General Presentations

Program of Oral Presentations

- Each presentation is allotted a 15-min slot, a talk for 12 min and discussion for 2 min 30 s, followed by a 30 s interval before the next speaker. To keep the session on schedule, please strictly follow the time limits.

- Your connection to the Zoom webinar will be tested in advance. We will contact you with the details such as the date, time and method.

- The presenter will participate in the webinar as a panelist. When your turn comes, please show your slides by sharing the screen and turn on the microphone and video in the Zoom webinar.

- Please select a set of oral presentations for which a chairperson will be responsible by consulting with the other chairpersons of the assigned session beforehand.

- Please enter the webinar via the special link for a panelist, which will be provided by the Organizing Committee in advance.

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

● Day 1, Tue., March 22, AM (9:30–12:15)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Plant-organism interaction B	Membrane trafficking	Primary metabolism
09:30	1aA01 Molecular function of the PIFI protein involved in redox regulation of photosynthesis Minami Murai[1], Keisuke Yoshida[2], Yufen Che[3], Noriko Ishikawa[4], Toru Hisabori[2], Kentaro Ifuku[1,4] ([1]Fac. Agri., Kyoto Univ., [2]Lab. Chem. Life Sci., Tokyo Tech., [3]Grad. Sch. Biostudies, Kyoto Univ., [4]Grad. Sch. Agri., Kyoto Univ.)	1aB01 Elucidation of the switching mechanism of chitin-triggered immunity and AM symbiosis in rice Kana Miyata, Moe Hosotani, Taisei Sugiyama, Yuto Takahashi, Hanae Kaku (Dept. Life Sciences, Sch. Agriculture, Meiji Univ.)	1aC01 A possible cargo receptor complex consists of KNS3 and its two homologs is required for ER exit of boric acid channels in Arabidopsis Zhe Zhang[1], Arisa Yamasaki[1], Shunsuke Nakamura[2], Shunsuke Takemura[3], Sumie Ishiguro[3], Junpei Takano[1] ([1]Grad. Sch. Life Env., Osaka Prefecture. Univ., [2]Grad. Sch. Agr., Hokkaido Univ., [3]Grad. Sch. Agr., Nagoya Univ.)	1aD01 E Important roles of PGDH-mediated serine synthesis in thallus growth, male gametogenesis and metabolism in *Marchantia polymorpha* Mengyao Wang[1,2], Hiromitsu Tabeta[1,3,5], Kinuka Ohtaka[1,2,6], Ayuko Kuwahara[1], Kiminori Toyooka[1], Mayuko Sato[1], Mayumi Wakazaki[1], Hiromichi Akashi[1], Takayuki Kohchi[4], Ryuichi Nishihama[4,8], Keisuke Yoshida[7], Ali Ferjani[5], Masami Yokota Hirai[1,2] ([1]RIKEN Center for Sustainable Resource Science, [2]Graduate School of Bioagricultural Sciences, Nagoya University, [3]Department of Life Sciences, Graduate School of Arts and Sciences, The University of Tokyo, [4]Graduate School of Biostudies, Kyoto University, [5]Department of Biology, Tokyo Gakugei University, [6]Department of Chemical and Biological Sciences, Faculty of Science, Japan Women's University, [7]Laboratory for Chemistry and Life Science, Institute of Innovative Research, Tokyo Institute of Technology, [8]Department of Applied Biological Science, Faculty of Science and Technology, Tokyo University of Science)
09:45	1aA02 Enhancement of Oxygen-Evolving Activity of Photosystem II by a Mutation in the Loop 4 Region of PsbP Ko Imaizumi[1], Taishi Nishimura[1], Ryo Nagao[2,3], Keisuke Saito[4,5], Takeshi Nakano[1], Hiroshi Ishikita[4,5], Takumi Noguchi[2], Kentaro Ifuku[6] ([1]Grad. Sch. Biostudies, Kyoto Univ., [2]Grad. Sch. Sci., Nagoya Univ., [3]RIIS, Okayama Univ., [4]RCAST, Univ. Tokyo, [5]Dept. Appl. Chem., Univ. Tokyo, [6]Grad. Sch. Agri., Kyoto Univ.)	1aB02 E Identification of a prehaustoria suppressor in the root parasitic plant *Phtheirospermum japonicum* Lei Xiang, Songkui Cui, Satoko Yoshida (Plant Sym., Div. Bio. Sci., NAIST)	1aC02 Analysis of PICALM members in Arabidopsis pollen Kazuo Ebine[1,2], Masaru Fujimoto[3], Keita Muro[4], Hidenori Takeuchi[5,6], Tetsuya Higashiyama[5,7], Takashi Ueda[1,2] ([1]Div. Cellular Dynamics, NIBB, [2]Sch. Life Sci., SOKENDAI, [3]Grad. Sch. Agri. and Life Sci., The Univ. Tokyo, [4]Grad. Sch. Life and Enviromental Sci., The Univ. Tokyo, [5]ITBM, Nagoya Univ., [6]Inst. Adv. Res., Nagoya Univ., [7]Grad. Sch. Sci., The Univ. Tokyo)	1aD02 E Involvement of Chloroplastic Sec14-like Protein in the Regulation of Phosphorus Acquisition and Use Mailun Yang[1], Yasuhito Sakuraba[1], Toshiki Ishikawa[2], Namie Ohtsuki[1], Maki Kawai-Yamada[2], Shuichi Yanagisawa[1] ([1]Grad. Sch. Agr. Life Sci., Univ. Tokyo, [2]Grad. Sch. Sci. Eng., Saitama Univ.)
10:00	1aA03 Modification of the Clear-Native PAGE system for improved stability of photosynsetic protein supercomplexes during electrophoresis Shinsa Kameo, Renon Matsumae, Ryouichi Tanaka, Atsushi Takabayashi (ILTS, Hokkaido Univ.)	1aB03 Identification of the secondary cell wall-inducing effectors from a gall-inducing aphid, *Schlechtendalia chinensis.* Takumi Nakayama[1], Issei Ohshima[1], Seisuke Kimura[2], Takakazu Matsuura[3], Yoko Ikeda[3], Seiji Takeda[1], Tomoko Hirano[1], Masa H. Sato[1] ([1]Graduate School of Life and Environmental Sciences, Kyoto Prefectural University, [2]Faculty of Integrated Life Sciences, Kyoto Industry University, [3]Institute of Plant Science and Resources, Okayama University)	1aC03 Analysis of RABH1 GTPase in *Arabidopsis thaliana* Chihiro Ohori[1], Yoko Ito[2], Emi Ito[2], Akihiko Nakano[3], Takashi Ueda[4,5], Tomohiro Uemura[1] ([1]Graduate School of Humanities and Sciences, Ochanomizu Univ, [2]Institute for Human Life Innovation, Ochanomizu Univ, [3]Live Cell Super-Resolution Imaging Research Team, RIKEN Center for Advanced Photonics, [4]Division of Cellular Dynamics, National Institute for Basic Biology, [5]The Department of Basic Biology, SOKENDAI)	1aD03 SNARE protein SYP61 and ubiquitin ligase ATL31 cooperatively regulate carbon/nitrogen-nutrient responses in Arabidopsis Yoko Hasegawa[1], Thais Huarancca Reyes[1,2], Tomohiro Uemura[3], Anirban Baral[4], Yongming Luo[1], Shugo Maekawa[1,5], Shigetaka Yasuda[1,6], Yoichiro Fukao[7], Akihiko Nakano[8], Junpei Takagi[1], Rishikesh P. Bhalerao[4], Junji Yamaguchi[1], Takeo Sato[1] ([1]Fac. Sci. and Grad. Sch. Life Sci., Hokkaido Univ., [2]Dept. Agri., Food and Environment, Univ. Pisa, [3]Grad. Sch. Humanities and Sciences, Ochanomizu Univ., [4]Forest Genetics and Plant Physiol., Swedish University of Agricultural Sciences, [5]Dept. Life Sci., Col. Sci. Rikkyo Univ., [6]Grad. Sch. Sci. Tech., NAIST, [7]Grad. Sch. Life Sci., Ritsumeikan Univ., [8]Live Cell Super-Resolution Imaging Research Team, RIKEN Center for Advanced Photonics)
10:15	1aA04 Lack of PGR5 suppresses the growth defects of *ntrc* mutant by changing electron distribution from ferredoxin Yuki Okegawa[1], Ken Motohashi[2], Wataru Sakamoto[1] ([1]Inst. Plant Sci. Univ. Okayama, [2]Fac. Life. Sci., Univ. Kyoto Sangyo)	1aB04 The gall-inducing CAP peptide is produced by the insect Cysteine Protease Megumi Matsuzawa[1], Tomoko Hirano[1], Issei Ohshima[1], Seisuke Kimura[2], Naohiro Tomari[3], Masa H. Sato[1] ([1]Grad. Sch. Life Environ. Sci., Kyoto Pref. Univ., [2]Grad. Sch. Life Sci., Kyoto Sangyo Univ., [3]Kyoto Municipal Industrial Research Institute)	1aC04 E Secreted AGP from Salt-Adapted Tobacco BY-2 Cells is GPI-Anchored and Associated with Lipophilic Moieties Arinze Boniface Nweke[1], Daiki Nagasato[1], Ken Matsuoka[1,2] ([1]Department of Bioscience and Biotechnology, Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University, [2]Department of Bioscience and Biotechnology, Faculty of Agriculture, Kyushu University)	1aD04 Analysis of physiological effects of Entner-Doudoroff pathway in cyanobacteria Tatsumi Imada, Yoshihiro Toya, Hiroshi Shimizu (Grad. Info. Sci. Tech., Univ. Osaka)

