasuda[1], Yoshihiro Kobae[2], Takuma Ishizaki[3], Yasunari Fujita[3,4], Yutaka Sato[5], Yusuke Saijo[1] ([1]Grad. Sch. Bio. Sci., NAIST, [2]Hokkaido, NARO, [3]JIRCAS, [4]Grad. Sch. Life & Environment Sci., Tsukuba Univ., [5]National Institute of Genetics)	2aF08 Quantitative dissection of ABA-mediated suppression of macromolecular transport through plasmodesmata Takumi Tomoi[1,2], Munenori Kitagawa[3], Yoichi Sakata[4], Kensuke Kawade[2,5,6], Hirokazu Tsukaya[2,7], Tomomichi Fujita[8] ([1]Grad. Sch. Life Sci., Hokkaido Univ., [2]OIIB, [3]CSHL, [4]Dept. Biosci., Tokyo Univ. Agric., [5]NIBB, [6]Sch. Life Sci., Grad. Univ. Adv. Studies (SOKENDAI), [7]Grad. Sch. Sci., Univ. Tokyo, [8]Fac. Sci., Hokkaido Univ.)
11:00			2aC09 E Fine mapping of a QTL gene for Cd accumulation in barley Guijie Lei, Miho Kashino, Dezhi Wu, Naoki Yamaji, Kazuhiro Sato, Jian Feng Ma (IPSR, Okayama University)	2aD09 The interaction between Microtubules and Actin filaments in tip-growing cell of the moss Physcomitrella patens revealed by live imaging. Sahoko Otsuka[1], Ami Kawamura[2], Fumina Goto[2], Yoshikatsu Sato[3], Yuji Hiwatashi[1,2] ([1]Grad. Sch. Food, Ind. Sci., Univ. Miyagi, [2]Sch. Food, Ind. Sci., Univ. Miyagi, [3]WPI-ITbM, Univ. Nagoya)	2aE09 E Flg22 inhibits blue light-dependent activation of the plasma membrane H+-ATPase in guard cells Wenxiu Ye[1,2], Toshinori Kinoshita[2,3] ([1]JSPS International Research Fellows, [2]Institute of Transformative Bio-Molecule, Nagoya University, [3]Graduate School of Science, Nagoya University)	2aF09 Functional analysis of a novel plasma membrane protein that may control planar cell polarity (PCP) in the moss, *Physcomitrella patens* Chisato Shindoh[1], Ooi-Kock Teh[2], Junling Ren[1], Mitsuyasu Hasebe[3,4], Tomomichi Fujita[2] ([1]Grad. Sch. of Life Sci., Hokkaido Univ., [2]Fac. of Sci., Hokkaido Univ., [3]Sch. Life Sci., Grad. Univ. Adv. Stud., [4]Div. Evol. Biol., Natl. Inst. Basic Biol.)
11:15			2aC10 Plant autophagy is important to cope with zinc deficiency Daiki Shinozaki[1], Ekaterina Merkulova[2], Loreto Naya[2], Celine Masclaux-Daubresse[2], Kohki Yoshimoto[1] ([1]Dep. Life Sci., Sch. Agri., Meiji Univ., [2]INRA-AgroParisTech, Inst. Jean-Pierre Bourgin)	2aD10 ANGUSTIFOLIA Regulates the Alignment of Actin Filaments for Homeostatic Nuclear Positioning in Arabidopsis Leaves Kosei Iwabuchi[1], Haruna Ohnishi[2], Kentaro Tamura[2], Yoichiro Fukao[3], Hirokazu Tsukaya[4,5], Ikuko Hara-Nishimura[1] ([1]Grad. Sch. Nat. Sci., Konan Univ., [2]Grad. Sch. Sci., Kyoto Univ., [3]Coll. Life Sci., Ritsumeikan Univ., [4]Grad. Sch. Sci., Univ. Tokyo, [5]OIIB)	2aE10 E Dual RNA-sequencing of root-knot nematodes and their host plants reveals plant immune responses and nematode virulent effectors Kazuki Sato[1], Yasuhiro Kadota[1], Yasunori Ichihashi[1,2], Pamela Gan[1], Taketo Uehara[3], Hideaki Iwahori[4], Noriko Maki[1], Takamasa Suzuki[5], Ken Shirasu[1] ([1]RIKEN CSRS, [2]JST PRESTO, [3]National Agriculture and Food Research Organization, [4]Univ. Ryukoku, [5]Univ. Chubu)	2aF10 Visualization of periodic root cap sloughing in the growing roots of *Arabidopsis thaliana* by long-term time-lapse imaging Tatsuaki Goh, Koki Ueno, Shunsuke Miyashima, Keiji Nakajima (Grad. Sch. Biol. Sci., NAIST)
11:30			2aC11 Dauciform root formation and low-P tolerance of *Fimbristylis dichotoma* (Cyperaceae) Rie Matsuyama[1], Jun Wasaki[1,2] ([1]Sch. Ingegr. Art. Sci., Hiroshima Univ., [2]Grad. Sch. Biosphere Sci., Hiroshima Univ.)	2aD11 Infection by *Colletotrichum higginsianum* through an actin filament fragmentation in *Arabidopsis thaliana* cells Takashi L. Shimada[1], Yoshitaka Takano[2], Akihiko Nakano[3,4], Takashi Ueda[5,6,7] ([1]Chiba Univ., [2]Kyoto Univ., [3]Univ. Tokyo, [4]RIKEN, [5]NIBB, [6]JST PRESTO, [7]SOKENDAI)	2aE11 E REAL1, a novel factor of PRR complex negatively regulates PAMP-triggered signal transduction pathways Yukihisa Goto[1,2], Yasuhiro Kadota[1], Hidenori Matsui[1,4], Jan Sklenar[3], Paul Derbyshire[3], Frank Menke[3], Hirofumi Nakagami[1,5], Cyril Zipfel[3], Ken Shirasu[1,2] ([1]RIKEN CSRS, [2]The University of Tokyo, [3]The Sainsbury Laboratory, [4]Okayama University, [5]Max Planck Institute for Plant Breeding Researh)	2aF11 Functional characterization of *MpbHLH40*, a positive regulator of gemma dormancy in the liverwort *Marchantia polymorpha* Mikako Yoshikawa[1], Shigeyuki Tsukamoto[1], Hidehiro Fukaki[1], Tetsuro Mimura[1], Daisuke Takezawa[2], Yoichi Sakata[3], Takayuki Kohchi[4], Kimitsune Ishizaki[1] ([1]Grad. Sch. Sci., Kobe Univ., [2]Grad. Sch. Sci. and Eng., Saitama Univ., [3]Grad. Sch. Applied Bio-Science., Tokyo Univ. of Agri., [4]Grad. Sch. Biostudies., Kyoto Univ.)