Room E	Room F	Room G	Room H	Room Y	Room Z	Time
Reproductive growth	Photoreceptors/ Photoresponses	Environmental responses B	Transcriptional, post-transcriptional or translational, post-translational regulations			
1aE01 A novel extracellular structure of egg cell regulates the process of double fertilization Daichi Susaki[1], Takao Oi[2], Hidenori Takeuchi[3,4], Shiori Nagahara[3], Sakiko Enomoto[5], Shigeo Arai[5], Tetsu Kinoshita[1], Daisuke Maruyama[1] ([1]KIBR, Yokohama City Univ., [2]Grad. Sch. of Bioagri. Sci., Nagoya Univ., [3]WPI-ITbM, Nagoya Univ., [4]Inst. for Adv. Res., Nagoya Univ., [5]IMaSS, Nagoya Univ.)	1aF01 Ⓔ Functional Characterization of Tomato *Phytochromes A* and *B1B2* Mutants in Response to Heat Stress Islam Abdellatif[1], Shaoze Yuan[1], Renhu Na[1], Shizue Yoshihara[2], Haruyasu Hamada[3], Takuya Suzaki[1,4], Hiroshi Ezura[1,4], Kenji Miura[1,4] ([1]Grad. Sch. Life and Environmenatl Sci., Univ. Tsukuba, [2]Depart. Biol Sci., Univ. Osaka Prefecture, [3]Pharma and Supplemental Nutrition Solutions Vehicle, Kaneka Corporation, [4]Tsukuba-Plant Innovation Research Center, Univ. Tsukuba)	1aG01 Characterization and visualization of isoform selectivity of histone deacetylase inhibitors against HDACs in Arabidopsis Minoru Ueda[1,2], Norio Kudo[3], Akihiro Matsui[1,2], Akiko Nakata[4], Maho Tanaka[1,2], Satoshi Takahashi[1,2], Junko Ishida[1,2], Taku Sasaki[1,5], Minoru Yoshida[3,4,6], Motoaki Seki[1,2,7] ([1]Plant Genomic Network Research Team, RIKEN CSRS, [2]Plant Epigenome Regulation Lab., RIKEN CPR, [3]Chemical Genomics Research Group, RIKEN CSRS, [4]Drug Discovery Seed Compounds Exploratory Unit, RIKEN CSRS, [5]Grad. Sch. Sci., Univ. Tokyo, [6]Grad. Sch. Agr. Life Sci., Univ. Tokyo, [7]KIBR, Yokohama City Univ.)	1aH01 Analysis of splicing of AT–AC-type introns in *Arabidopsis* Takamasa Suzuki, Tomoko Niwa, Gaiki Ono, Shogo Sasaki, Yoshiaki Shiotani (Col. Biosci. Biotech., Chubu Univ.)	Symposium S01 Improvement of genomics and technologies upgrades the value of bioresources (9:30–12:22)	Symposium S02 Plant resilience mechanism for irregular environmental fluctuations over time (9:30–12:30)	09:30
1aE02 Functional analysis of pistil SPRI1 protein involved in the heterospecific pollen rejection in Brassicaceae Yoshinobu Kato[1,2], Shota Ishida[1,3], Yuka Kimura[1], Shun Tadokoro[1], Seiji Takayama[1], Sota Fujii[1,4] ([1]Grad Sch Agric Lif Sci, The University of Tokyo, [2]JST PRESTO, [3]Institute of Livestock and Grassland Scienc, [4]Suntory SunRiSE)	1aF02 Analysis of the green/red photoconversion mechanism of the photosensor RcaE controlling complementary chromatic acclimation Takanari Kamo, Toshihiko Eki, Yuu Hirose (Toyohashi Univ. of Tech.)	1aG02 Functional Analysis of *Acquired Osmotolerant 19 (aot19)* Mutant of *Arabidopsis* Kento Mori[1], Masashi Tamura[1], Keisuke Tanaka[2], Izumi Yotsui[1], Yoichi Sakata[1], Teruaki Taji[1] ([1]Dept. Bioscience, Tokyo Univ. of Agriculture, [2]NODAI Genome Research Center)	1aH02 Identification of *Chlamydomonas* miRNA target genes by HITS-CLIP Tomohito Yamasaki[1], Hiroki Takahashi[2] ([1]Sci. and Tech., Kochi Univ., [2]MMRC, Chiba Univ.)			09:45
1aE03 Cuticles work as an interspecies reproductive barrier in Brassicaceae Yoshinobu Kato[1,2], Yuka Kimura[1], Seiji Takayama[1], Sota Fujii[1,3] ([1]Grad. Sch. Agric. Life Sci., Univ. Tokyo, [2]JST-PRESTO, [3]Suntory-SunRiSE)	1aF03 Regulation of ethylene production by phytochrome under the shade Toshiaki Kozuka[1], Shougo Sakamoto[1], Tomoyo Fukuda[1], Hiroshi Yamatani[2], Makoto Kusaba[1] ([1]Grad. Sch. Integr. Sci., Hiroshima Univ., [2]Inst. Crop Sci., NARO)	1aG03 Genetic analyses of *acquired osmotolerance-defective 10 (aod10)* mutant isolated from an osmotolerant *Arabidopsis thaliana* accession Yako Takahashi[1], Hirotaka Ariga[2], Keisuke Tanaka[3], Izumi Yotsui[1], Yoichi Sakata[1], Teruaki Taji[1] ([1]Dept. of Bioscience, Tokyo Univ. of Agriculture, [2]Div. of plant Sci., NARO, [3]NODAI Genome center)	1aH03 Acceleration of leaf senescence in the mutants of Arabidopsis deadenylases, AtCCR4a/b Taku Tokunaka[1], Yuya Suzuki[1], Yukako Chiba[1,2] ([1]Grad. Sch. Life Sci., Hokkaido Univ., [2]Fac. Sci. Hokkaido Univ.)			10:00
1aE04 Ⓔ Meiosis specific glucan synthase regulates proper timing of meiosis initiation and progression in rice anthers Harsha Somashekar[1,2], Manaki Mimura[1], Katsutoshi Tsuda[1,2], Ken-Ichi Nonomura[1,2] ([1]Plant Cytogenetics Laboratory, Department of Gene Function and, Phenomics, National Institute of Genetics, Mishima, Shizuoka 411-8540, Japan, [2]Department of Genetics, School of Life Science, The Graduate University of Advanced Studies (SOKENDAI), Mishima, Shizuoka 411-8540, Japan)	1aF04 Suppression of the shade avoidance response by the N-PAS domain of phyA Kanako Shinohara, Nobuyoshi Mochizuki, Tomomi Suzuki, Akira Nagatani (Grad. Sch. Sci., Univ. Kyoto)	1aG04 *CATION CALCIUM EXCHANGER4* promotes osmotolerance in *Arabidopsis thaliana* Kazuki Kanamori[1], Kohji Nishimura[2], Hirotaka Ariga[3], Masa H. Sato[4], Keisuke Tanaka[5], Izumi Yotsui[1], Yoichi Sakata[1], Teruaki Taji[1] ([1]Dept. of Bioscience, Tokyo Univ. of Agriculture, [2]Dept. of Life Science, Shimane Univ., [3]Div. of plant Sci., NARO, [4]Dept. of Life and Environmental Science, Kyoto Prefectural Univ., [5]NODAI Genome center)	1aH04 *AtCFI 25* is essential for proper 3'UTR length determination of mRNA Xiaojuan Zhang[1], Mika Nomoto[2,3], Marta Garcia-León[4], Naoki Takahashi[5], Mariko Kato[1], Kei Yura[6,7,8], Masaaki Umeda[5], Vicente Rubio[4], Yasuomi Tada[2,3], Tsuyoshi Furumoto[9], Takashi Aoyama[1], Tomohiko Tsuge[1] ([1]ICR, Kyoto Univ., [2]Cen. Gene Res., Nagoya Univ., [3]Grad. Sch. Sci., Nagoya Univ., [4]Centro Nacional de Biotecnología, CSIC, [5]Grad. Sch. Sci. Tech., NAIST, [6]Sch. Adv. Sci. Eng., Waseda Univ., [7]Grad. Sch. Hum. Sci., Ochanomizu Univ., [8]Cen. Inter. AI Data Sci., Ochanomizu Univ., [9]Grad. Sch. Agr., Ryukoku Univ.)			10:15

Ⓔ=Presentation in English

● Day 1, Tue., March 22, AM (9:30–12:15)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Plant-organism interaction B	Membrane trafficking	Primary metabolism
10:30	1aA05 P700 Oxidation Prevents the Electron Accumulation at the Acceptor Side of Photosystem I to Suppress the ROS Production Riu Furutani[1,2], Shinya Wada[1,2], Chikahiro Miyake[1,2] ([1]Grad. Sch. Agri., Kobe Univ., [2]JST CREST)	1aB05 Nutrition- and symbiosis regulator-dependent dynamics of root-associated microbiomes in rice Asahi Adachi[1], Sumire Kirita[1], Masako Fuji[1], Yuniar Devi Utami[1], Shunsuke Imai[1], Takumi Murakami[2], Yuichi Hongoh[3], Shigehiko Kanaya[1], Yusuke Saijo[1] ([1]Grad. Sch. Sci. Tech., NAIST, [2]NIG, [3]Sch. Life Sci. Tech., Tokyo Tech.)	1aC05 Secretory activity is required for normal formation of the oil body in *Marchantia polymorpha* Takehiko Kanazawa[1,2], Takashi Ueda[1,2] ([1]Div. Cellular Dynamics, NIBB, [2]SOKENDAI)	1aD05 Analysis of Photosynthesis-dependent Nitrate Uptake via Activation of Plasma Membrane H^+-ATPase in Arabidopsis Leaves Satoru Kinoshita[1], Takamasa Suzuki[2], Takatoshi Kiba[3], Hitoshi Sakakibara[3], Toshinori Kinoshita[1,4] ([1]Grad. Sch. of Science, Nagoya Univ., [2]College of Bioscience and Biotechnology, Chubu Univ., [3]Grad. Sch. of Bioagricultural Sciences, Nagoya Univ., [4]WPI-ITbM, Nagoya Univ.)
10:45	1aA06 Analysis of P700 Oxidation Regulation in Arabidopsis *glu1/gln2* Mutants Shinya Wada[1], Takanori Maruta[2], Chikahiro Miyake[1] ([1]Grad. Sch. Agri. Sci., Kobe-Univ., [2]Fac. Life Environ. Sci., Shimane Univ.)	1aB06 Growth and metabolome analyses of shoots in *Lotus japonicus* overnodulation mutants Kensuke Kawade[1,2,3], Daisuke Sugiura[4], Akira Oikawa[3,5], Masayoshi Kawaguchi[1,2] ([1]NIBB, [2]Sch. Life Sci., SOKENDAI, [3]RIKEN CSRS, [4]Grad. Sch. Bioagr. Sci., Nagoya Univ., [5]Grad. Sch. Agr., Kyoto Univ.)	1aC06 SYP123-VAMP727 is involved in the secretion of the inner cell wall components to the root hair shank in Arabidopsis Masa H. Sato[1], Kazuo Ebine[2], Takashi Ueda[2], Takumi Higaki[3], Hiroki Konno[4], Takahiro Nakayama[4], Tomoko Hirao[1] ([1]Grad. Sch. Life and Environ, Kyoto Pref. Uni., [2]Div. Cell Dynamics, NIBB, [3]Grad. Sch. of Sci. Tech. Kumamoto Uni., [4]Nano Life Sci. Insti., Kanazawa Uni.)	1aD06 Coexpression of Multiple Isoforms of Starch Synthase and Branching Enzyme of Rice in *Synechococcus* PCC 7942 Eiji Suzuki, Hitoshi Yoshimura, Yuto Ishii, Ryuichiro Suzuki (Faculty of Bioresour Sci, Akita Pref Univ)
11:00	1aA07 [Cancelled]	1aB07 Optimization of rhizobial infection regulated by phosphatidylinositol transport protein Akira Akamatsu, Naoya Takeda (Biological and Environmental Sciences., Kwansei Gakuin University)	1aC07 Ⓔ Deubiquitinating enzymes limit the degradation of brassinosteroid receptor BRI1 in *Arabidopsis* Yongming Luo[1], Junpei Takagi[2], Lucas A.N. Claus[3,4], Chao Zhang[5], Shigetaka Yasuda[1], Yoko Hasegawa[1], Junji Yamaguchi[2], Libo Shan[6], Eugenia Russinova[3,4], Takeo Sato[2] ([1]Grad. Sch. Sci., Hokkaido Univ., [2]Fac. Sci., Hokkaido Univ., [3]Department of Plant Biotechnology and Bioinformatics, Ghent Univ., Belgium, [4]Center for Plant Systems Biology, VIB, Belgium, [5]Department of Plant Pathology & Microbiology, Texas A&M Univ., USA, [6]Department of Biochemistry & Biophysics, Texas A&M Univ., USA)	1aD07 A quantitative characterization of metabolic dynamics during photosynthesis start in cyanobacteria Kenya Tanaka[1,2], Mami Matsuda[3], Tomokazu Shirai[4], Tomohisa Hasunuma[1,3] ([1]EGBRC, Kobe Univ., [2]Grad. Sch. Eng. Sci. RCSEC, Osaka Univ., [3]Grad. Sch. Sci. Technol. Innov., Kobe Univ., [4]CSRS, Riken)
11:15	1aA08 Ⓔ Does the CrPTOX2-dependent safety valve complement the defects in cyclic electron transport in Arabidopsis? Qi Zhou[1], Caijuan Wang[2], Hiroshi Yamamoto[1], Toshiharu Shikanai[1] ([1]Department of Botany, Graduate School of Science, Kyoto University, [2]Guangdong Key Lab of Biotechnology for Plant Development, School of life Sciences, South China Normal University)			1aD08 The function of high-affinity urea transporters in nitrogen-deficient conditions Soichi Kojima[1], Marcel Pascal Beier[1,2] ([1]Grad. Sch. Agr., Tohoku Univ., [2]Fac. Sci., Hokkaido Univ.)
11:30	1aA09 Reversible Dissociation of FMO Proteins on the Photosynthetic Reaction Center of Green Sulfur Bacteria Tomomi Inagaki, Kazuki Terauchi, Chihiro Azai (Grad. Sch. Life Sci., Univ. Ritsumeikan)			1aD09 A vacuolar glutamine efflux transporter in rice Toshihiko Hayakawa[1], Saori Ogasawara[1], Masataka Ezaki[1], Kuni Sueyoshi[2], Shunya Saito[3], Toru Kudo[4], Soichi Kojima[1], Nobuyuki Uozumi[3] ([1]Grad. Sch. Agri. Sci., Tohoku Univ., [2]Fac. Agri., Niigata Univ., [3]Grad. Sch. Eng., Tohoku Univ., [4]Ac-Planta Inc.)

Room E	Room F	Room G	Room H	Room Y	Room Z	Time
Reproductive growth	Photoreceptors/ Photoresponses	Environmental responses B	Transcriptional, post-transcriptional or translational, post-translational regulations			
1aE05 Arabidopsis pollen tube has the directional growth capability even when the nuclei are eliminated from the apex Kazuki Motomura[1,2,3], Naoya Sugi[4], Ayumi Matsumoto[1], Hidenori Takeuchi[3,5], Michitaka Notaguchi[3,6], Tetsuya Higashiyama[3,7,8], Tetsu Kinoshita[4], Shohei Yamaoka[9], Atsushi Takeda[10], Daisuke Maruyama[4] ([1]Res. Org. Sci. and Tech., Ritsumeikan Univ., [2]JST PRESTO, [3]WPI-ITbM, Nagoya Univ., [4]Kihara Inst. Biol. Res., Yokohama City Univ., [5]Inst. Adv. Res., Nagoya Univ., [6]Biosci. and Biotech. Ctr., Nagoya Univ., [7]Div. of Biol. Sci., Grad. Sch. Sci., Nagoya Univ., [8]Dept. of Biol. Sci., Grad. Sch. Sci., The Univ. Tokyo, [9]Grad. Sch. Biostudies, Kyoto Univ., [10]Col. of Life Sci., Ritsumeikan Univ.)	1aF05 The analysis of blue light responses and phototropins in *Zostera marina* Naoya Miura, Hajime Shiota (Grad. Sch. Nanobioscience., Yokohama City Univ.)	1aG05 Effect of lack of potassium and sodium transporter *HKT2;1* on cesium absorption and transport in rice Satomi Kanno[1,5,6], Shigeto Fujimura[2], Jun Furukawa[4,5], Junko Takahashi[4,5], Chenyu Li[5], Takuro Shinano[2,3], Nathalie Leonhardt[6] ([1]IAR, Nagoya Univ., [2]Tohoku Agric. Res. Center, NARO, Japan, [3]Res. Fac. of Agric., Hokkaido University, [4]Center for Res. in Isotopes and Environ. Dynamics, [5]Life and Environ. Sci., [6]CEA, France)	1aH05 Evolutional Analysis of the Target Genes of microRNA319 Kazutaka Futagami, Masayuki Tsuzuki, Yuichiro Watanabe (Grad. Sch. Arts and Sci., Univ. Tokyo)	Symposium S01 Improvement of genomics and technologies upgrades the value of bioresources (9:30–12:22)	Symposium S02 Plant resilience mechanism for irregular environmental fluctuations over time (9:30–12:30)	10:30
1aE06 Analysis of novel abrupt movement to abiotic stimuli based on semi-dry pollen tube growth system Naoya Sugi, Tetsu Kinoshita, Daisuke Maruyama (Kihara Inst. Biol. Res., Yokohama City Univ.)	1aF06 The ER membrane–bending protein RETICULON facilitates chloroplast relocation movement in *Marchantia polymorpha* Kazuya Ishikawa[1], Ryota Konno[1], Yuta Fujii[1], Masayuki Fujiwara[2], Yoichiro Fukao[3], Yutaka Kodama[1] ([1]Ctr. Biosci. Res. Educ., Utsunomiya Univ., [2]Yanmar Holdings Co., Ltd., [3]Grad. Sch. Life Sci., Ritsumeikan Univ.)	1aG06 Verification of transport activity of "Mugineic acids derivative - iron complex" in dicotyledons Yoshinori Uchikawa[1], Motofumi Suzuki[2], Haruhiko Inoue[1,3] ([1]Tokyo University Of science, [2]Aichi Steel Corporation, [3]National Agriculture and Food Research Organization)	1aH06 Re-recognition: Modification in the C-terminal region of DICER-LIKE 1 impairs microRNA biogenesis in Arabidopsis Rino Hashimoto[1], Masayuki Tsuzuki[2], Tetsuya Higashiyama[1,3], Yuichiro Watanabe[1,2] ([1]Grad. Sch. Sci., Univ. Tokyo, [2]Grad. Sch. Arts Sci., Univ. Tokyo, [3]WPI-ITbM., Nagoya Univ)			10:45
1aE07 Ⓔ Functional analysis of the endosperm genes expressed in an embryonic development-dependent manner in Arabidopsis Yilin Zhang[1], Daisuke Maruyama[2], Erika Toda[3,4], Takashi Okamoto[3], Nobutaka Mitsuda[5], Hironori Takasaki[1], Masaru Ohme-Takagi[1,6] ([1]Grad. Sch. Sci. Eng., Univ. Saitama, [2]KIBR., City Univ. Yokohama, [3]Dept. Biol. Sci., Metro. Univ. Tokyo, [4]Dept. Biol. Sci., Univ. Tokyo, [5]Bioprod. Res. Inst., AIST, [6]Institute of Tropical Plant Science and Microbiology, NCKU)	1aF07 Phototropin Dimerization Is Not Essential for Chloroplast Relocation Movement in *Marchantia polymorpha* Minoru Noguchi, Yutaka Kodama (Ctr. Biosci. Res. Educ., Utsunomiya Univ)	1aG07 Visualization of ^{65}Zn behavior and analysis of Zn-transport-related genes in two *Lotus japonicus* accessions with different Zn accumulation capacity Yusaku Noda[1], Nobuo Suzui[1], Yong-Gen Yin[1], Naoki Kawachi[1], Jun Furukawa[2] ([1]Takasaki Advanced Radiation., QST, [2]Grad. Sch. Life and Environmental Sci., Univ. Tsukuba)	1aH07 Effects of T-DNA structures on the induction of plant gene silencing in agroinfiltration Emi Iida[1], Kazunori Kuriyama[1], Midori Tabara[3], Atsushi Takeda[2], Nobuhiro Suzuki[4], Hiromitsu Moriyama[1], Toshiyuki Fukuhara[1] ([1]Grad. Sch. Agri., Tokyo Univ. Agri. Tech, [2]Grad. Sch. Life Sci., Ritsumeikan Univ., [3]R-GIRO, Ritsumeikan Univ., [4]Inst. Plant Sci. & Res., Okayama Univ.)			11:00
1aE08 [Cancelled]		1aG08 Ⓔ Precious metal recovery from urban mines using a hot spring alga *Galdieria sulphuraria* Eri Adams[1,2], Kazuki Maeda[1,2], Tatsuya Kato[2,3], Chiharu Tokoro[2] ([1]Galdieria, Co., Ltd., [2]Waseda University, [3]Department of Physical Science and Engineering, Nagoya Institute of Technology)	1aH08 Study on the relationship between seed coat-specific RNA interference and dicer activity in soybean Riho Yamanashi[1], Kazunori Kuriyama[1], Midori Tabara[2], Hiromitsu Moriyama[1], Toshiyuki Fukuhara[1] ([1]Grad. Sch. Agr., Univ. A&T, [2]R-GIRO., Univ. Ritsumeikan)			11:15
1aE09 Mutational analysis of functional domains of Arabidopsis GEX1 required for nuclear membrane fusion Ibu Kato, Osamu Miyazono, Shuh-ichi Nishikawa (Fac. Sci. Niigata Univ.)		1aG09 OsbZIP83 transcription factor facilitates rice iron translocation under protein-level regulation of OsHRZ ubiquitin ligases Takanori Kobayashi[1], Haruka Shinkawa[1], Atsushi J. Nagano[2,3], Naoko K. Nishizawa[1] ([1]Res. Inst. Biores. Biotech., Ishikawa Pref. Univ., [2]Fac. Agri., Ryukoku Univ., [3]Inst. Adv. Biosci., Keio Univ.)				11:30

Ⓔ=Presentation in English

● Day 1, Tue., March 22, AM (9:30–12:15)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Plant-organism interaction B	Membrane trafficking	Primary metabolism
11:45				1aD10 An unknown-function protein CmNDB1 negatively regulates CmMYB1-dependent transcription of nitrate assimilation genes under nitrogen-repleted condition in a unicellular red alga Baifeng Zhou[1,2], Hiroki Shima[3], Kazuhiko Igarashi[3], Kazuhiro Takaya[4], Kan Tanaka[2], Sousuke Imamura[2,4] ([1]School of Life Science and Technology, Tokyo Institute of Technology, [2]Laboratory for Chemistry and Life Science, Institute of Innovative Research, Tokyo Institute of Technology, [3]Department of Biochemistry, Tohoku University Graduate School of Medicine, [4]NTT Space Environment and Energy Laboratories, Nippon Telegraph and Telephone Corporation)
12:00				1aD11 Exploring metabolic responses and key regulators contributing to rice growth under low NH_4^+ concentrations by omics analysis Keisuke Kutsuwada[1], Tomoko Nishizawa[2], Mikiko Koizumi[2], Makoto Kobayashi[2], Takanari Tanabata[3], Atsushi Fukushima[4], Kazuki Saito[2], Miyako Kusano[2,5,6] ([1]Univ of Tsukuba, Agro-bio Res Sci, [2]RIKEN, CSRS, [3]Kazusa DNA Res. Inst, [4]Kyoto Pref Univ, Life and Envi Sci, [5]Univ of Tsukuba, Life and Envi Sci, [6]T-PIRC)