Room G	Room H	Room I	Room J	Time
Photosynthesis	Transcriptional, post-transcriptional or translational regulations	Reproductive growth		
2aG06 Co-migration analysis of the late chlorophyll-biosynthesis enzymes by blue-native polyacrylamide gel electrophoresis Koharu Takahashi[1], Fumiyoshi Myouga[2], Shin-Ichiro Ozawa[3], Kazuo Shinozaki[2], Yuichiro Takahashi[3], Ayumi Tanaka[1], Atsushi Takabayashi[1], Ryouichi Tanaka[1] ([1]Inst. Low Temperature Sci., Univ. Hokkaido, [2]RIKEN CSRS, [3]Grad. Natural Sci. Tech., Univ. Okayama)	2aH06 Arabidopsis deadenylases, AtCCR4a/4b are important for robust circadian timekeeping Akiko Nagumo[1], Yuya Suzuki[1], Masami Y. Hirai[2], C. Robertson McClung[3], Pamela J. Green[4], Akinori Takahashi[5], Tadashi Yamamoto[5], Yukako Chiba[1,6,7] ([1]Grad. Schl. Life Sci., Hokkaido Univ., [2]RIKEN CSRS, [3]Dept. Biol. Sci., Dartmouth Coll., [4]Delaware Biotech. Inst., Univ. Delaware, [5]OIST Cell Signal Unit, [6]Fac. Sci., Hokkaido Univ., [7]JST PRESTO)	2aI06 Fertilization-independent division and development of an isolated rice egg cell Kaori Totsuka, Yumiko Sukawa, Takashi Okamoto (Dept of Biol Sci, Tokyo Metropolitan Univ.)		10:15
2aG07 Ⓔ Identification of PSI assembly apparatus consisting of Y3IP1, Ycf3, and Ycf4 in a green alga *Chlamydomonas reinhardtii* Sreedhar Nellaepalli[1,2], Hiroshi Kuroda[1,2], Shin-Ichiro Ozawa[1,2], Yuichiro Takahashi[1,2] ([1]Research Institute for Interdisciplinary Science, Okayama University, [2]JST-CREST)	2aH07 Upstream open reading frame-mediated regulation of translation and degradation of Arabidopsis *LONESOME HIGHWAY* mRNA in response to thermospermine Shun-ichi Umehara[1], Kaori Kimata[1], Satomi Toda[2], Yayoi Endo[2], Arisa Ohsumi[1], Isao Ebina[3], Satoshi Naito[1,3], Hitoshi Onouchi[1] ([1]Grad. Sch. of Agric., Hokkaido Univ., [2]Fac. of Agric., Hokkaido Univ., [3]Grad. Sch. of Life Sci., Hokkaido Univ.)	2aI07 Species recognition and LURE1-PRK6 interaction in pollen tube attraction Takuya Nagae[1], Ashutosh Srivastava[2], Florence Tama[2], Tetsuya Higashiyama[1,2] ([1]Grad. Sch. Sci., Nagoya Univ, [2]ITbM, Nagoya Univ)		10:30
2aG08 Effects of amino acid substitutions on the photosystem II D1 subunit participating a hydrogen bond network on the PSII activity in *Chlamydomonas reinhardtii* Hiroshi Kuroda[1], Natsumi Kodama[1], Xiao-Yu Sun[2], Yasuhiro Kashino[3], Yuichiro Takahashi[1] ([1]RIIS, Okayama Univ., [2]Grad. Sch. Nat. Sci., Okayama Univ., [3]Grad. Sch. Life Sci., Univ. Hyogo)	2aH08 Upstream ORF-mediated translational regulation in response to nucleolar stress in Arabidopsis Shun Sasaki[1], Rin Kudo[1], Shun Watanabe[2], Iwai Ohbayashi[3], Munetaka Sugiyama[4], Yuriko Osakabe[5], Keishi Osakabe[5], Satoshi Naito[1,2], Hitoshi Onouchi[1] ([1]Grad. Sch. Agric., Hokkaido Univ, [2]Grad. Sch. Life Sci., Hokkaido Univ., [3]Col. Life Sci., Fujian Agriculture and Forestry Univ., [4]Grad. Sch. Sci., Univ. of Tokyo, [5]Fac, Biosci. Bioind., Tokushima Univ.)	2aI08 Ⓔ A forward genetic strategy to identify pollen factor triggering compatible pollination Surachat Tangpranomkorn[1], Sota Fujii[1], Motoko Igarashi[2], Seiji Takayama[1] ([1]Grad. Sch. Agri. Life Sci., Univ. Tokyo, [2]Grad. Sch. Biol. Sci., NAIST)		10:45
2aG09 Analysis of PSI-PSII megacomplex of Physcomitrella patens Ryo Furukawa[1], Makio Yokono[2], Seiji Akimoto[3], Tomomichi Fujita[4], Atsushi Takabayashi[1], Ayumi Tanaka[1] ([1]ILTS, Hokkaido Univ., [2]Nippon Flour Mills Co., Ltd., [3]Molecular Photoscience Research Center Kobe Univ., [4]Fac. Sci., Hokkaido Univ.)	2aH09 Ⓔ *In Vitro* Analysis of Small RNA Preference of ARGONAUTE 4 in *Arabidopsis thaliana* Wei Liu[1,2], Yukihide Tomari[1,2], Hiro-oki Iwakawa[1,2] ([1]IMCB., Univ. Tokyo, [2]GSFS., Univ. Tokyo)	2aI09 Why do *Brassica rapa SRK-SCR* genes not function in *Arabidopsis thaliana*? Masaya Yamamoto, Takeshi Nishio (Tohoku Univ.)		11:00
2aG10 Unique photosynthesis in seeds of leguminous plants Kazuya Sugimoto[1], Kintake Sonoike[2] ([1]Grand. Sci. Eng., Uni. Waseda, [2]Edu. Intgr. Arts. Sci., Uni. Waseda)	2aH10 Functional Analysis of miR319 in Liverwort, *Marchantia polymorpha* Kazutaka Futagami[1], Masayuki Tsuzuki[2], Takahiro Hamada[1], Yuichiro Watanabe[1] ([1]Grad. Sch. Arts and Sci., Univ. Tokyo, [2]Dept. Mol., Cell., and Dev. Biol., Univ. Michigan)	2aI10 Modeling the self-recognition response during pollen-pistil interactions in the Brassicaceae Sota Fujii[1,2], Yuki Inoue[1,3], Yuki Tamura[1], Seiji Takayama[1] ([1]Grad Sch Agric Life Sci, Univ Tokyo, [2]JST PRESTO, [3]Grad Sch Biol Sci, NAIST)		11:15
2aG11 Study of State Transition by Using High-Resolution Cryogenic Microscope Yuki Fujita, Wakana Ito, Yutaka Shibata (Grad. Sch. Sci., Univ. Tohoku)	2aH11 Analyses of TARP4/5, novel candidates of transposon silencing factors, in *Arabidopsis* Takahito Takei[1], Michio Tsukada[2], Yukio Kurihara[3], Minami Matsui[3], Yuichiro Watanabe[1,2], Takahiro Hamada[2] ([1]Grad. Sch. Sci., Univ. Tokyo, [2]Grad. Sch. Arts and Sci., Univ. Tokyo, [3]CSRS., Riken)	2aI11 Gene duplication and functional divergence are associated with evolution of *Restorer-of-fertility 1* in sugar beet Takumi Arakawa, Takaya Katsuyama, Hajime Sugaya, Yujiro Honma, Chihiro Sano, Tomohiko Kubo (Grad. Sch. Sci., Univ. Hokkaido)		11:30

Ⓔ=Presentation in English

● Day 2, Thu., March 29, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D	Room E	Room F
11:45	Symposium S05 Maintenance of Stem-ness and Cell Fate Determination in Plants and Animals (9:00–12:00)	Symposium S06 Stories of Oxygen and Active Molecular Species in Photosynthetic Organisms (9:00–12:00)	Environmental responses/Abiotic stresses (Drought/Water/Osmotic pressure/Ion/Salt/Mineral/Others) 2aC12 Genome Wide Association Study of Cadmium Tolerance in *Arabidopsis thaliana* Accessions Yuki Nakano[1], Kazutaka Kusunoki[1], Gregory J. Taylor[2], Toshihiro Watanabe[3], Satoshi Iuchi[4], Masatomo Kobayashi[4], Hiroyuki Koyama[1,5], Yuriko Kobayashi[1,5] ([1]Uni. Grad. Sch. of Agr. Sci., Univ. Gifu, [2]Fac. of Sci., Univ. of Alberta, [3]Res. Fac. of Agr., Univ. Hokkaido, [4]RIKEN BRC, [5]Appl. Biol. Sci., Univ. Gifu)	Organelles/Cytoskeletons 2aD12 Quantitative evaluation of cytoskeletal bundling by intensity distribution statistics Takumi Higaki[1], Kae Akita[2], Seiichiro Hasezawa[2] ([1]IROAST, Kumamoto Univ., [2]GSFS, Univ. Tokyo)	Plant-microbe interaction (Immunity/Others) 2aE12 Gene expression and physiological response regulated by 5-aminolevulinate in Arabidopsis Takahiko Tanaka[1], Sakura Iwamura[1], Chen Duan[1], Minori Sakamoto[2], Yuri Kanbayashi[2], Shuji Kuroda[3], Tomohide Uno[1,2], Kengo Kanamaru[1,2] ([1]Grad. Sch. Agri. Sci., Kobe Univ., [2]Fac. Agri., Kobe Univ., [3]OAST., Kobe Univ.)	Vegetative growth 2aF12 GSSG promotes the vernalization-dependent seed dormancy breakage and consequent seedling growth of Japanese larch Ken'ichi Ogawa[1], Aya Hatano-Iwasaki[1], Masato Nakagawa[1], Taiichi Iki[2], Akira Tamura[2], Masashi Hara[3], Hiroyuki Tobita[4] ([1]Res. Inst. Biol.l Sci., Okayama (RIBS OKAYAMA), [2]Forest Tree Breed. Center, For. & Forest Prod. Res. Inst. (FTBC, FFPRI), [3]Sumitomo For. Co., Ltd., [4]For. & Forest Prod. Res. Inst. (FFPRI))

Room G	Room H	Room I	Room J	Time
Photosynthesis	Transcriptional, post-transcriptional or translational regulations	Reproductive growth		
2aG12 Dissipation mechanism of extra excitation energy in drought-tolerant mosses resembles that of drought-tolerant lichens; Fluoreoscence global/target analysis Hisanori Yamakawa[1], IHM van Stokkuma[2], Urlich Heber[3], Shigeru Itoh[4] ([1]Graduate Sch.Bioagricul, Nagoya Univ., [2]Inst. Lasers, Life and Biophoto, Facu. Sci, Vrije Univ, [3]Julius von Sachs Inst Biol.Sci, Univ. Wurzburg, [4]Dept Physics, Grad.Schl Sci, Nagoya Univ.)	2aH12 E Novel stress-inducible antisense RNAs of protein-coding loci are synthesized by Arabidopsis RDRs Akihiro Matsui[1], Kei Iida[2], Maho Tanaka[1], Ri-ichiroh Manabe[3], Katsushi Yamaguchi[4], Kayoko Mizuhashi[1], Jong-Myong Kim[1], Norio Kobayashi[3], Shuji Shigenobu[4], Kazuo Shinozaki[1], Motoaki Seki[1,5,6] ([1]CSRS, RIKEN, [2]Grad. Sch. Med, Kyoto Univ., [3]CLST, RIKEN, [4]NIBB Core Research Facilities, [5]Kihara Inst. Biol. Res., Yokohama City Univ., [6]CREST, JST)	2aI12 Suppression of flowering in semiaquatic plant *Rorippa aquatica* Shuka Ikematsu[1], Tomoaki Sakamoto[1], Hokuto Nakayama[2], Seisuke Kimura[1] ([1]Faculty of Life Science, Kyoto Sangyo University, [2]Department of Plant Biology, University of California at Davis)		11:45

E=Presentation in English

● Day 2, Thu., March 29, PM (13:30–15:45)