Room E	Room F	Room G	Room H	Room Y	Room Z	Time
Reproductive growth	Photoreceptors/ Photoresponses	Environmental responses B	Transcriptional, post-transcriptional or translational, post-translational regulations	Symposium S01 Improvement of genomics and technologies upgrades the value of bioresources (9:30–12:22)	Symposium S02 Plant resilience mechanism for irregular environmental fluctuations over time (9:30–12:30)	11:45
		1aG10 Rice glutaredoxins control iron utilization under the regulation of OsHRZ ubiquitin ligases Haruka Shinkawa[1], Takanori Kobayashi[1], Atsushi J. Nagano[2,3], Naoko K. Nishizawa[1] ([1]Res. Inst. Biores. Biotech., Ishikawa Pref. Univ., [2]Fac. Agri., Ryukoku Univ., [3]Inst. Adv. Biosci., Keio Univ.)				
		1aG11 Shoot and root ratio affects the abundance of iron-reducing bacteria in the rhizosphere of rice (*Oryza sativa* L.) Takaya Yagi[1], Zhihang Feng[1], Yoshihiro Ohmori[1], Yoko Masuda[1], Hirotomo Ohba[2], Keisi Seno[1], Toru Fujiwara[1] ([1]stu. sch. sci., Univ. Tokyo, [2]Niigata Agricultural Research Institute)				12:00

Ⓔ=Presentation in English

● Day 1, Tue., March 22, PM (13:45–16:15)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Plant-organism interaction B	Organelles/Cytoskeleton	Primary metabolism
13:45	1pA01 Structural insights into the interaction mechanism between photosystem II and artificial electron acceptors Shinji Kamada[1], Yoshiki Nakajima[2], Jian-Ren Shen[2] ([1]Faculty of Science, Okayama University, [2]Research Institute for Interdisciplinary Science and Graduate School of Natural Science and Technology, Okayama University)	1pB01 Detection of microbiota contributing to the improvement of rice eating quality Hiroyuki Kato[1], Hiroyuki Kanamori[2], Masahiko Kumagai[3], Hajime Goto[4], Haruhiko Inoue[5], Kiyosumi Hori[1,2] ([1]Grad. Sch. Fro., Univ. Tokyo, [2]NICS., NARO, [3]NAAC., NARO, [4]Yamagata Pref. Agri. Res. Cent., [5]NIAS., NARO)	1pC01 Dynamic analysis of liquid-liquid phase separated pyrenoid in response to CO_2 concentration changes Tatsuhiro Kotoge, Takashi Yamano, Hideya Fukuzawa (Graduate School of Biostudies, Kyoto University)	1pD01 The role of OsbZIP11 transcription factor in nitrogen deficiency response in rice Namie Ohtsuki[1], Yoshiaki Ueda[2], Yasuhito Sakuraba[1], Shuichi Yanagisawa[1] ([1]Grad. Sch. Agr. Sci., Univ. Tokyo, [2]JIRCAS)
14:00	1pA02 Purification, crystallization, and X-ray crystallographic analysis of photosystem II of the thermophilic cyanobacterium *Thermosynechococcus vulcanus* cultured in the presence of yttrium Hajime Fujii, Yoshiki Nakajima, Jian-Ren Shen (Graduate School of Natural Science and Technology, Okayama University)	1pB02 Nod factor signaling regulates cell cycle reactivation during nodule development Teruki Sugiyama, Makoto Hayashi (CSRS, RIKEN)	1pC02 Cajal bodies, membrane-less nuclear structures, are involved in higher temperature response in *Arabidopsis* Shohei Ohta[1], Takayuki Sakurai[2], Tomoo Shimada[2], Kentaro Tamura[1] ([1]Grad. Sch. Sci., Univ. Shizuoka, [2]Grad. Sch. Sci., Kyoto University)	1pD02 Ⓔ The role of Dof1.7 transcription factor in NIGT1-regulated nitrogen deficiency responses in Arabidopsis Mengna Zhuo, Yasuhito Sakuraba, Shuichi Yanagisawa (Grad. Sch. Agri. Life Sci. Univ. Tokyo)
14:15	1pA03 Light-dependent kinetics of Photochemical Reflectance Index (PRI), a vegetation index Kaori Kohzuma, Kouki Hikosaka (Grad. Sch. Life Sci. Tohoku Univ.)	1pB03 Ⓔ Attachment to multiple *Medicago sativa* hosts does not cause increased benefit to facultative root hemiparasite *Phtheirospermum japonicum* growth Frederica Clarissa Frances[1], Louis John Irving[2] ([1]Grad. Sch. Sci. Tech., Univ. of Tsukuba, [2]Fac. Life Environ. Sci., Univ. of Tsukuba)	1pC03 Importin alpha 1, 2, 4 function redundantly in stress responses Airi Mori[1], Valerie Gaudin[2], Kentaro Tamura[1] ([1]Sch. Food and Nutritional Sci., Univ. Shizuoka, [2]IJPB, Inra, France)	1pD03 The role of LBD proteins in Gln-mediated repression of nitrogen response-related genes Yosuke Torii, Mineko Konishi, Yasuhito Sakuraba, Shuichi Yanagisawa (Grad. Sch. Agr. Life Sci., Univ. Tokyo)
14:30	1pA04 Introduction of flavodiiron protein rescues defects in electron transport around PSI due to overproduction of Rubisco activase in rice Mao Suganami[1,2], So Konno[2], Ryo Maruhashi[2], Daisuke Takagi[3], Youshi Tazoe[4], Shinya Wada[5], Hiroshi Yamamoto[6], Toshiharu Shikanai[6], Hiroyuki Ishida[2], Yuji Suzuki[7], Amane Makino[2] ([1]Faculty of Food and Agricultural Sciences, Institute of Fermentation Sciences, Fukushima University, [2]Graduate School of Agricultural Science, Tohoku University, [3]Faculty of Agriculture, Setsunan University, [4]Faculty of Agro-Food Science, Niigata Agro-Food University, [5]Graduate School of Agricultural Science, Kobe University, [6]Department of Botany, Graduate School of Science, Kyoto University, [7]Faculty of Agriculture, Iwate University)	1pB04 Biocontrol of bacterial wilt disease by beneficial microbes in tomato Eriko Tanaka[1,2], Masayuki Fujiwara[1], Rikako Makishima[1], Daisuke Umeki[1], Yusuke Saijo[2] ([1]Yanmar Holdings Co., Ltd, [2]Nara Institute of Science and Technology)	1pC04 Exploration of subcellular sites for the biosynthesis and storage of phytosterols Kazuki Isobe[1], Yuri Yonetani[1], Takashi L. Shimada[2], Ikuko Hara-Nishimura[3], Daisaku Ohta[1,4] ([1]Grad. Sch. Life & Environ. Sci., Osaka Pref. Univ., [2]Grad. Sch. Hort., Chiba Univ., [3]Fac. Sci. Eng., Konan Univ., [4]Bioeconomy Research Institute, Research Center for the 21st Century)	1pD04 Lipids deacylation activated under high-light stress occurs at the *sn*-1 position in *Synechococcus elongatus* PCC 7942 Nobuyuki Takatani[1], Yuya Senoo[2], Kazutaka Ikeda[2], Makiko Aichi[3], Hajime Wada[4], Tatsuo Omata[1] ([1]Grad. Sch. Bioagr. Sci., Nagoya Univ., [2]Dept. Appl. Genomics, Kazusa DNA Res. Inst., [3]Col. of Biosci. and Biotech. Chubu Univ., [4]Grad. Sch. Arts Sci., Univ. Tokyo)
14:45	1pA05 Roles of galactolipase A1 in the repair of photosystem II Haruhiko Jimbo, Hajime Wada (Grad. Sch. Arts Sci., Univ. Tokyo, Japan)	1pB05 Involvement of the intracellular membrane trafficking in the interaction of parasitic plant with host plant Risa Nishi, Koh Aoki (Grad. Sch. Life Environ., Osaka Pref Univ.)	1pC05 Analysis of the mechanism and regulation of protein transport to peroxisomes using Arabidopsis *apem* mutants Shoji Mano[1,2], Yasuko Hayashi[3,4], Kazumi Hikino[1], Masayoshi Otomo[3], Masatake Kanai[1], Mikio Nishimura[5] ([1]Dept. Cell Biol., Natl. Inst. Basic Biol., [2]Dept. Basic Biol., SOKENDAI, [3]Facl. Sci., Niigata Univ., [4]Grad. Sch. Sci. Tech., Niigata Univ., [5]Facl., Sci., Engineer. Konan Univ.)	1pD05 The Analysis of the function of GPAT genes on surface lipid synthesis in *Marchantia polymorpha* Motoki Fuki[1], Koichi Hori[1], Yuta Ihara[1], Kimitsune Ishizaki[2], Mie Shimojima[1], Hiroyuki Ohta[1] ([1]School of Life Science and Technology, Tokyo Institute of Technology, [2]Department of biology, Graduate school of science, Kobe University)