Time	Room A	Room B	Room C	Room D	Room E	Room F
	Symposium S07 Cellular Survival Strategy by Autophagy and Ubiquitin Systems (13:30–16:30)			Environmental responses/Abiotic stresses (Ion/Salt/Mineral)	Plant-microbe interaction (Immunity/Others)	Vegetative growth
13:30				2pD01 Analysis of boric acid toxicity mechanism using *Saccharomyces cerevisiae* Kenta Okada[1], Akira Nozawa[1], Shota Nonoyama[1], Hiroshi Yamashita[2], Yoshinori Hasegawa[3], Miyuki Kawada[4], Takayuki Sekito[4], Ju Yaen Kim[5], Genji Kurisu[5], Tatsuya Sawasaki[1] ([1]PROS, Ehime Univ., [2]Grad. Sch. Sci. Eng., Ehime Univ., [3]Kazusa DNA Res. Inst., [4]Grad. Sch. Agr., Ehime Univ., [5]Inst. Protein Res., Osaka Univ.)	2pE01 E Towards imaging-based understanding of the plant immune system Shigeyuki Betsuyaku[1], Eriko Betsuyaku[1], Yasuhiro Ishiga[1], Takako Ishiga[2], Nobuhiko Nomura[1] ([1]Faculty of Life and Environmental Sciences, [2]Graduate School of Life and Environmental Sciences)	2pF01 Characterization Of Suppressor Mutants Of *rfc3* Lacking Stem Cells In Lateral Roots Of *Arabidopsis thaliana* Yumi Nagashima[1], Katsutomo Oshiro[1], Akiyasu Iwase[1], Shiori Nakamura[1], Miyuki Nakata[2], Gorou Horiguchi[1,2] ([1]Dept. Life Sci., Coll. Sci., Rikkyo Univ., [2]Cntr. Life Sci., Coll. Sci., Rikkyo Univ.)
13:45				2pD02 E Cesium retards plant growth through specific inhibition of potassium influx via the AKT1 channel complex in Arabidopsis Eri Adams[1], Takae Miyazaki[1], Shunya Saito[2], Nobuyuki Uozumi[2], Ryoung Shin[1] ([1]RIKEN CSRS, [2]Grad. Sch. Eng., Tohoku Univ.)	2pE02 Analysis on spatiotemporal regulation of the camalexin synthetic pathway during ETI in *Arabidopsis* Mizuki Iwamoto[1], Nobuhiko Nomura[2], Shigeyuki Betsuyaku[2] ([1]Coll. Agro-Biological Resour. Sci., Univ. Tsukuba, [2]Fac. Life and Environ. Sci., Univ. Tsukuba)	2pF02 Reduced expression of Arabidopsis *APUM24* caused ribosomal-RNA processing defect and ribosomal stress in a sugar-dependent manner Shugo Maekawa, Tetsuya Ishida, Shuichi Yanagisawa (Biotech. Res. Center, Univ. Tokyo)
14:00				2pD03 E Functional characterization of a transcription factor (ART2) implicated in aluminum tolerance of rice Jing Che, Tomokazu Tsutsui, Kengo Yokosho, Naoki Yamaji, Jian Feng Ma (IPSR, Okayama University)	2pE03 Non-stomatal Invasion Found In *Nicotiana tabacum* And *Pseudomonas syringae* pv. *tabaci* Interaction Nozomu Maruyama[1], Tatsunori Kiyokawa[1], Takako Ishiga[1], Yasuhiro Ishiga[2], Nozomu Obana[2], Yuki Ichinose[3], Nobuhiko Nomura[2], Shigeyuki Betsuyaku[2] ([1]Grad. Sch. Life and Environ. Sci., Univ. Tsukuba, [2]Fac. Life and Environ. Sci., Univ. Tsukuba, [3]Grad. Sch. Environ. and Life sci. Okayama Univ.)	2pF03 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[1], Kazushi Taniguchi[2], Chihiro Kaneko[2], Yohei Ishi[2], Takuya Ishida[1], Hiromi Mutsuro-Aoki[1,3], Atsushi Koyanagi[2], Hiroaki Kusano[1,4], Nobuo Suzui[5], Yong-Gen Yin[5], Naoki Kawachi[5], Shu Fujimaki[6], Hiroaki Shimada[1,2] ([1]Dep. of Biol. Sci. and Tech., Tokyo Univ. of Sci., [2]Grad. Biol. Sci. and Tech., Tokyo Univ. of Sci., [3]Biom. Eng. Res. Div, RIKEN, [4]Res. ins. for Sustainable Humanosphere, Kyoto Univ., [5]Takasaki Adv. Radi. Res. Ins., Nat. Inst. for Quant. and Radiol. Sci. and Tech., [6]Dep. of Manag. and Plan., Nat. Inst. for Quant. and Radiol. Sci. and Tech.)
14:15				2pD04 Identification of C-terminal regions in AtPCS1 essential for activation by arsenite Shimpei Uraguchi[1], Yuka Sone[1], Yumika Ohta[1], Naoko Ohkama-Ohtsu[2], Ryosuke Nakamura[1], Yasukazu Takanezawa[1], Stephan Clemens[3], Masako Kiyono[1] ([1]Sch. Pharm., Kitasato Univ., [2]Inst. Agri., Tokyo Univ. Agri. Tech., [3]Dep. Plant Physiol., Univ. Bayreuth)	2pE04 Recognition mechanism of EFa50 region within Elongation factor Tu (EF-Tu) derived from bacteria Tomohiro Matsuda[1], Takehito Furukawa[2], Yutaka Masutani[1], Hiroyuki Hirai[2], Fang-Sik Che[1,2] ([1]Graduate School of Bioscience, Nagahama Institute of Bio-Science and Technology, [2]Department of Bioscience, Nagahama Institute of Bio-Science and Technology)	2pF04 OLI1, HDA9, and SANT1-dependent Regulation Of Cell Proliferation In Leaf Primordia Of *Arabidopsis thaliana* Marina Suzuki[1], Nanae Shinozuka[1], Taku Demura[2], Hirokazu Tsukaya[3,4], Gorou Horiguchi[1,5] ([1]Dept. Life Sci., Coll. Sci., Rikkyo Univ., [2]Grad. Sch. Biol. Sci., NAIST, [3]Grad. Sch. Sci., Univ. Tokyo, [4]Okazaki Inst. Intgr. Biosci., [5]Cntr. Life Sci., Coll. Sci., Rikkyo Univ.)
14:30				2pD05 Expression of HKTs from Sporobolus virginicus Mediates Na+ and K+ Transport and Enhances Growth of Transgenic Arabidopsis under Potassium Starved Conditions. Yuichi Tada[1], Chisato Endo[1], Maki Katsuhara[2], Tomoaki Horie[3], Mineo Shibasaka[2], Yoshiki Nakahara[2], Takamitsu Kurusu[1] ([1]Sch. of Biosci. and Biotechnol., Tokyo Univ. of Technol., [2]Inst. of Plant Sci. and Resources, Okayama Univ., [3]Fac. of Textile Sci. and Technol., Shinshu Univ.)	2pE05 Molecular Analysis On The Plant Immune System Induced By Recognizing Different Regions Within Flagellin Molecule Yuya Katsuragi[1], Takahiko Murakami[2], Yugo Imao[2], Takehito Furukawa[1], Hiroyuki Hirai[1], Fang-Sik Che[1,2] ([1]Dept. of Bio-Sci., Nagahama Inst. of Bio-Sci. and Tech., [2]Grad. Sch. of Biosci., Nagahama Inst. of Bio-Sci. and Tech.)	2pF05 *an3*-dependent compensation during the leaf development acts cell-autonomously in epidermis and non-cell-autonomously in palisade mesophyll tissue Mamoru Nozaki[1], Kensuke Kawade[1,2,3], Gorou Horiguchi[4,5], Hirokazu Tsukaya[6] ([1]Okazaki Institute for Integrative Bioscience (OIIB), [2]National Institute for Basic Biology (NIBB), [3]School of Life Science, Graduate University for Advanced Studies (SOKENDAI), [4]College of Science, Rikkyo University (Coll. Sci., Rikkyo Univ.), [5]Research Center for Life Science, Rikkyo University (Res. Cent. Life Sci., Rikkyo Univ.), [6]Graduate School of Science, University of Tokyo (Grad, School Science, Univ. Tokyo))
14:45				2pD06 Thermospermine is involved in salt stress tolerance in Arabidopsis. Shiori Shinohara, Hiroyasu Motose, Taku Takahashi (Grad. Sch. Nat. Sci. & Tech.,Univ. Okayama)	2pE06 Recognition mechanism of CD2-0 region within flagellin derived from pathogenic bacteria Yugo Imao[1], Yuya Katsuragi[2], Takahiko Murakami[1], Hiroyuki Hirai[2], Fang-Sik Che[1,2] ([1]Grad. Sch. of Bio-Sci., Nagahama Inst. of Bio-Sci. and Tech., [2]Dept. of Bio-Sci., Nagahama Inst. of Bio-Sci. and Tech.)	2pF06 Isolation and characterization of Arabidopsis leaf thickness mutant by using new LTMI method Yuki Yoshida[1], Noriyuki N. Narita[2,3], Rina Hoshino[1], Satoshi Yano[2], Yusuke Kazama[4], Tomoko Abe[4], Gorou Horiguchi[5], Hirokazu Tsukaya[1,2] ([1]Dept. Biol. Sci., Univ. Tokyo, [2]OIIB, NINS, [3]Sch. Life Sci., SOKENDAI, [4]RIKEN Nishina Center, [5]Dept. Life Sci., Rikkyo Univ.)