Room E	Room F	Room G	Room H	Room Y	Room Z	Time
Reproductive growth	Photoreceptors/ Photoresponses	Environmental responses B	Transcriptional, post-transcriptional or translational, post-translational regulations			
1pE01 Functional analysis of a gene encoding plasma membrane Ca^{2+}-ATPase in the sperm chemotaxis in *Marchantia polymorpha* Madoka Miyazaki[1], Satoshi Hirao[2], Taisuke Togawa[1], Katsuyuki Yamato[2] ([1]Grad. Sch. BOST, Kindai Univ., [2]BOST, Kindai Univ.)	1pF01 Involvement Of Lipid Transporter Flippase In Light-dependent Stomatal Opening At Low Temperatures Yu Ishimaru[1], Akira Nagatani[2], Tomomi Suzuki[2] ([1]Grad. Sch. Sci., Univ. Kyoto, [2]Univ. Kyoto)	1pG01 Ⓔ Ethanol treatment enhances drought stress tolerance in plants Khurram Bashir, Sultana Rasheed, Daisuke Todaka, Akihiro Matsui, Zarnab Ahmad, Yoshinori Utsumi, Vu Anh Thu, Satoshi Takahashi, Maho Tanaka, Junko Ishida, Yuuri Tsuboi, Shunsuke Watanabe, Eigo Ando, Makoto Seito, Hinata Motegi, Saya Kikuchi, Makoto Kobayashi, Miki Fujita, Fuminori Takahashi, Miyako Kusano, Yoshiki Habu, Kanako Kawaura, Jun Kikuchi, Masami Yokota Hirai, Mitsunori Seo, Kazuo Shinozaki, Toshinori Kinoshita, Motoaki Seki	1pH01 DNA double-strand break repair impacts proximal promoter chromatins and transcription levels Kohei Kawaguchi[1], Mei Kazama[1], Takayuki Hata[2], Naoto Takada[1], Chihiro Hayakawa[1], Mitsuhiro Matsuo[2], Junichi Obokata[2], Soichirou Satoh[1] ([1]Grad. Sch. Life Env. Sci., Kyoto Pref. Univ., [2]Fac. Agri., Setsunan Univ.)	Symposium S03 The forefront of plant RNA molecular biology: Sequence, structure and function (13:45–16:40)	Symposium S04 Sensors and actuators in biology and architecture (13:45–16:45)	13:45
1pE02 Identification of the pollen tube receptor module that has innovated angiosperm reproduction Takuya T. Nagae[1], Nozomi Naiki[1], Miki Imoto[1], Shiori Nagahara[2], Tetsuya Higashiyama[1,2,4], Kanako Bessho-Uehara[5], Hidenori Takeuchi[2,3] ([1]Grad. Sch. Sci., Nagoya Univ., [2]ITbM, Nagoya Univ., [3]Inst. Adv. Res., Nagoya Univ., [4]Grad. Sch. Sci., Univ. Tokyo, [5]Grad. Sch. Life Sci., Tohoku Univ.)	1pF02 Analysis of lipid-transporter flippase on its interaction with phototropin and BL-responses Tomomi Suzuki[1], Yu Ishimaru[1], Hiromasa Shikata[2,3], Akira Nagatani[1] ([1]Grad. Sch. Sci., Univ. Kyoto, [2]Div. Plant Env. Res., NIBB, [3]JST PRESTO)	1pG02 Ⓔ Ethanol treatment enhances drought stress avoidance in cassava (*Manihot esculenta* Crantz) Anh Thu Vu[1,6], Yoshinori Utsumi[1], Maho Tanaka[1,2], Chikako Utsumi[1], Daisuke Todaka[1], Satoshi Takahashi[1,2], Yuri Kanno[1], Mitsunori Seo[1], Eigo Ando[3], Kaori Sako[1,4], Khurram Bashir[1,5], Toshinori Kinoshita[3], Xuan Hoi Pham[6], Motoaki Seki[1,2,7] ([1]CSRS, RIKEN, [2]CPR, RIKEN, [3]WPI-ITbM, Nagoya Univ., [4]Dep. Adv. BIoci. Kindai Univ., [5]Dep. Biol. Lahore Univ. Management Sci., [6]Agricultural Genetics Inst. Vietnam, [7]Kihara Inst. Biol. Yokohama City Univ.)	1pH02 The effect of histone H2A.Z on diversification of gene expression among closely-related *Arabidopsis* ecotypes Kazuki Mukae[1], Kohei Kawaguchi[1], Takayuki Hata[2], Junichi Obokata[2], Soichirou Satoh[1] ([1]Grad. Sch. Life Env. Sci., Kyoto Pref. Univ., [2]Fac. Agri., Setsunan)			14:00
1pE03 Molecular characterization of the self-incompatibility in the cruciferous vegetable, Onoena Koichi Onishi[1], Naoki Ikeda[1], Yukihiko Nakagawa[2], Atushi Ogura[1,2,3], Ken-ichi Kubo[2], Fang-Sik Che[1,2,3] ([1]Grad. Sch. of Biosci., Nagahama Inst. of Bio-Sci. and Tech., [2]Dept. of Bio-Sci., Nagahama Inst. of Bio-Sci. and Tech., [3]Genome Editing Res. Inst. (GERI), Nagahama Inst. of Bio-Sci. and Tech.)	1pF03 UVB resistance and chloroplast movement in plant without CPD photolyase function in chloroplasts Momo Otake[1], Noriyuki Suetsugu[2], Mika Teranishi[1], Kaoru Yoshiyama (Okamoto)[1], Masamitsu Wada[3], Jun Hidema[1] ([1]Grad. Life. Sci., Tohoku Univ., [2]Grad. Arts and Sci., Univ. Tokyo, [3]Grad. Sci., Tokyo Metropolitan Univ.)	1pG03 Analyses of protein-protein interactions among signaling components involved in ABA and osmostress-regulated B-RAF signaling pathway in *Physcomitrium patens* Marcos Takeshi Miyabe[1], Tsukasa Toriyama[1], Daisuke Takezawa[2], Izumi Yotsui[1], Teruaki Taji[1], Yoichi Sakata[1] ([1]Dept. Bioscience, Tokyo Univ. Agriculture, [2]Saitama Univ., Grad. Sch. Science and Engineering)	1pH03 RNA silencing caused by triplication of the *dihydroflavonol 4-reductase* gene produces white margin on Japanese morning glory flowers Soya Nakagawa[1,2], Kyeung-Il Park[3], Yasumasa Morita[4], Shigeru Iida[1], Atsushi Hoshino[1,5] ([1]NIBB, [2]Grad. Sch. Agri., Univ. Miyazaki, [3]Col. Life Appl. Sci., Yeungnam Univ., [4]Fac. Agri., Meijo Univ., [5]Sch. Life Sci., SOKENDAI)			14:15
1pE04 The style curvature is occurred by auxin-induced cell elongation in eelgrass Misaki Obata[1], Tamae Kikuchi[1], Ayako Nakamura[1,2], Yukihisa Shimada[1,2], Hajime Shiota[1] ([1]Grad. Sch. Nanobio., Yokohama City Univ., [2]Kihara Inst. Bio. Res., Yokohama City Univ.)	1pF04 Functional analysis of BLUS1-interacting proteins in blue light-dependent stomatal opening Kyoka Tahara, Atsushi Takemiya (Grad. Sch. Sci. Tech. Innov., Yamaguchi Univ.)	1pG04 Ⓔ Forward genetic analysis of ethylene receptor-related histidine kinases responsible for the activation of B3-RAF in the moss *Physcomitrium patens* Rahul Sk[1], Marcos Takeshi Miyabe[1], Daisuke Takezawa[2], Izumi Yotsui[1], Teruaki Taji[1], Yoichi Sakata[1] ([1]Tokyo Univ. Agri., Dept. Bioscience, [2]Saitama Univ., Grad. Sch. Sci. and Eng.)	1pH04 Molecular evolution of cis-element binding affinity in the VNS family transcription factors, master regulators of water-conducting cell formation Nobuhiro Akiyoshi[1,2], Taizo Tamura[2], Taku Demura[2,3,4], Misato Ohtani[1,2,3] ([1]Grad. Sch. Front. Sci., Univ. Tokyo, [2]Grad. Sch. Bio., NAIST, [3]CSRS., RIKEN, [4]CDG., NAIST)			14:30
1pE05 A *CUP-SHAPED COTYLEDON*-Cytokinin Regulatory Module in the Carpel Margin Meristem Jose Irepan Reyes-Olalde[1,2], Stefan de Folter[3], Mitsuhiro Aida[4] ([1]Dept. Ecol. Funct., Univ. NAM, Mexico, [2]Lab. Fitoquim., Univ. EVT, Mexico, [3]UGA-LANGEBIO, CINVESTAV-IPN, Mexico, [4]IROAST, Kumamoto Univ.)	1pF05 Ⓔ Towards a better understanding of the molecular mechanisms that govern AHL-mediated repression of PIF-activated gene transcription David Favero[1], Ayako Kawamura[1], Arika Takebayashi[1], Akira Iwase[1], Keiko Sugimoto[1,2] ([1]RIKEN Cent. Sust. Res. Sci., [2]Dep. Biol. Sci., Univ. Tokyo)	1pG05 Sensor histidine kinases regulate both ABA and ethylene signaling pathways in the moss*Physcomitrium patens* Akihisa Shinozawa[1], Tsukasa Toriyama[2], Masashi Saruhashi[3], Mayuka Hiraide[3], Daisuke Takezawa[3], Izumi Yotsui[2], Teruaki Taji[2], Yoichi Sakata[2] ([1]NODAI Genome Research Center, Tokyo Univ. Agric., [2]Dept Bioscience, Tokyo Univ. Agric., [3]Grad. Sch. Sci and Eng., Univ. Saitama)	1pH05 Phosphorylation of plastidial serine biosynthetic enzyme 3-phosphoglycerate dehydrogenase Yukiko Uemura[1,2], Keisuke Yoshida[1,2], Chris White-Gloria[3], Greg B. Moorhead[3], Ken-ichi Wakabayashi[1,2], Toru Hisabori[1,2] ([1]Laboratory for Chemistry and Life Science, Institute of Innovative Research, Tokyo Institute of Technology, [2]School of Life Science and Technology, Tokyo Institute of Technology, [3]Department of Biological Sciences, University of Calgary)			14:45

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● Day 1, Tue., March 22, PM (13:45–16:15)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Plant-organism interaction B	Organelles/Cytoskeleton	Primary metabolism
15:00	1pA06 Effect of membrane lipid composition on complexes of photosystem II in the cyanobacterium *Synechocystis* sp. PCC 6803 Kensuke Takagi, Takashi Hirashima, Haruhiko Jimbo, Hajime Wada (Grad. Sch. Arts & Sci., Univ. Tokyo, Japan)	1pB06 Host nutrient status affects the interaction between the holoparasitic plant *Orobanche minor* and its clover host Mao Hattori (Life Env. Sci. Univ. Tsukuba)	1pC06 Autophagy is induced during plant grafting for wound healing Ken-ichi Kurotani[1], Ryo Tabata[2], Yaichi Kawakatsu[2], Ryohei Sugita[3], Koji Okayasu[2], Keitaro Tanoi[4], Michitaka Notaguchi[1,2,5] ([1]Biosci and Biotech Center, Nagoya Univ., [2]Grad. Sch. Bioagri. Sci., Nagoya Univ., [3]Radioisotope Res. Center, Nagoya Univ, [4]Grad. Sch. Agri. and Life Sci., Univ. Tokyo, [5]ITbM, Nagoya Univ.)	1pD06 Regulation of sterol biosynthesis by HISE1 is essential for growth in tomato Yuto Omata[1], Kentaro Ezura[2], Shigeo Sugano[2], Tsubasa Shoji[3], Koji Takano[3], Yozo Okazaki[3,4], Kazuki Saito[1,3], Haruko Ueda[5], Ikuko Hara-Nishimura[5], Takashi L. Shimada[1] ([1]Chiba Univ., [2]AIST, [3]RIKEN, [4]Mie Univ., [5]Fac. Sci. Engin., Konan Univ.)
15:15	1pA07 Analyses of Complete Knockout Mutants of Ferredoxin/Thioredoxin Pathway in *Arabidopsis* Keisuke Yoshida, Yuichi Yokochi, Kan Tanaka, Toru Hisabori (Lab. Chem. Life Sci., Tokyo Tech.)		1pC07 Analysis of the *peup10* Mutant Defective in Peroxisome Degradation via Autophagy Shino Goto-Yamada[1], Kazusato Oikawa[2], Shoji Mano[2,3], Mikio Nishimura[4], Kenji Yamada[1] ([1]MCB, Jagiellonian Univ., [2]Dept. Cell Biol., Natl. Inst. Basic Biol., [3]Dept. Basic Biol., Graduate Univ. Advanced Studies, [4]Facl., Sci., Engineer. Konan Univ.)	1pD07 Analysis of triacylglycerol accumulation and DGAT2 orthologs in cyanobacteria Shunya Takano, Toshiki Ishikawa, Kimie Atsuzawa, Motoki Tanaka, Yasuko Kaneko, Yukako Hihara (Grad. Sch. Sci. Eng., Saitama Univ.)
15:30	1pA08 Search for "NH_4^+-responsive region" in sequences of *OsAS1* and *OsRBCS* promoters in rice Dong-Kyung Yoon, Shiori Sato, Eri Kondo, Hiroyuki Ishida, Tadahiko Mae, Amane Makino, Soichi Kojima, Keiki Ishiyama (Grad. Sch. Agr. Sci., Univ. Tohoku)		1pC08 Functional analysis of Macroautophagy related protein 2, ATG2, in a microautophagic process Mako Yagyu, Kohki Yoshimoto (Grad. Sch. Agri., Meiji Univ.)	1pD08 Role of a coiled-coil domain-containing protein (CCDC) in regulation of sulfur-deprivation responses in the green alga *Chlamydomonas reinhardtii* Yoshinori Tsuji[1], Yuya Okada[1], Suzuka Nagafusa[1], Asuka Miyamoto[1], Haruka Shinkawa[1,2], Yuki Niikawa[1], Takashi Yamano[1], Masataka Kajikawa[1,3], Hideya Fukuzawa[1] ([1]Graduate school of Biostudies, Kyoto University, [2]Research Institute for Bioresources and Biotechnology, Ishikawa Prefectural University, [3]Factory of Biology-Oriented Science and Technology, Kindai University)
15:45	1pA09 Molecular analysis of CCM1/CBP1 complex for regulating CO_2-concentrating mechanism in the green alga *Chlamydomonas reinhardtii.* Junko Yasuda, Daisuke Shimamura, Miho Ogaki, Yosuke Yamahara, Hirobumi Nakano, Takashi Yamano, Hideya Fukuzawa (Grad. Sch. Bio., Univ. Kyoto)		1pC09 Development of a functional actin modification method for direct actin imaging Saku Kijima[1], Shingo Sakamoto[2], Nobutaka Mitsuda[2], Yoshihisa Oda[1,3] ([1]Dept. Gene Funct. Phenomics, NIG, [2]Bioproduction Res. Inst., AIST, [3]Dep. Genetics, SOKENDAI)	
16:00	1pA10 Morphological change of pyrenoid affects gene expression involved in CO_2-concentrating mechanism in the green alga *Chlamydomonas reinhardtii* Daisuke Shimamura, Yuki Niikawa, Donghui Hu, Takashi Yamano, Hideya Fukuzawa (Grad. Sch. Bio., Kyoto Univ)			

Room E	Room F	Room G	Room H	Room Y	Room Z	Time
Reproductive growth	Photoreceptors/ Photoresponses	Environmental responses B	Transcriptional, post-transcriptional or translational, post-translational regulations			
1pE06 *TAB1* promotes ovule development by maintaining the flower meristem in rice Wakana Tanaka[1], Suzuha Ohmori[2,3], Naoto Kawakami[3,4], Hiro-Yuki Hirano[2] ([1]Grad. Sch. Integr. Sci. Life, Hiroshima Univ., [2]Grad. Sch. Sci., Univ. Tokyo, [3]Grad. Sch. Agric., Meiji Univ., [4]Sch. Agric., Meiji Univ.)	1pF06 Photobehavior and photoprotection ability in the four-celled Vovocales green alga*Tetrabaena socialis* Asuka Tanno[1,2], Ryutaro Tokutsu[3,4], Yoko Arakaki[5], Noriko Ueki[6], Jun Minagawa[3,4], Kenjiro Yoshimura[7], Toru Hisabori[1,2], Hisayoshi Nozaki[5,8], Ken-ichi Wakabayashi[1,2] ([1]CLS, Tokyo Tech, [2]LST, Tokyo Tech, [3]Div. Env. Photobiol., NIBB, [4]SOKENDAI, [5]Dept. Biol. Sci., Grad. Sch. Sci., Univ. Tokyo, [6]Sci. Res. Ctr., Hosei Univ., [7]Col. Sys. Eng., Shibaura Inst. Tech., [8]Biodiv. Div., NIES)	1pG06 Functional analyses of ethylene receptor-related histidine kinases involved in osmostress responses of *Physcomitrium patens* Hiroki Matsumura[1], Marcos Takeshi Miyabe[1], Tsukasa Toriyama[1], Akihisa Shinozawa[2], Daisuke Takezawa[3], Izumi Yotsui[1], Teruaki Taji[1], Yoichi Sakata[1] ([1]Dept Bioscience, Tokyo Univ. Agric, [2]NODAI Genome Research Center, Tokyo Univ. Agric, [3]Grad. Sch. Sci and Eng., Univ. Saitama)	1pH06 Analysis of transcriptional and translational changes by photoreception in *Arabidopsis* seedlings Chika Akagi[1,2], Yukio Kurihara[2], Yuko Makita[2], Masaharu Kawauchi[2], Tomohiko Tsuge[1], Takashi Aoyama[1], Minami Matsui[2] ([1]Institute for Chemical Research, Kyoto University, [2]RIKEN Center for Sustainable Resource Science Synthetic Genomics Research Group)	Symposium S03 The forefront of plant RNA molecular biology: Sequence, structure and function (13:45–16:40)	Symposium S04 Sensors and actuators in biology and architecture (13:45–16:45)	15:00
1pE07 Jasmonic acid-regulated chromatin switch directs petal abscission in *Arabidopsis* Yuki Furuta, Haruka Yamamoto, Nobutoshi Yamaguchi, Toshiro Ito (NAIST)		1pG07 Isolation and analysis of ABA-hypersensitive mutants of *Physcomitrium patens* Ryotaro Oya[1], Yuri Morikawa[1], Teruaki Taji[1], Daisuke Takezawa[2], Yoichi Sakata[1], Izumi Yotsui[1] ([1]Dept Bioscience, Tokyo Univ. Agric., [2]Grad. Sch. Sci and Eng., Univ. Saitama)	1pH07 Multiple uORFs Are Involved in Translational Repression in the Arabidopsis Clock Gene *LHY* Haruka Aoyama[1], Yuma Ise[1], Akinori Takahashi[2], Tadashi Yamamoto[2], Yukako Chiba[1,3] ([1]Grad. Sch. Life Sci., Hokkaido Univ., [2]OIST, [3]Fac. Sci., Hokkaido Univ.)			15:15
1pE08 *Arabidopsis CRK14* gene encoding a receptor-like kinase is implicated in global proliferative arrest Chisato Ishizaki[1], Mayu Higuchi[1], Yuma Matsushita[1], Takamasa Suzuki[2], Nobuyoshi Mochizuki[3], Akira Nagatani[3], Chiharu Ueguchi[1] ([1]Grad. Sch. Bioagr. Sci., Nagoya Univ., [2]Col. Biosci. Biotech., Chubu Univ., [3]Dep. Botany, Grad. Sch. Science, Kyoto Univ.)		1pG08 Analysis of water deficit response in plant leaves using an automated phenotyping system RIPPS Miki Fujita, Fuyuko Shimoda, Mieko Noda, Kazuo Shinozaki (RIKEN CSRS)	1pH08 RNA silencing in male organ development Reina Komiya (OIST)			15:30
		1pG09 Ⓔ Spider silk expression in tobacco confers drought tolerance, with minimal effects on its mechanotypes Shamitha Rao Morey[1,2], Yoichi Hashida[3], Masaki Odahara[2], Keiji Numata[1,2] ([1]Laboratory of Biomaterial Chemistry, Graduate School of Engineering, Kyoto University, [2]Biomacromolecules Research Team, RIKEN Center for Sustainable Resource Science, [3]Faculty of Agriculture, Takasaki University of Health and Welfare)				15:45
		1pG10 SNS1 is required to survive long-term drought stress in plants Sotaro Katagiri, Yoshiaki Kamiyama, Taishi Umezawa (BASE, Tokyo Univ. Tech. and Agric.)				16:00

Ⓔ=Presentation in English

● Day 2, Wed., March 23, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Plant-organism interaction A	Organelles/Cytoskeleton	Secondary (specialized) metabolism
09:00	2aA01 Origin of phycobilin, the antennae pigment in cyanobacteria: theory of adaptive evolution to aerobic environment Kumiko Ito-Miwa[1,2], Satomi Kanno[2], Yuri I. Fujii[1,3], Chieko Onami[4], Hideaki Miyashita[3], Taro Matsuo[1,2] ([1]Grad. Sch. Sci., Nagoya Univ., [2]Inst. Adv. Stud., Nagoya Univ., [3]Grad. Sch. Human and Environmental Studies., Kyoto Univ., [4]Facul. Integ. Human Studies., Kyoto Univ.)	2aB01 Ⓔ Guanosine-specific Single-stranded Ribonuclease Effectors of a Phytopathogenic Fungus Potentiate Host Immune Responses Naoyoshi Kumakura[1], Suthitar Singkaravanit-Ogawa[2], Pamela Gan[1], Ayako Tsushima[1,6], Nobuaki Ishihama[1], Shunsuke Watanabe[1], Mitsunori Seo[1], Shintaro Iwasaki[3,4], Mari Narusaka[5], Yoshihiro Narusaka[5], Yoshitaka Takano[2], Ken Shirasu[1,6] ([1]CSRS, RIKEN, [2]Grad. Sch. Agr., Kyoto Univ., [3]CPR, RIKEN, [4]Grad. Sch. Frontier Sci., Univ. Tokyo, [5]Research Inst. Biol. Sci., Okayama, [6]Grad. Sch. Sci., Univ. Tokyo)	2aC01 Functional analysis of single B-box type *CONSTANS-LIKE* genes in Arabidopsis thaliana Mari Abumi, Shougo Kuramoto, Yasuko Ito-Inaba, Takehito Inaba (Fac. Agr., Univ. Miyazaki)	2aD01 Functional analysis of chloroplast ACCase1 in the marine diatom *Phaeodactylum tricornutum* Hajime Okuda, Yusuke Matsuda, Yuya Okada (Grad. Sch. Sci., Univ. Kwansei-gakuin)
09:15	2aA02 Rapid HPLC Analysis of Menaquinones in the Photosynthetic Reaction Center of Green Sulfur Bacteria Haruki Yoshino, Yasuhiro Onoue, Kazuki Terauchi, Chihiro Azai (Grad. Sch. Life Sci., Ritsumeikan Univ.)	2aB02 Analysis of QTR sequences for replication and migration of the endogenous pararetrovirus in petunia Kazunori Kuriyama[1], Midori Tabara[2], Hideki Takahashi[3], Hiromitsu Moriyama[1], Toshiyuki Fukuhara[1] ([1]Tokyo Univ. of Agri. and Tech., [2]Ritsumeikan Univ., [3]Tohoku Univ.)	2aC02 Exploring factors that interact with Arabidopsis CONSTANS-LIKE6 Shiho Shimizu, Hiroko Kinoshita, Yasuko Ito-Inaba, Takehito Inaba (Fac. Agr., Univ. Miyazaki)	2aD02 Marchantia DWF5A which is responsible for sterol 7-position reduction reaction, is involved in the development of thallus Miki Hatada[1], Ryota Akiyama[1], Kimitsune Ishizaki[2], Masaharu Mizutani[1] ([1]Grad. Sch. Agri., Univ. Kobe, [2]Grad. Sch. Sci., Univ. Kobe)
09:30	2aA03 Analysis of energy transfer reaction after carotenoids excitation in the photosynthetic reaction center of heliobacteria Risa Kojima[1], Taiki Nohara[2], Chihiro Azai[3], Daisuke Kosumi[4], Hirozo Oh-oka[1] ([1]Grad. Sch. Sci., Osaka Univ., [2]Grad. Sch. Sci. & Tech., Kumamoto Univ., [3]Coll. Life Sci., Ritsumeikan Univ., [4]IINA, Kumamoto Univ.)	2aB03 Physiological analysis of *chitin-induced cell death mutant* (*ccd1*) of *Physcomitrium patens* Takeru Ichihashi, Yuki Ambe, Teruaki Taji, Yoichi Sakata, Izumi Yotsui (Dept. Bio. Sci., Tokyo Univ. of Agriculture)	2aC03 *Arabidopsis* CRL promotes complex formation of OEP80, a member of Omp85 protein family of plastid Ryo Yoshimura[1], Syun Minamikawa[1], Ryohei Seta[1], Takamasa Suzuki[2], David Latrasse[3], Sicar Sanchari[3], Cécile Raynaud[3], Moussa Benhamed[3], Yasushi Yoshioka[1] ([1]Div. Biol. Sci., Grad. Sch. Sci, Nagoya Univ., [2]Col. Biosci. Biotech., Chubu Univ., [3]Inst. Plant Sci. Paris-Saclay, Univ. Paris-Sud)	2aD03 2-oxoglutarate dependent dioxygenases involved in biosynthesis of steroidal glycoalkaloids Ryota Akiyama[1], Masaru Nakayasu[1,2], Bunta Watanabe[3], Junpei Kato[1], Hyoung Jae Lee[1], Yoko Iijima[4], Naoyuki Umemoto[5], Toshiya Muranaka[6], Kazuki Saito[5,7], Yukihiro Sugimoto[1], Masaharu Mizutani[1] ([1]Grad. Sch. Agric., Kobe Univ., [2]RISH, Kyoto Univ., [3]ICR, Kyoto Univ., [4]Sch. Adv. Eng., Kogakuin Univ., [5]CSRS, Riken, [6]Grad. Sch. Eng., Osaka Univ., [7]PMSC, Chiba Univ.)
09:45	2aA04 Binding of ε-ring containing α-carotene and lactucaxanthin to photosynthetic machinery in *Euonymus fortunei* Kanoko Shimohara, Atsushi Takabayashi, Ryouichi Tanaka (Inst. Low Temp. Sci., Hokkaido Univ.)	2aB04 Ⓔ Immunity-related callose synthase regulates phosphate starvation response in *Arabidopsis thaliana* Kentaro Okada[1,2], Koei Yachi[1], Nguyen Tan Anh Nhi[1], Haruka Sumi[1], Satomi Kanno[3], Tae-Hong Lee[1], Chika Tateda[1], Kei Hiruma[1], Takaki Maekawa[4], Michitaka Notaguchi[2], Yusuke Saijo[1] ([1]Grad. Sch. Sci and Tech. NAIST, [2]Biosci and Biotech Center, Nagoya Univ., [3]Inst. Adv. Res., Nagoya Univ., [4]Inst. Plant Sci, Cologne Univ.)	2aC04 Arabidopsis *CRL* is a novel auxiliary factor for TOC complex formation Yasushi Yoshioka[1], Sae Miyazaki[1], Ryo Yoshimura[1], Aya Murata[1], Syogo Shibata[1], Tomoya Asano[2], Syun Minamikawa[1], Ryohei Seta[1], Hinako Uchida[1], Mika Nomoto[3], Yasuomi Tada[3], Takamasa Suzuki[4], Mitsuru Akita[5] ([1]Grad. Sch. Sci., Nagoya Univ., [2]Advanced Sci. Res. Center, Kanazawa Univ., [3]Gene Res. Center, Nagoya Univ., [4]College Biosci. Biotech., Chubu Univ., [5]Dept. Biosci., Grad. Sch. Agr., Ehime Univ.)	2aD04 Ⓔ Investigation of the plant aroma glycosides for improving the tomato flavor Yingtao Li[1], Yusuke Kamiyoshihara[2], Yusuke Aono[1], Denise Tieman[3], Harry Klee[3], Miyako Kusano[4,5,6] ([1]Degree Programs in Life and Earth Sciences, University of Tsukuba, [2]College of Bioresource Sciences, Nihon University, [3]Department of Horticultural Sciences, University of Florida, [4]Faculty of life and environment science, University of Tsukuba, [5]Tsukuba Plant Innovation Research Center, University of Tsukuba, [6]RIKEN Center for Sustainable Resource Science)