Room G	Room H	Room I	Room J	Time
Photosynthesis	**Biomembrane/Ion and solute transport**	**Reproductive growth**		
2pG01 Physiological study on the remarkable red-shifted chlorophylls observed in photosystems of an Antarctic green-alga, *Prasiola crispa* Makiko Kosugi[1], Shin-Ichiro Ozawa[2], Miku Itoh[1], Yasuhiro Kamei[3], Yasuhiro Kashino[4], Yuichiro Takahashi[2], Shigeru Itoh[5], Hiroyuki Koike[1] ([1]Facult. Sci. Engineer., Chuo Univ., [2]Facult. Sci., Okayama Univ., [3]Spec. Bioimag.Facilit., NIBB, [4]Facult. Sci., Univ. Hyogo, [5]Facult. Sci., Nagoya Univ.)	2pH01 Characterization of nitrate transporter activity of small transmembrane proteins in cyanobacteria Shin-ichi Maeda, Risa Aoba, Tatsuo Omata (Grad. Sch. Bioagr. Sci., Nagoya Univ.)	2pI01 Physcomitrella MADS-box genes regulate water supply and sperm movement necessary for fertilization Shizuka Koshimizu[1,2], Rumiko Kofuji[1,3], Yuko Sasaki-Sekimoto[4,5], Masahide Kikkawa[6], Mie Shimojima[4], Hiroyuki Ohta[4,5,7], Shuji Shigenobu[2,8], Yukiko Kabeya[1], Yuji Hiwatashi[1,9], Yosuke Tamada[1,2], Takashi Murata[1,2], Mitsuyasu Hasebe[1,2] ([1]Div. Evol. Biol., NIBB, [2]Sch. Sci., SOKENDAI, [3]Grad. Sch. Nat. Sci. & Tech., Univ. Kanazawa, [4]Grad. Sch. Life Sci. & Tech., Tokyo Tech, [5]JST CREST, [6]Grad. Sch. Medicine., Univ. Tokyo, [7]ELSI, Tokyo Tech, [8]Func. Genomics Fac., NIBB, [9]Grad. Sch. Food Industrial Sci., Univ. Miyagi)		13:30
2pG02 Biochemical characterization of PSI-LHCI subcomplexes in *Chlamydomonas reinhardtii* Shin-Ichiro Ozawa, Yuichiro Takahashi (RIIS, Okayama Univ.)	2pH02 Ion Permeability of Purified Ca^{2+}-permeable Mechanosensitive Channel Proteins of Arabidopsis Hidetoshi Iida[1], Kazuko Iida[1], Daiki Ikebe[2], Kenjiro Yoshimura[2] ([1]Dept. Biol., Tokyo Gakugei Univ., [2]Dept. Mach. Cont. Syst., Shibaura Inst. Tech.)	2pI02 Integration of photoperiod and gibberellin signaling during floral induction in Arabidopsis thaliana Atsuko Kinoshita, Qing Sang, Rene Richter, Maida Romera-Branchat, Annabel van Driel, George Coupland (MPI for Plant Breeding Research)		13:45
2pG03 Energetics in both electron transfer branches in photosynthetic reaction centers Keisuke Kawashima, Hiroshi Ishikita (The University of Tokyo)	2pH03 Ⓔ Direct Patch Clamp Analysis of *Arabidopsis* Chloroplast Membranes Shintaro Munemasa, Yoshimasa Nakamura, Yoshiyuki Murata (Graduate School of Environmental and Life Science, Okayama Univ.)	2pI03 Jasmonic Acid Promotes Flower Opening and Floral Organ Development through the Upregulated Expression of SlMYB21 Transcription Factor in Tomato Tomoko Niwa[1], Takamasa Suzuki[2], Yumiko Takebayashi[3], Rie Ishiguro[1], Tetsuya Higashiyama[4,5], Hitoshi Sakakibara[1,3], Sumie Ishiguro[1] ([1]Grad. Sch. Bio-agr. Sci., Nagoya Univ., [2]Coll. Biosci. Biotech., Chubu Univ., [3]RIKEN CSRS, [4]Grad. Sch. Sci., Nagoya Univ., [5]WPI-ITbM, Nagoya Univ.)		14:00
2pG04 Mechanism of O2 evolution, water incorporation and recovery in photosystem II Keisuke Kawashima[1], Tomohiro Takaoka[1], Hiroki Kimura[1], Keisuke Saito[1,2], Hiroshi Ishikita[1,2] ([1]Grad. Sch. Eng., Univ. Tokyo, [2]RCAST, Univ. Tokyo)	2pH04 ER-localized aquaporin SIP2;1 is required for pollen germination in *Arabidopsis thaliana* Ryosuke Sato, Rie Sakakibara, Kyosuke Miyamoto, Masayoshi Maeshima (Laboratory of Cell Dynamics Graduate School of Bioagricultural Sciences Nagoya University)	2pI04 Ⓔ Studies on environmental factors affecting flower formation and branch development in cassava Hiroki Tokunaga[1], Anh Hai Nguyen[2], Quynh Nhu Thi Do[2], Thu Anh Vu[2], Hiroyuki Tsuji[4], Manabu Ishitani[3], Yoshinori Utsumi[1], Motoaki Seki[1] ([1]CSRS, RIKEN, [2]AGI, Vietnam, [3]KIBR, YCU, [4]CIAT, Colombia)		14:15
2pG05 Molecular mechanism of heat damage in photosystem II Naotaka Terashima, Hiroyuki Tsukuno, Hiroyuki Mino (Grad. Sch. Sci., Nagoya Univ)	2pH05 Study on plant cystinosin-like protein Yoichi Nakanishi, Midori Takemura, Mayuko Naganawa, Masayoshi Maeshima (Grad. Sch. Bioagr. Sci., Nagoya Univ.)	2pI05 Multi-step termination of floral stem cell activities in Arabidopsis Toshiro Ito[1], Nobutoshi Yamaguchi[1], Yifeng Xu[1], Bo Sun[2] ([1]Nara Institute of Science and Technology, [2]Nanjin University)		14:30
Environmental response of photosynthesis or respiration		**New technology**		
2pG06 Regulatory mechanism of chloroplastic NADP pool size in response to light condition Shin-nosuke Hashida[1], Pierre Petriacq[2], Maki Kawai-Yamada[3] ([1]Environ. Sci. Lab., CRIEPI, [2]Bordeaux Aquitaine Centre, INRA, [3]Grad. Sch. Sci. & Eng., Saitama Univ.)	2pH06 Analysis of a second Arabidopsis plastidic PAPS transporter, PAPST2 Akira Nozawa[1], Hitoshi Myoraku[1], Tsukasa Matsui[2], Hiroyuki Inoue[1], Takayuki Sasaki[3], Yoko Yamamoto[3], Gen-ichiro Arimura[3], Tatsuya Sawasaki[1] ([1]PROS, Ehime Univ., [2]Fac. Indus. Sci. Tech., Tokyo Univ. Sci., [3]IPSR, Okayama Univ.)	2pI06 Application of CRISPR/Cas9 system in Arabidopsis thaliana Daisuke Miki[1], Wenxin Zhang[1], Wenjie Zeng[1], Zhengyan Feng[1], Jian-Kang Zhu[1,2] ([1]Shanghai Center for Plant Stress Biology (PSC), [2]Department of Horticulture and Landscape Architecture, Purdue University)		14:45

Ⓔ=Presentation in English

● Day 2, Thu., March 29, PM (13:30–15:45)

Time	Room A	Room B	Room C	Room D	Room E	Room F
	Symposium S07 Cellular Survival Strategy by Autophagy and Ubiquitin Systems (13:30–16:30)			Environmental responses/Abiotic stresses (Ion/Salt/Mineral)	Plant-microbe interaction (Immunity/Others)	Vegetative growth
15:00				2pD07 Genomics of salt tolerance in a wild species Vigna trilobata Ken Naito[1,2], Hiroaki Sakai[3] ([1]Genetic Resources Center, NARO, [2]JST PRESTO, [3]Advanced Anaysis Center, NARO)	2pE07 Induction mechanism of hypersensitive response cell death mediated by Ca^{2+}-dependent protein kinase 8 in rice Naoki Tsuchimoto[1], Mayu Kamimura[2], Fang-Sik Che[1,2] ([1]Grad. Sch. of BioSci. Nagahama Inst. of Bio-Sci. and Tech1, [2]Div. of Bio-Sci. Nagahama Inst. of Bio-Sci. and Tech.)	2pF07 E Mechanisms of Unifacial Leaf Morphogenesis in *Juncus prismatocarpus* Xiaofeng Yin[1], Hirokazu Tsukaya[1,2] ([1]Graduate School of Science, The University of Tokyo, [2]Okazaki Institute for Integrative Bioscience, National Institute of Natural Sciences)
15:15				2pD08 E Na^+ compartmentalization related to salinity stress tolerance in quinoa seedlings Yasufumi Kobayashi[1], Yasunari Fujita[1,2] ([1]Biol. Resources Post-harvest Div., JIRCAS, [2]Grad. Sch. Life Environ. Sci., Univ. Tsukuba)	2pE08 E Functional analysis of *Arabidopsis* Cysteine-rich receptor-like kinase CRK2 Sachie Kimura[1], Nghia Le Tri[1], Kerri Hunter[1], Anne Rokka[2], Michael Wrzaczek[1] ([1]Department of Biosciences, Univ. Helsinki, [2]Turku Centre for Biotechnology, Univ. Turku and Åbo Akademi Univ.)	2pF08 Effects of blue light signals and sugar signal on leaf-thickening growth Rina Hoshino[1], Yuki Yoshida[1], Hirokazu Tsukaya[1,2] ([1]Grad. Sch. Sci. Univ. Tokyo, [2]NIIS, OIIB)
15:30				2pD09 A novel compound FSL0260 enhances salinity stress tolerance via mitochondrial respiration in Arabidopsis thaliana Kaori Sako[1,4], Yushi Futamura[1], Takeshi Shimizu[1], Hiroyuki Hirano[1], Akihiro Matsui[1], Harumi Aono[1], Kenshiro Shimizu[1], Makoto Kawatani[1], Minoru Ueda[1,4], Maho Tanaka[1], Ko Noguchi[2,4], Hiroyuki Osada[1], Motoaki Seki[1,3,4] ([1]CSRS, RIKEN, [2]Sch. Life Sci., Tokyo Univ. Pharm. Life Sci., [3]Kihara Inst, Yokohama City Univ., [4]CREST, JST)	2pE09 Identification of specific PTI inhibitors and analysis of its inhibitory mechanism in rice Chika Kataoka[1], Takehito Furukawa[2], Tadao Asami[3], Fang-Sik Che[1,2] ([1]Grad. Sch. of Bio-Sci, Nagahama Inst. of Bio-Sci. and Tech., [2]Dept. of Bio, Nagahama Inst. of Bio-Sci. and Tech., [3]Dept. Appl. Biol. Chem., Univ. of Tokyo)	