Room E	Room F	Room G	Room H	Room Y	Room Z	Time
Plant hormones/ Signaling molecules	Flowering/Clock	Environmental responses C	Vegetative growth			
2aE01 Physiological analysis of Arabidopsis mutant that lost all members of ABA 8'-hydroxylase Momoka Miyata[1], Ryosuke Mega[2], June-Sik Kim[3], Mitsunori Seo[3], Eiji Nambara[4], Masanori Okamoto[1] ([1]Utsunomiya Univ., [2]Yamaguchi Univ., [3]RIKEN CSRS, [4]Tronto Univ.)	2aF01 Analysis of the effects of environmental factors on FT transport Yusuke Murata, Mitsutomo Abe (Grad. Sch. Arts and Sci., The Univ. of Tokyo)	2aG01 Ⓔ Identification of translationally regulated mRNA targets by oligouridylate-binding protein1b (UBP1b) Kentaro Nakaminami[1], Miwako Asanuma[1], Maureen Hummel[2], Maho Tanaka[1,3], Satoshi Takahashi[1,3], Julia Bailey-Serres[2], Naoshi Dohmae[1], Motoaki Seki[1,3,4] ([1]CSRS, RIKEN, [2]Riverside, Univ. California, [3]CPR, RIKEN, [4]Kihara Inst. Biol. Res., Yokohama City Univ.)	2aH01 The Role of Local Auxin Biosynthesis in Lateral Root Primordium Formation Sanae Kaneta[1], Tatsuo Kakimoto[2] ([1]Sch. Sci., Osaka Univ., [2]Grad. Sch. Sci., Osaka Univ.)	Symposium S05 Toward understanding the unique features of plant stem cells (9:00–11:40)		09:00
2aE02 Production of 12-oxo-phytodienoic acid (OPDA) outside chloroplasts in Arabidopsis Takahiro Kanatani, Yuta Ihara, Takayuki Wakamatsu, Yuki Ebiya, Hiroyuki Ohta, Mie Shimojima (School of Life Science and Technology, Tokyo Institute of Technology)	2aF02 Group V B-box families repress flowering under low temperature Yoshinori Kondo[1], Akane Kubota[1], Shigeo Sugano[2], Tomoaki Muranaka[3], Nozomu Takahashi[1], Takato Imaizumi[4], Motomu Endo[1] ([1]NAIST, [2]AIST, [3]Kagoshima Univ, Dept of Environmental Sciences and Technology, [4]Univ of Washington, Dept of Biol)	2aG02 Ⓔ Ethanol Induces Heat Tolerance through Stimulation of the Endoplasmic Reticulum Stress response Daisuke Todaka[1], Akihiro Matsui[1], Maho Tanaka[1,2], Kayoko Mizunashi[1], Satoshi Takahashi[1,2], Yuji Sunaoshi[1,3], Yuuri Tsuboi[4], Junko Ishida[1,2], Jun Kikuchi[4], Miyako Kusano[5,6,7], Makoto Kobayashi[5], Kanako Kawaura[3], Motoaki Seki[1,2,3] ([1]Plant Genomic Network Res. Team, RIKEN CSRS, [2]Plant Epigenome Regulation Lab., RIKEN Cluster for Pioneering Res., [3]Kihara Inst. Biol. Res., Yokohama City Univ., [4]Enviro. Metabolic Analysis Res. Team, RIKEN CSRS, [5]Metabolomics Res. Group, RIKEN CSRS, [6]Grad. Sch. Life Enviro. Sci., Univ. Tsukuba, [7]Tsukuba Plant Innovation Res. Center, Univ. Tsukuba)	2aH02 Roles of the ROS-producing enzymes MpRbohs in the meristematic zones in *Marchantia polymorpha* Yuto Yamashita, Yuki Hagiwara, Takafumi Hashimoto, Kenji Hashimoto, Kazuyuki Kuchitsu (Dept. Appl. Biol. Sci., Tokyo Univ. of Science)			09:15
2aE03 Screening of novel mutants affecting gibberellin-related methyltransferase function in *Marchantia polymorpha* Eita Shimokawa[1], Shogo Kawamura[1], Rui Sun[1], Kaori Suzuki[1], Yoshihiro Yoshitake[1], Yukiko Yasui[1], Ryuichi Nishihama[2], Shohei Yamaoka[1], Kiyoshi Mashiguchi[3], Shinjiro Yamaguchi[3], Takayuki Kohchi[1] ([1]Graduate school of Biostudies. Kyoto Univ, [2]Department of Applied Biological Science, Tokyo University of Science, [3]Institute for Chemical research, Kyoto Univ)	2aF03 Analysis of inter-individual flowering-induced communication in duckweed plants Minako Isoda, Tokitaka Oyama (Grad. Sch. Sci., Kyoto Univ.)	2aG03 Quantitative analysis of local gene induction through heat shock response with IR-LEGO in the moss *Physcomitrium patens* Takumi Tomoi[1], Yuka Yoshida[2], Suguru Ohe[3], Joe Sakamoto[1], Yosuke Tamada[2,3,4,5,6], Yasuhiro Kamei[1,7,8] ([1]Lab. Biothermol., NIBB, [2]Grad. Sch. Reg. Dev. Creat., Utsunomiya Univ., [3]Sch. Eng., Utsunomiya Univ., [4]CORE, Utsunomiya Univ., [5]REAL, Utsunomiya Univ., [6]Div. Evol. Biol., NIBB, [7]Spectrography and Bioimaging Facility, NIBB, [8]Sch. Life Sci., SOKENDAI)	2aH03 Quantitative live-imaging and molecular genetic analysis of oscillation and gradient of Ca^{2+} concentration at the growing tip of rhizoids in *Marchantia polymorpha* Toru Ikeuchi, Mariko Higashijima, Naoaki Abe, Kenji Hashimoto, Kazuyuki Kuchitsu (Dept. Appl. Biol. Sci., Tokyo Univ. of Science.)			09:30
2aE04 Molecular mechanism of flowering regulation by gibberellin in *Arabidopsis* Jutarou Fukazawa, Yuki Ohashi, Kanako Nakai, Ryuhei Takahashi, Yohsuke Takahashi (Grad. Sch. Int. Sci. Life, Hiroshima Univ.)	2aF04 Detection and quantitative analysis of FT protein of *Ipomoea nil* on MRM assay by mass spectrometer Hitoshi Mori (Grad. Bioagr. Univ. Nagoya)	2aG04 Temperature-sensing mechanism through PICC and PICL, Endoplasmic Reticulum transmembrane proteins with a long-coiled coil structure Takato Matsumoto[1], Arisa Nakamura[1], Yuta Yoshitomi[2], Tsuyoshi Furumoto[1,2] ([1]Grad. Sch. Agr. Ryukoku. Univ., [2]Facu. Agr Ryukoku. Univ)	2aH04 Tomato mutant collections of the vegetative tissue/organ development isolated from the large mutation pools in NBRP-tomato Koichi Sugimoto, Tohru Ariizumi, Hiroshi Ezura (Univ. Tsukuba, T-PIRC)			09:45