Room G	Room H	Room I	Room J	Time
Environmental response of photosynthesis or respiration	Biomembrane/Ion and solute transport	New technology		
2pG07 The role of stomatal regulation in rice growth under elevated CO_2 condition Kensuke Kusumi, Suzumi Ehara, Kanae Tajiri, Koh Iba (Fac. Sci., Kyushu Univ.)	2pH07 Transporters involved in preferential distribution of boron in rice Ji Feng Shao, Naoki Yamaji, Jian Feng Ma (IPSR, Okayama University)	2pI07 In planta genome editing targeting L2 germ line cells of SAM in wheat Haruyasu Hamada[2], Qianyan Linghu[1], Yuelin Liu[1], Yozo Nagira[2], Ryuji Miki[2], Naoaki Taoka[2], Ryozo Imai[1] ([1]NIAS, NARO, [2]Kaneka Co.)		15:00
2pG08 Comprehensive detection of protein phosphorylation in thylakoid membranes using Phos-tag Keiji Nishioka[1], Yusuke Kato[1], Shin-Ichiro Ozawa[2], Yuichiro Takahashi[2], Wataru Sakamoto[1] ([1]Inst. Plant Sci. Res., Okayama Univ., [2]Res. Inst. Interdisciplinary Sci., Okayama Univ.)	2pH08 Imaging of mineral element distribution in rice node with laser ablation ICP-MS Naoki Yamaji, Jian Feng Ma (Institute of Plant Science and Resources, Okayama University)	2pI08 Genome editing of SlIAA9 in commercial tomato cultivars by CRISPR/Cas9 Chihiro Abe, Risa Ueta, Ryosuke Hashimoto, Kohji Yamada, Yuriko Osakabe, Keishi Osakabe (Grad. Sch. bio., Univ. Tokushima)		15:15
2pG09 Proper FtsH turnover is important for the PSII repair cycle Yusuke Kato, Kiwamu Hyodo, Wataru Sakamoto (IPSR, Okayama Univ.)	2pH09 Relationship between growth-driven increase in K uptake and 133-Cs uptake in the rice shoots under different K fertilization levels Mari Murai-Hatano[1], Maya Matsunami[1,2], Junko Ishikawa[3], Kazuki Togami[1], Shigeto Fujimura[1], Akitoshi Goto[3], Motohiko Kondo[4], Toshihiro Hasegawa[1] ([1]NARO/TARC, [2]Iwate Univ., [3]NARO/NICS, [4]Nagoya Univ.)	2pI09 Efficient multiplex genome editing utilizing tRNA processing in tomato Ryosuke Hashimoto, Risa Ueta, Chihiro Abe, Yuriko Osakabe, Keishi Osakabe (Fac. Biosci. Bioindust., Tokushima Univ.)		15:30

E=Presentation in English

● Day 3, Fri., March 30, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D	Room E	Room F
	Symposium S08 Plant Chemical Biology (9:00–12:00)	Symposium S09 New Development of Ribosome and Translational Regulation Research in Plants (9:00–12:00)	Environmental responses/Abiotic stresses (Ion/Salt/Mineral/ Temprature/Others)	Organelles/Cytoskeletons	Plant-microbe interaction (Immunity/Others)	Vegetative growth
9:00			3aC01 Studies on the biosynthesis of GSH-like peptides in rice Shinichi Yamazaki, Kumiko Ochiai, Toru Matoh (Grad. Sch. Agr., Univ. Kyoto)	3aD01 Microtubule-dependent directional growth of rhizoids in the basal land plant *Marchantia polymorpha* Hiroyasu Motose[1], Kento Otani[1], Kimitsune Ishizaki[2], Shogo Takatani[1], Ryuichi Nishihama[3], Takayuki Kohchi[3], Taku Takahashi[1] ([1]Grad. Sch. Nat. Sci. & Tech., Okayama Univ., [2]Grad. Sch. Sci., Kobe Univ., [3]Grad. Sch. Biostudies, Kyoto Univ.)	3aE01 E Pathogen pressure and evolutionary trade-off in the regulation of plant stomatal aperture Akira Mine[1,2], Kaori Fukumoto[2], Ryohei Thomas Nakano[2,3], Kenichi Tsuda[2] ([1]R-GIRO, Ritsumeikan Uni, [2]MPIPZ, [3]CEPLAS)	3aF01 A cytochrome P450 epoxidase regulates embryonic patterning in *Arabidopsis thaliana* Kensuke Kawade[1,2,3,4], Yimeng Li[4], Yuji Sawada[4], Hirokazu Tsukaya[1,5], Masami Y. Hirai[4] ([1]OIIB, [2]NIBB, [3]SOKENDAI, [4]RIKEN CSRS, [5]Grad. School Science, Univ. Tokyo)
9:15			3aC02 Rice Glutaredoxins Regulate Iron Deficiency Responses In Concert With HRZ Ubiquitin Ligases Takanori Kobayashi, Naoko K. Nishizawa (Res. Inst. Biores. Biotech., Ishikawa Pref. Univ.)	3aD02 NE6 coordinates organ growth by the regulation of microtubule sensitivity to mechanical stress Shogo Takatani[1], Stephane Verger[2], Takashi Okamoto[1], Taku Takahashi[1], Olivier Hamant[2], Hiroyasu Motose[1] ([1]Grad. Nat. Sch. and Tech., Univ. Okayama, [2]Plant Reproduction and Development Laboratory, ENS Lyon)	3aE02 E *In planta* bacterial transcriptome unveils molecular basis of pathogen growth inhibition by plant innate immunity Tatsuya Nobori, Kenichi Tsuda (Max-Planck Institute for Plant Breeding Research)	3aF02 DROL1-dependent splicing is required to repress seed maturation genes after germination in *Arabidopsis* Takamasa Suzuki[1], Tsutae Kawai[1], Minoru Ueda[2,3], Motoaki Seki[2,3], Tetsuya Higashiyama[4], Kenzo Nakamura[1] ([1]Col. Biosci. Biotech., Chubu Univ., [2]RIKEN CSRS, [3]JST CREST, [4]ITbM, Nagoya Univ.)
9:30			3aC03 Functional analysis of *CoHT* contributing to continuous heat tolerance in *Arabidopsis thaliana* accessions Kazuho Isono[1], Keisuke Tanaka[2], Takashi Tsuchimatsu[3], Yoichi Sakata[1], Teruaki Taji[1] ([1]Dept. of Bioscience, Tokyo Univ. of Agriculture, [2]NODAI Genome Research Center, [3]Dept. of Biology, Chiba Univ)	3aD03 Plant-specific kinesin-14 drives nuclear transport and cytoskeletal crosslinking for tip growth in moss Moe Yamada, Gohta Goshima (Nagoya University)	3aE03 E Balancing trade-offs between biotic and abiotic stresses through leaf age-dependent variation in stress hormone crosstalk Matthias Berens[1], Akira Mine[1,2], Kenichi Tsuda[1] ([1]Max Planck Institute for Plant Breeding Research, [2]Ritsumeikan Univ)	3aF03 Regulatory Mechanism of Lateral Meristems Underlying Secondary Growth via Cytokinin Signaling in *Arabidopsis thaliana* Miyu Imamura[1], Yurina Shimada[1], Masaki Ito[1], Nobutaka Mitsuda[2], Yuki Kondo[3], Masaru Ohme-Takagi[2,4], Takafumi Yamashino[1] ([1]Grad. Sch. Bio. Sci., Nagoya Univ., [2]Bioprod. Res. Inst., Nat. Inst. of Adv. Ind. Sci. Tech., [3]Grad. Sch. Sci., Univ. Tokyo., [4]Inst. Env. Sci. Tech., Saitama Univ.)
9:45			3aC04 Distinct mechanism regulates the loci responsible for natural variation in heat tolerance on agar or soil assay in Arabidopsis thaliana Kotaro Nakamura[1], Hirotaka Ariga[1], Satoshi Iuchi[2], Masatomo Kobayashi[2], Yoichi Sakata[1], Teruaki Taji[1] ([1]Department of Bioscience, Tokyo University of Agriculture, [2]BRC, RIKEN)	3aD04 E Functional Analysis of KINESIN-13 in the moss *Physcomitrella patens* Shu Yao Leong, Moe Yamada, Gohta Goshima (Grad. Sch. Sci., Nagoya Univ.)	3aE04 E Identification of a novel *Xanthomonas oryzae* effector to suppress rice immune response Koji Yamaguchi[1], Kento Yamada[1], Motoki Iwai[1], Naoki Horiuchi[1], Satomi Yoshimura[1], Seiji Tsuge[2], Tsutomu Kawasaki[1] ([1]Dept. Adv. Biosci. Kindai Univ., [2]Grad. Sch Agriculture. Kyoto Pref. Univ.)	3aF04 Regulation of tracheary element differentiation in the root apical meristem Kyoko Ohashi-Ito, Kuninori Iwamoto, Hiroo Fukuda (Grad. Sch. Sci., The Univ. Tokyo)
10:00			3aC05 Exploration of genes responsible for natural variation in continuous heat tolerance of *Arabidopsis thaliana* Erina Sato[1], Hirotaka Ariga[1], Kotaro Nakamura[1], Barboza Luis[2], Keisuke Tanaka[3], Shunsuke Yajima[1], Yoichi Sakata[1], Teruaki Taji[1] ([1]Dept. of Bioscience, Tokyo Univ. of Agriculture, [2]Max-Planck Institute for Plant Breeding Research, [3]Nodai Genome research Center)	3aD05 CORTICAL MICROTUBULE DISORDERING1 (CORD1) regulates the cell-wall structure of xylem vessels Takema Sasaki[1], Hiroo Fukuda[2], Yoshihisa Oda[1,3] ([1]Cent.Front.Res.,NIG, [2]Grad.Sch. Sci.,Univ.Tokyo, [3]Dep. Genet.,SOKENDAI)	3aE05 PBI1-OsWRKY45-mediated transcriptional regulation in rice chitin signaling. Shusuke Shigeta[1], Kenichi Harada[2], Kento Inoue[1], Shunsuke Andou[1], Kota Ichimaru[1], Satomi Yoshimura[1], Koji Yamaguchi[1], Chojiro Kojima[3], Tsutomu Kawasaki[1] ([1]Dept. Adv. Biosci. Kindai Univ, [2]Instit. for Protein Res. Osaka Univ, [3]Grad. Sch Engineer. Yokohama Nat. Univ)	3aF05 E A regulatory mechanism triggering localized cell proliferation in Arabidopsis root vascular tissue Shunsuke Miyashima[1], Pawel Roszak[2], Koichi Toyokura[2,3], Motohiro Fujiwara[3], Tatsuo Kakimoto[3], Koichi Fujimoto[3], Keiji Nakajima[1], Yka Helariutta[2] ([1]Grad. Sch. Bio. Sci., NAIST, [2]The Sainsbury Laboratory, Cambridge University, [3]Grad. Sch. Sci., Univ. Osaka)

Room G	Room H	Room I	Room J	Time
Environmental response of photosynthesis or respiration	Systems biology	New technology/Bioresources/ Others	Secondary metabolism	
3aG01 LHCSR1-dependent fluorescence quenching is mediated by excitation transfer from LHCII to photosystem I in *Chlamydomonas reinhardtii* Kotaro Kosuge[1,2], Ryutaro Tokutsu[1,2], Kim Eunchul[1], Seiji Akimoto[3], Makio Yokono[4], Yoshifumi Ueno[3], Jun Minagawa[1,2] ([1]NIBB, [2]SOKENDAI, [3]Univ.Kobe, [4]Univ. Hokkaido)	3aH01 Ⓔ Integrative omics approach to elucidate camptothecin biosynthesis Amit Rai[1], Ryo Nakabayashi[2], Taiki Nakaya[1], Tetsuya Mori[2], Hideyuki Suzuki[3], Kazuki Saito[1,2], Mami Yamazaki[1] ([1]Chiba University, [2]RIKEN CSRS, [3]Kazusa DNA Research Institute)	3aI01 Genome editing in rice by direct delivery of CRISPR-Cas9 ribonucleoprotein complexes into zygotes Erika Toda[1,2], Narumi Koiso[2], Arika Takebayashi[1], Masako Ichikawa[3], Takatoshi Kiba[1], Yuriko Osakabe[1,4], Takashi Okamoto[1,2], Norio Kato[1,2,3] ([1]RInC, RIKEN, [2]Department of Biological Sciences, Tokyo Metropolitan Univ., [3]Plant Innovation Center, Japan Tobacco Inc., [4]Faculty of Bioscience and Bioindustry, Tokushima Univ.)	3aJ01 Direct injection of water soluble pigment-protein complexes and membranes to C18-HPLC Shinichi Takaichi[1], Akira Okoshi[2], Seiu Otomo[2], Masahiro Misumi[3], Kintake Sonoike[3] ([1]Fac. Life Sci., Tokyo Univ. Agri., [2]Fac. Sci., Ibaraki Univ., [3]Fac. Edu. Integ. Arts Sci., Waseda Univ.)	9:00
3aG02 Role of elongation factor Tu in the repair of PSII during acclimation to strong light in Synechocystis sp. PCC 6803 Haruhiko Jimbo[1], Taichi Izuhara[2], Yoshitaka Nishiyama[1,2] ([1]Grad. Sch. Sci. Eng., Saitama Univ., [2]Dept. Biochem. Mol. Biol., Saitama Univ.)	3aH02 Integration and standardization of environment, tomato cultivation and omics data for data analysis to achieve high-yield, and high-quality tomato production system with machine learning Yusuke Kakei[1], Kanako Yano[2], Hiroki Ueno[2], Mizuki Yamada[2], Hiroki Sano[3], Shinichiro Maejima[4], Takeshi Maeda[5], Kiyotaka Hiei[6], Yuya Ota[7], Hiroshi Nishimura[7], Masahide Isozaki[7], Takeshi Saito[2], Yasushi Kawasaki[2], Tadahisa Higashide[2], Katsumi Suzuki[8], Tomoko Niwa[9], Sumie Ishiguro[9], Takamasa Suzuki[10], Hirokazu Takahashi[9], Mikio Nakazono[9], Hitoshi Sakakibara[9,11], Yuji Sawada[11], Jun Matsuzaki[11], Masami Y. Hirai[11], Yukihisa Shimada[1], Shunsuke Imanishi[2] ([1]Yokohama City Univ. KIBR, [2]NIVFS, [3]Bull. Res. Inst. Agric. Okayama Pref. Tech. Cent. Agric, For Fish., [4]Shizuoka Pref. Res. Inst. Agri. For., [5]Gifu Pref. Agric. Tech. Ctr., [6]Aichi Agric. Res. Ctr., [7]Mie Pref. Agric. Res. Inst., [8]Grad. Sch. Agri., Shizuoka Univ., [9]Bio-agr., Nagoya Univ., [10]Grad. Sch. Biosci. Biotech., Chubu Univ., [11]RIKEN CSRS)	3aI02 Genome editing by engineered SpCas9 with NG-PAM in plants Masafumi Mikami[1,2], Masaki Endo[2], Akira Endo[2], Hidetaka Kaya[2], Takeshi Itoh[3], Hiroshi Nishimasu[4], Osamu Nureki[4], Seiichi Toki[1,2,5] ([1]Gra. Sch. Nanobiol., Yokohama City Univ., [2]NIAS, NARO, [3]NAAC, NARO, [4]Gra. Sch. Sci., Univ. Tokyo, [5]Kihara. Inst. Biol. Res., Yokohama City Univ.)	3aJ02 Ⓔ Intracellular location of β-carotene ketolase in Haematococcus pluvialis Hyunseok Lim[1], Samuel Koh[1], Hisashi Ito[4], Szilvia Nagy[2], Taichi Takasuka[2], Ayumi Tanaka[4], Yoshiki Nishimura[3], Ryouichi Tanaka[4] ([1]Grad. Life sci., Univ. Hokkaido, [2]Fac. of Agric., Univ. Hokkaido, [3]Dpt. of Botany. Grad. Sci., Univ. Kyoto, [4]Inst. Low Tept., Univ. Hokkaido)	9:15
3aG03 Roles of mitochondrial respiration in photosynthetic electron flow in illuminated leaves Shoya Yamada, Hiroshi Ozaki, Ko Noguchi (Sch. Life Sci, Tokyo Univ. Pharm. Life Sci.)	3aH03 Comparative transcriptome analysis in sulfur deficient soils using rice genetic resources Kyonoshin Maruyama[1], Yasuhiro Tsujimoto[1], Katsuhiko Kondo[1], Tetsuya Sakurai[2] ([1]JIRCAS, [2]Multidisciplinary Science Cluster, Kochi University)	3aI03 SKL system: in vivo evaluation based on fluorescence imaging for design of genome editing module Ryota Konno, Hiroyuki Tanaka, Yutaka Kodama (Ctr. Biosci. Res. & Edu., Utsunomiya. Univ)	3aJ03 Ⓔ A chimeric carotenogenic fusion enzyme shows improved efficiency through bypassing substrate sequestration Maurizio Camagna[1,2], Alexander Grundmann[1], Peter Beyer[1], Ralf Welsch[1] ([1]University of Freiburg, [2]Nagoya University)	9:30
3aG04 *pect1-4 aox1a-1* Double Mutants Grow Better Than *pect1-4* Single Mutants at Low Temperature Takuto Shimizu[1], Ko Noguchi[2], Ikuo Nishida[1] ([1]Graduate School of Science and Engineering, Saitama University, [2]School of Life Sciences, Tokyo University of Pharmacy and Life Sciences)	3aH04 Genomic dissection and prediction of transcriptome dynamics of rice under field conditions Atsushi J. Nagano[1], Makoto Kashima[1], Ayumi Deguchi[1], Ayumi Tezuka[1], Koji Iwayama[2], Hiroki Saito[3] ([1]Fac. Agr., Ryukoku Univ., [2]Cent. Data Sci., Shiga Univ., [3]Grad. Sch. Agr., Kyoto Univ.)	3aI04 Application of CRISPR/Cas9 system to green algae P.coccomyxa sp.KJ with an efficient and automated screening system Shunsuke Tonogai, Yuya Yoshimitsu, Akira Nukazuka (DENSOR Co. Ltd.Advanced reserch and innovation center,Advanced reserch Div4)	3aJ04 Establishment of plant platforms for enhanced production of isoprenoids by inducible overexpression of heterologous mevalonate pathway enzymes Koichiro Otake[1,2], Fumihiro Yanbe[1], Hitomi Tabei[1], Toshiyuki Waki[1], Hiroshi Masumoto[2], Daisuke Shibata[2], Toru Nakayama[1], Seiji Takahashi[1] ([1]Grad. Sch. Eng., Tohoku Univ., [2]Kazusa DNA Res. Inst.)	9:45
3aG05 Reduction-induced suppression of electron flow (RISE) is overridden by non-ATP-consuming electron flow in *Synechococcus elongatus* PCC 7942: P700 oxidation is induced by the reduction of plastoquinone Ginga Shimakawa, Keiichiro Shaku, Yoshinori Goto, Chikahiro Miyake (Kobe University)	3aH05 AtCAST4.0 Update: Gene set enrichment search of Arabidopsis transcriptome with frozen-RMA normalization. Yusuke Kakei, Yukihisa Shimada (YCU KIBR)	3aI05 A Study On Decrease Effect Of Leaf Damage Under Low Temperature Due Micro Electric Current Load Kyohei Yamashita[1], Akira Narumi[2], Tadashi Konishi[3] ([1]Grad. Sch., Kanagawa Institute of Technology, [2]kanagawa Institute of Technologysity, [3]Oita National College of Technology)	3aJ05 Comparative analysis of DOPA dioxygenases Hanako Watanabe[1], Yoko Yokoyama[2], Miho Suzuki[2], Natsumi Ishiduka[1], Masaaki Sakuta[1,2] ([1]Grad. Sch. Biol. Sci. Ochanomizu Univ., [2]Biol.Ochanomizu Univ.)	10:00

Ⓔ=Presentation in English

● Day 3, Fri., March 30, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D	Room E	Room F
	Symposium S08 Plant Chemical Biology (9:00–12:00)	Symposium S09 New Development of Ribosome and Translational Regulation Research in Plants (9:00–12:00)	Environmental responses/Abiotic stresses (Ion/Salt/Mineral/ Temprature/Others)	Organelles/Cytoskeletons	Plant-microbe interaction (Immunity/Others)	Vegetative growth
10:15			3aC06 HsfA1 improve heat tolerant of tomato plants by regulating heat-responsive gene expression Yuichi Saito[1], Ken Hoshikawa[2], Hiroshi Ezura[2], Keisuke Tanaka[3], Yoichi Sakata[1], Teruaki Taji[1] ([1]Dept. of Bioscience Tokyo Univ. of Agriculture, [2]Fac. Life Environ. sci., Univ. Tsukuba, [3]NODAI Genome Research Center)	3aD06 IQD13 couples the dynamics and plasma membrane association of microtubules to regulate secondary cell wall patterns Yuki Sugiyama[1,2], Hiroo Fukuda[1], Yoshihisa Oda[2,3] ([1]Grad. Sch. Sci., Univ. Tokyo, [2]Cent. Front. Res., NIG, [3]Dep. Genet., SOKENDAI)	3aE06 Mechanical stimulus-induced immunity is the forefront of plant immune system Mamoru Matsumura[1], Mika Nomoto[1], Tomotaka Itaya[1], Takamasa Suzuki[2], Hironaka Tsukagoshi[3,4], Shigeyuki Betsuyaku[5], Yasuomi Tada[1,6] ([1]Div. of Bio. Sci., Grad. Sch. of Sci., Nagoya Univ., [2]Col. of BioSci. and Biotech., Chubu Univ., [3]JST, PRESTO, [4]Fac. of Agri., Meijo Univ., [5]Grad. Sch. of Life and Environ. Sci., Univ. of Tsukuba, [6]Cent. for Gene Res., Nagoya Univ.)	3aF06 E Peripherally Localized Cell Proliferation Contributes Smooth Boundary Formation Along the Central Xylem Axis in Arabidopsis Root Vascular Tissue Motohiro Fujiwara[1], Shunsuke Miyashima[2], Keiji Nakajima[2], Koichi Fujimoto[1] ([1]Grad. Sch. Sci., Univ. Osaka, [2]Grad. Sch. Bio. Sci., NAIST)
						Membrane trafficking
10:30			3aC07 Molecular analysis of the temperature drop response in *Saintpaulia* leaves. Kana Motooka[1], Miwa Ohnishi[1], Kazuko Iida[2], Noriaki Kadohama[1], Yoshihiro Suzuki[3], Kimitsune Ishizaki[1], Hidehiro Fukaki[1], Hidetoshi Iida[2], Tetsuro Mimura[1] ([1]Grad. Sch. Sci., Kobe Univ., [2]Dept. Biol. Tokyo Gakugei Univ., [3]Fac. Sci. Kanagawa Univ.)	3aD07 Visualization of microtubule reorganization during cell division in *Closterium peracerosum-strigosum-littorale* complex Takashi Murata[1,2], Junko Kawai[3], Hiroyuki Sekimoto[3], Mitsuyasu Hasebe[1,2] ([1]Natl., Inst., Basic Biol., [2]Dept. Basic Biol., School Life Sci., SOKENDAI, [3]Dept. Chem. Biol. Sci., Fac. Sci., Japan Women's Univ.)	3aE07 The role of *Arabidopsis thaliana* ACTIN DEPOLYMERIZING FACTOR in pathogen response Noriko Inada[1], Masaaki Umeda[1,2] ([1]Grad. Sch.Biol.Sci., NAIST, [2]JST, CREST)	3aF07 E Mutation in GNOM, resulting in BFA resistance induces overexpression and alters subcellular localization of GNOM in Arabidopsis thaliana Mohammad Arif Ashraf[1], Abidur Rahman[1,2] ([1]United Graduate School of Agricultural Sciences, Iwate University, Morioka, 020-8550, Japan, [2]Departmen of Plant Bio Sciences, Faculty of Agriculture, Iwate University, Morioka, 020-8550, Japan)
10:45			3aC08 Ethanol treatment enhances heat stress tolerance in *Arabidopsis thaliana* Yuji Sunaoshi[1,2], Akihiro Matsui[2], Maho Tanaka[2], Kayoko Mizunashi[2], Motoaki Seki[2,3,4] ([1]Grad. Sch. Nano-Bio., Yokohama City Univ., [2]Plant Genomic Network RT, CSRS, RIKEN, [3]Kihara Inst., Yokohama City Univ., [4]CREST, JST)	3aD08 Plant response to the phosphate starvation under various nitrogen-controlled conditions Yushi Yoshitake, Hiroyuki Ohta, Mie Shimojima (School of Life Science and Technology, Tokyo Institute of Technology)	3aE08 E Modular traits of the root microbiota dictate host root growth and immune status Ryohei Thomas Nakano[1,2], Ruben Garrido-Oter[1,2,3], Nina Dombrowski[1], Ka-Wai Ma[1], Alice McHardy[3], Paul Schulze-Lefert[1,2] ([1]Max Planck Institute for Plant Breeding Research, [2]Cluster of Excellence on Plant Sciences (CEPLAS), [3]Heinrich Heine University Dusseldorf)	3aF08 SYP123 transports for the synthesis of secondary cell wall in root hair Tomoko Hirano, Masa H. Sato, Mina Yamamoto (Grad. Sch.Life. Environ Sci., Kyoto Prefectural Univ.)
11:00			3aC09 E Expression profile of small coding genes during cold acclimation and de-acclimation in plants Kentaro Nakaminami[1], Maho Tanaka[1], Satoshi Takahashi[1], Akihiro Matsui[1], Tomoyuki Takeda[2], You-wang Kim[2], Kousuke Hanada[1,2,3], Motoaki Seki[1,3,4] ([1]RIKEN CSRS, [2]Kyusyu Institute Technology, [3]CREST JST, [4]Kihara Inst. Biol. Res., Yokohama City Univ.)			3aF09 MAG3 mediates efficient protein transport at the ER-Golgi interface Junpei Takagi[1], Hideyuki Takahashi[2], Minoru Nagano[3], Yoichiro Fukao[4], Haruko Ueda[1], Kentaro Tamura[2], Tomoo Shimada[2], Ikuko Hara-Nishimura[1] ([1]Fac. of Sci. and Eng., Konan Univ., [2]Grad. Sch. of Sci., Kyoto Univ., [3]Grad. Sch. of Sci. and Eng., Saitama Univ., [4]Grad. Sch. of Life Sci., Ritsumeikan Univ.)
11:15			3aC10 Artificial reproduction of plant seasonal responses in the smart growth chambers Yuko Kurita[1], Hironori Takimoto[2], Mari Kamitani[1], Yoichi Hashida[1], Makoto Kashima[1], Ayumi Tezuka[1], Takanari Tanabata[3], Atsushi J. Nagano[1] ([1]Faculty of Agriculture, Ryukoku University, [2]Faculty of Computer Science and Systems Engineering, Okayama Prefectural University, [3]Kazusa DNA Research Institute)			3aF10 Functional analysis of RAB21 in Marchantia polymorpha Naoki Minamino[1,2], Takehiko Kanazawa[2,3], Ryuichi Nishihama[4], Takayuki Kohchi[4], Akihiko Nakano[1,5], Takashi Ueda[2,3] ([1]Grad. Sch. Sci., The Univ. Tokyo, [2]Div. Cellular Dynamics., NIBB, [3]Sch. Life Sci., SOKENDAI, [4]Grad. Sch. Bio., Kyoto. Univ, [5]Center for Advanced Photonics., RIKEN)
11:30			3aC11 The effect of nitrate signaling on heat stress response Yasuhito Sakuraba, Shuichi Yanagisawa (Biotechnology Research Center, The University of Tokyo)			3aF11 Sucrose starvation induces the degradation of trans-Golgi network localized proteins and prevent the secretion of pectin Yamato Oda[1], Satoru Asazuma[2], Hiroaki Nakasone[1], Abiodun Moses, O[2], Kiminori Toyooka[3], Ken Matsuoka[1,2,4,5] ([1]Grad. Sch. Bio., Kyushu Univ., [2]Fac. Agric., Kyushu Univ., [3]RIKEN CSRS, [4]Biotron Appl. Ctr., Kyushu Univ., [5]Reserch. Ctr., Kyushu Univ.)

Room G	Room H	Room I	Room J	Time
Environmental response of photosynthesis or respiration	Systems biology	New technology/Bioresources/ Others	Secondary metabolism	
3aG06 P700 oxidation is regulated by redox state of plastoquinone pool in the presence of proton gradient across thylakoid membranes during induction of photosynthesis of rice leaves Chikahiro Miyake[1], Daisuke Takagi[1], Yuji Suzuki[2], Amane Makino[2] ([1]Kobe University, [2]Tohoku University)	3aH06 MSEAp: Development of a metabolite set enrichment analysis toolkit for plant metabolomics community Atsushi Fukushima[1], Kozo Nishida[2] ([1]RIKEN CSRS, [2]RIKEN QBiC)	3aI06 Preparation of rabbit monoclonal antibody for high-sensitive detection system of Satsuma dwarf virus Shogo Miyoshi[1], Akira Nozawa[1], Tatsuhiko Ozawa[2], Shin-ichi Shimizu[3], Hiroyuki Takeda[1], Atsushi Muraguchi[2], Tatsuya Sawasaki[1] ([1]PROS, Ehime Univ., [2]Grad. Sch. Med. Pharm. Sci., Univ. Toyama, [3]Fruit Tree Res. Cent., Ehime Res. Ins. Agri. Forest. Fish.)	3aJ06 Oxidative rearrangement of (+)-sesamin by CYP92B14 co-generates twin dietary lignans in sesame Eiichiro Ono[1], Jun Murata[2], Seigo Yoroizuka[3], Hiromi Toyonaga[1], Akira Shiraishi[2], Shoko Mori[2], Masayuki Tera[2], Toshiaki Azuma[2], Atsushi J. Nagano[4], Masaru Nakayasu[5], Masaharu Mizutani[5], Tatsuya Wakasugi[3], Masayuki Yamamoto[3], Manabu Horikawa[2] ([1]Suntory Global Innovation Center (SIC) Ltd., [2]Suntory Fnd. Life Sci. (SUNBOR), [3]Grad. Sch. Sci. Eng., Univ. Toyama, [4]Grad. Sch. Agri., Univ. Ryukoku, [5]Grad. Sch. Agri., Univ. Kobe)	10:15
3aG07 The P700 oxidation system and the production of reactive oxygen species under water: why do aquatic plants want to live under water? Kanae Kadota, Ginga Shimakawa, Daisuke Takagi, Chikahiro Miyake (Grad. Sch. Agri., Kobe)	3aH07 Impact of Protein Subcellular Localization on Gene Coexpression Network Architecture in *Arabidopsis thaliana* Yuichi Aoki[1,2], Takeshi Obayashi[2], Kengo Kinoshita[1,2] ([1]ToMMo, Tohoku Univ., [2]Grad. Sch. Info. Sci., Tohoku Univ.)	3aI07 A Simplified and Efficient *Agrobacterium*-mediated Transformation Method for *Marchantia polymorpha* Gemmalings Shoko Tsuboyama-Tanaka[1,2], Satoko Nonaka[3], Hiroshi Ezura[3], Yutaka Kodama[1] ([1]Ctr. Biosci. Res. Edu., Utsunomiya Univ., [2]Grad. Sch. Agri. Sci., Tokyo Univ. Agri. Technol., [3]T-PIRC., Univ. Tsukuba)	3aJ07 The JRE4 transcription factor regulates steroidal glycoalkaloids for defense in tomato Tsubasa Shoji[1], Masaru Nakayasu[2], Naoki Shioya[3], Masahiko Shikata[4], Chonprakun Thagun[1], Ayman Abdelkareem[1], Yoshihiro Okabe[4], Tohru Ariizumi[4], Gen-ichiro Arimura[3], Masaharu Mizutani[2], Hiroshi Ezura[4], Takashi Hashimoto[1] ([1]Grad. Sch. Biol. Sci., NAIST, [2]Grad. Sch. Agri. Sci., Kobe Univ., [3]Grad. Sch. Indus. Sci. Tech., Tokyo Univ. Sci., [4]Grad. Sch. Life Envir. Sci., Univ. Tsukuba)	10:30
3aG08 Effects of antimycin A on cytochrome b559 within photosystem II Daisuke Takagi[1], Kentaro Ifuku[2], Taishi Nishimura[2], Chikahiro Miyake[1] ([1]Department of Biological and Environmental Science, Faculty of Agriculture, Graduate School of Agricultural Science, Kobe University, [2]Graduate School of Biostudies, Kyoto University)	3aH08 E A revised coexpression calculation procedure in ATTED-II version 9 with batch normalization and bagging methods Takeshi Obayashi[1], Yuichi Aoki[1,2], Kengo Kinoshita[1,2] ([1]Grad. Sch. Info. Sci, Tohoku Univ., [2]ToMMo, Tohoku Univ.)	3aI08 Calcium monitoring with a blue-light safe FRET pair in single plant cell Ken Yokawa, Yutaka Kodama (Ctr. Biosci. Res. & Edu., Utsunomiya Univ.)	3aJ08 Elucidation of neolignan biosynthetic pathway in Arabidopsis Keiko Yonekura-Sakakibara[1], Masaomi Yamamura[2], Fumio Matsuda[3], Eiichiro Ono[4], Tetsuya Mori[1], Ryo Nakabayashi[1], Satoko Sugawara[1], Makoto Suzuki[1], Toshiaki Umezawa[2], Kazuki Saito[1,5] ([1]CSRS, RIKEN, [2]RISH, Kyoto Univ., [3]Grad. Sch. Info. Sci. Tech., Osaka Univ., [4]Suntory Global Innov. Ctr. Ltd., [5]Grad. Sch. Pharm. Sci., Chiba Univ.)	10:45
3aG09 E Growth and carbohydrate metabolism of starch-producing cyanobacteria under salt stress Akinori Nagaki, Koji Noge, Eiji Suzuki (Fac. Bioresour. Sci., Akita Pref. Univ.)	3aH09 The *C. campestris* genome provides new insights into adaptation for the heterotrophic life style in parasitic plants Ryusuke Yokoyama[1], Takeshi Obayashi[2], Hideki Narukawa[1], Yuki Kaga[1], Moegi Kato[1], Takeshi Kuroha[1], Kazuhiko Nishitani[1] ([1]Grad. Sch. Life. Sci., Tohoku Univ., [2]Grad. Sch. Info. Sci., Tohoku Univ.)	3aI09 Peptide-mediated gene delivery systems mimic bacterial infection pathways to plant tissues Keiko Midorikawa[1], Yutaka Kodama[1,2], Keiji Numata[1] ([1]Wako Inst., RIKEN, [2]BioSci., Utsunomiya Univ.)	3aJ09 Identification of a novel isoflavone O-methyltransferase by co-expression analysis in fungus-inoculated soybean seedlings Kai Uchida[1], Yuji Sawada[1], Kouji Ochiai[2], Mami Okamoto[1], Muneo Sato[1], Yutaka Yamada[1], Masami Y. Hirai[1] ([1]RIKEN CSRS, [2]Daiz Energy Co., Ltd.)	11:00
3aG10 The effect of light quality and iron concentration on the cyanobacterial chromatic acclimation controlling phycoerythrocyanin. Yuu Hirose[1], Chinatsu Yonekawa[1], Mai Watanabe[2], Masahiko Ikeuchi[2], Toshihiko Eki[1] ([1]Toyohashi Univ. of Tech, Dep. Env. and Life Sci., [2]The Univ. of Tokyo, Grad. Sch. of Arts and Sci.)	3aH10 MagicSuite: a one-click toolkit for next-generation sequencing using NCBI Magic-BLAST Naohiro Kimura, Yoshiyuki Ogata (Grad. Sch. Bio., Univ. Hyogo)	3aI10 Toward establishment of transplastomic Arabidopsis using a fusion peptide Takeshi Yoshizumi, Keiji Numata (RIKEN CSRS)	3aJ10 Next-generation integrated metabolomics for asparaptine biosynthetic pathway in Asparagus officinalis Ryo Nakabayashi[1], Amit Rai[2], Tetsuya Mori[1], Tomoko Nishizawa[1], Kei Hashimoto[1], Takashi Asano[3], Hiroshi Sudo[4], Kiminori Toyooka[1], Hideyuki Suzuki[5], Kazuki Saito[1,2] ([1]RIKEN CSRS, [2]Chiba Univ., [3]Iwate Medical Univ., [4]Hoshi Univ., [5]Kazusa DNA Res. Inst.)	11:15
	3aH11 Network analysis of homologous genes in plant Yoshiyuki Ogata (Grad. Sch. Life Environ. Sci., Osaka Pref. Univ.)	3aI11 Behavior of plant chromosomes and plant genes in plant/human hybrid cells Naoki Wada[1], Yasuhiro Kazuki[2,3], Kanako Kazuki[3], Toshiaki Inoue[3], Keishi Osakabe[1], Kiichi Fukui[4], Mitsuo Oshimura[2,3] ([1]Grad.Sch. Tech.Ind.Soc.Sci., Univ. Tokushima, [2]Grad. Sch. Med. Sci.,Univ.Tottori, [3]Chr. Eng. Res. Center., Univ. Tottori, [4]Grad. Sch. Phama.Sci., Osaka University)	3aJ11 Identification of New Metabolites Produced in *Arabidopsis thaliana* Expressing an Alkaloid Biosynthetic Gene Yohei Shimizu[1], Masaru Sato[2], Hideyuki Suzuki[2], Kazuki Saito[1], Mami Yamazaki[1] ([1]Grad. Sch. Pharm. Sci., Chiba, Univ., [2]Kazusa DNA Res. Inst.)	11:30

E=Presentation in English

● Day 3, Fri., March 30, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D	Room E	Room F
11:45	Symposium S08 Plant Chemical Biology (9:00–12:00)	Symposium S09 New Development of Ribosome and Translational Regulation Research in Plants (9:00–12:00)	Environmental responses/Abiotic stresses (Ion/Salt/Mineral/ Temprature/Others) 3aC12 Stability Regulation of the Stress-Responsive Transcription Factor DREB2A via Conditional Phosphorylation in *Arabidopsis* Junya Mizoi[1], Natsumi Kanazawa[1], Feng Qin[2], Satoshi Kidokoro[1], Fuminori Takahashi[3], Kazuo Shinozaki[3], Kazuko Yamaguchi-Shinozaki[1] ([1]Grad. Sch. Agr. Life Sci., Univ. Tokyo, [2]Biol. Resources Post-harvest Div., JIRCAS, [3]Center for Sustainable Resource Science, RIKEN)			Membrane trafficking 3aF12 Mitochondrial autophagy is important for the alleviation of Ni toxicity in tobacco cells Akihiro Saito, Moe Yamaguchi, Minori Tomono, Eitaro Miwa, Takuji Ohyama, Kyoko Higuchi (Fac. Appl. Biosci., Tokyo Univ. Agric.)

Room G	Room H	Room I	Room J	Time
	Systems biology	New technology/Bioresources/ Others		
	3aH12 Software for designing multiple highly specific CRISPR/Cas guide RNAs to induce large deletion in *Arabidopsis* genome Kotaro Ishino[1], Masato Tai[1], Yoichiro Fukao[1], Shigeo Sugano S.[2,3] ([1]Dept. Bioinfo., Ritsumeikan Univ., [2]R-GIRO, Ritsumeikan Univ., [3]JST, PRESTO)	3aI12 Ⓔ Re-sequencing of wild accessions of *Lotus japonicus* and genome-wide association analysis of winter hardiness under field conditions. Yasuko Kawamura[1], Yuki Kikuchi[1], Shohei Kusakabe[1], Shougo Nitanda[1], Yusdar Mustamin[1], Ming-Zhuo Wang[1], Tomomi Wakabayashi[2], Hideki Hirakawa[3], Niraj Shah[4], Vikas Gupta[4], Stig Andersen[4], Shusei Sato[1,3] ([1]Grad. Sch. Lifesci., Tohoku Univ., [2]Grad. Sch. Human and Environ. Studies, Kyoto Univ., [3]Kazusa DNA Res. Inst., [4]Dept. Mol. Biol. Genet., Aarhus Univ.)		11:45

Ⓔ=Presentation in English