Ⓔ=Presentation in English

● Day 2, Wed., March 23, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Plant-organism interaction A	Organelles/Cytoskeleton	Secondary (specialized) metabolism
10:00	2aA05 Ⓔ Functional evaluation of the *chlL*, *chlN*, *chlB* genes for chlorophyll biosynthesis encoded by the non-photosynthetic plastid genome of a novel coral-inhabiting apicomplexa *Corallicola aquarius* Nguyen Le[1], Haruki Yamamoto[1], Waldan Kwang[2], Patrick Keeling[2], Yuichi Fujita[1] ([1]Grad. Sch. Bioagricultural Sci., Nagoya Univ., [2]Department of Botany, Univ. British Columbia)	2aB05 Inactivation of abscisic acid responses provides a critical step in antibacterial water defense under high humidity Shigetaka Yasuda, Taishi Hirase, Haruka Ishizaki, Yusuke Saijo (Grad. Sch. Sci and Tech., NAIST)	2aC05 Study on Transport Pathway of Tmr, *Agrobacterium* Cytokinin Biosynthesis Enzyme, into the Plastid in Host Plant Cell Takahiro Suzuki, Mimi Hashimoto-Sugimoto, Hitoshi Mori, Takatoshi Kiba, Hitoshi Sakakibara (Grad. Sch. Bioagr. Sci., Nagoya Univ.)	2aD05 Ⓔ Comparative analysis of plant NADPH-cytochrome P450 reductase classes in *Lotus japonicus* towards triterpenoids biosynthesis Istiandari Pramesti[1], Shuhei Yasumoto[1,2], Ery Odette Fukushima[3], Hikaru Seki[1,2], Toshiya Muranaka[1,2] ([1]Department of Biotechnology, Graduate School of Engineering, Osaka University, Suita, Osaka, Japan, [2]Industrial Biotechnology Initiative Division, Institute for Open and Transdisciplinary Research Initiatives, Osaka University, Suita, Osaka, Japan, [3]Universidad Regional Amazónica IKIAM, Vía Muyuna Km 7, Tena, Ecuador)
10:15	2aA06 Core structure of a thermophilic cyanobacterial light-harvesting phycobilisome Keisuke Kawakami[1], Tasuku Hamaguchi[1], Yuu Hirose[2], Daisuke Kosumi[3], Makoto Miyata[4], Nobuo Kamiya[4], Koji Yonekura[1,5] ([1]RIKEN SPring-8 Center, [2]Toyohashi University of Technology, [3]Kumamoto University, [4]Osaka City University, [5]Tohoku University)	2aB06 Sugar influx via transporters enhances defense signaling Kohji Yamada[1], Akira Mine[2] ([1]Grad. Sch. Tech. Ind. Sco. Sci., Tokushima Univ., [2]Grad. Sch. Agri., Kyoto Univ.)	2aC06 Yeast-two-hybrid screen to identify host plant proteins that interact with Tmr, *Agrobacterium* cytokinin synthase Ryuya Makino (Grad. Sch. Bio. Sci., Nagoya Univ.)	2aD06 Identification of target genes reducing oxalate accumulation in spinach using VIGS Shoya Ichikawa[1], Kazuhiro Ishibashi[2], Tadasu Frusho[3], Izumi Yotsui[1], Yoichi Sakata[1], Teruaki Taji[1] ([1]Grad. Sch. Bio., Univ. Tokyo, [2]National Agriculture and Food Research Organization, [3]Sch. Int., Univ. Tokyo)
10:30	2aA07 ChaetoBase – The Centric Diatom *Chaetoceros gracilis* Genome Database – and Functional Analysis of Fucoxanthin Chlorophyll *a*/*c*-Binding Proteins (Light-Harvesting Complex Proteins) Minoru Kumazawa[1], Hiroyo Nishide[2], Ryo Nagao[3], Natsuko Inoue-Kashino[4], Jian-Ren Shen[3], Takeshi Nakano[1], Ikuo Uchiyama[2], Yasuhiro Kashino[4], Kentaro Ifuku[5] ([1]Grad. Sch. Biostudies, Kyoto Univ., [2]NIBB, [3]RIIS, Okayama Univ., [4]Grad. Sch. Sci., Univ. Hyogo, [5]Grad. Sch. Agri. Kyoto Univ.)	2aB07 Ⓔ The Small GTPase OsRac1 forms two distinct immune receptor complexes containing the PRR OsCERK1 and the NLR Pit Akira Akamatsu[1], Masayuki Fujiwara[2], Satoshi Hamada[3], Yoji Kawano[4] ([1]Kwansei Gakuin University, [2]Yanmar Holdings Co., Ltd., [3]Nara Institute of Science and Technology, [4]Okayama University)	2aC07 Expression and localization analysis of RETICULATA-RELATED3 and RETICULATA-RELATED4 proteins in C_4 *Flaveria* Hayate Machino[1], Hiroaki Hanata[1], Ryusei Inoue[1], Tsuyoshi Furumoto[2], Kenji Nishimura[1], Yuri Munekage[1] ([1]Grad. Sch. Sci. Tech., Kwansei Gakuin Univ., [2]Facu. Sch. Agr., Univ. Ryukoku)	2aD07 Challenge to modify *Ocimum* species' fragrance by grafting Shogo Hirose, Kaito Sakai, Keigo Hidaka, Rio Fukuta, An Yokoi, Mayu Tanaka, Atsushi Morikami, Masato Tsuro, Hironaka Tsukagoshi (Faculty of Agriculture, Meijo University)
10:45	2aA08 Quantitative assessment of spillover from photosystem II (PSII) to PSI at 77 K Ichiro Terashima, Riichi Oguchi, Masaru Kono (Plant Ecol., Dept. Biological Sci., Univ. Tokyo)	2aB08 Ⓔ Immunogenic OsPep peptides promote rice growth dependent on root microbes Masako Fuji[1], Yuniar Devi Utami[1,2], Shigetaka Yasuda[1], Yuni Tajima[1], Takuma Ishizaki[3], Yuichi Hongoh[2], Yutaka Sato[4], Yusuke Saijo[1] ([1]Grad. Sch. Sci. and Tech., NAIST, [2]Grad. Sch. Biosci. Biotech., Tokyo Institute of Tech., [3]JIRCAS, [4]NIG)	2aC08 Identification of interactors of the bundle sheath chloroplast protein RETICULATA-RELATED 3 in C_4 *Flaveria bidentis* Ryusei Inoue[1], Hiroaki Hanata[1], Hayate Machino[1], Reiko Nakagawa[2], Tsuyoshi Furumoto[3], Kenji Nishimura[1], Yuri Munekage[1] ([1]Grad. Sch. Sci. Tech., Kwansei Gakuin Univ., [2]RIKEN BDR, [3]Facu. Sch. Agr., Univ. Ryukoku)	2aD08 Characterization of Transporter Genes Located within Biosynthetic Gene Cluster for Camptothecin Production in Ophiorrhiza pumila Nozomi Nitanda, Amit Rai, Kazuki Saito, Mami Yamazaki (Grad. Sch. Pharm. Sci., Chiba Univ.)
11:00	2aA09 Unique chromatic acclimation of the cyanobacterium *Pleurocapsa* sp. PCC 7319 controlled by dual photosensors Takuto Otsu, Toshihiko Eki, Yuu Hirose (Toyohashi Univ. of Tech.)	2aB09 Two different immune pathways activated by the NB-LRR type receptor Xa1 regulate bacterial blight resistance in rice Ayaka Yoshihisa[1], Satomi Yoshimura[1], Motoki Shimizu[2], Koji Yamaguchi[1], Tsutomu Kawasaki[1] ([1]Grad. Sch. Agr., Univ. Kindai, [2]Iwate Biotech., Res., Ctr.)	2aC09 Diverse regulation of nuclear gene expression by plastid signaling Midori Inose[1], Masafumi Henzan[1], Toko Funaki[1], Mitsumasa Hanaoka[1,2] ([1]Grad. Sch. Horticul., Chiba Univ., [2]Plant Mol. Sch. Cent., Chiba Univ.)	

Room E	Room F	Room G	Room H	Room Y	Room Z	Time
Plant hormones/ Signaling molecules	Flowering/Clock	Environmental responses C	Vegetative growth			
2aE05 Screening and Analysis of molecular mechanism of novel plant growth promotor PPG Kazuma Ohata[1], Shun Takeno[2,3], Shota Tanaka[2,3], Keiya Kaga[1,7], Ayumi Yamagami[1], Setsuko Shimada[2], Minami Matsui[2], Yusuke Kakei[4], Yukihisa Shimada[4], Shoji Segami[5], Ryosuke Sasaki[2], Masami Yokota Hirai[2], Yasumitsu Kondo[2], Naoshi Dohmae[2], Tetsuo Kushiro[3], Masayoshi Maeshima[5], Tadao Asami[6], Hiroyuki Osada[2], Kazuo Shinozaki[2], Masaru Ohme-Takagi[7], Takeshi Nakano[1] ([1]Grad. Sch. Biostudies, Kyoto Univ., [2]RIKEN CSRS, [3]Grad. Agri. Chem., Meiji Univ., [4]Yokohama City Univ., [5]Grad Sch. Biol. Agri., Nagoya Univ., [6]Grad. Sch. Appl. Biol. Chem., Univ. of Tokyo, [7]Grad. Sch. Sci. Eng., Saitama Univ)	2aF05 Analysis of florigen intercellular transport and concentration gradient formation in the shoot apical meristem of rice Juri Nakamura, Mari Tanaka, Hiroyuki Tsuji (Kihara Institute for Biological Research, Yokohama City Univ.)	2aG05 Identification And Analysis Of Conditionally Interacting Proteins Of The Stress-Responsive Transcription Factor DREB2A Haruho Funamori[1], Fuminori Takahashi[2,3], Satoshi Kidokoro[1], Yoko Kamei[1], Kazuo Shinozaki[3], Kazuko Yamaguchi-Shinozaki[1,4], Junya Mizoi[1] ([1]Grad. Sch. Agr. Life Sci., Univ. Tokyo, [2]Fac. Adv. Eng., Tokyo Univ. Sci., [3]Center for Sustainable Resource Science, RIKEN, [4]Res. Inst. Agr. Life Sci., Tokyo Univ. Agr.)	2aH05 Cytokinin-inducible basic-Helix-Loop-Helix Family Transcription Factors are involved in the Secondary Growth in *Arabidopsis thaliana* Yoshiyuki Sakurai[1], Yurina Shimada[1], Kazuma Uesaka[2], Takafumi Yamashino[1] ([1]Grad. Sch. Bioagr. Sci., Nagoya Univ., [2]The Center for Gene Research, Nagoya Univ.)	Symposium S05 Toward understanding the unique features of plant stem cells (9:00–11:40)		10:00
2aE06 Elucidation of Structure and Function of Novel Cytokinins Produced by Phytopathogen *Rhodococcus fascians* Mika Yoshino[1], Alicia Surjana[1], Mikiko Kojima[2], Kensuke Kouki[1], Toshio Nishikawa[1], Hitoshi Sakakibara[1,2] ([1]Grad. Sch. Bio. Sci., Nagoya Univ., [2]RIKEN CSRS)	2aF06 Spatial integration of florigen and cytokinin signalling regulates reproductive development in rice Moeko Sato[1], Yuki Sakamoto[2], Mari Tanaka[1], Jun Ito[1], Ken-ichiro Taoka[1], Masafumi Mikami[3], Masaki Endo[3], Hidemi Kitano[4], Sachihiro Matsunaga[5], Hiroyuki Tsuji[1] ([1]KIBR, Yokohama City Univ., [2]Dept. Biol. Sci., Grad. Sch. Sci., Osaka Univ., [3]Inst. Agrobiol. Sci., NARO, [4]Biosci. and Biotech. Cen., Nagoya Univ., [5]Grad. Sch. Front. Sci., Univ. Tokyo)	2aG06 Functional Analyses of *sensitive to long-term heat 3* (*sloh3*) Mutant of *Arabidopsis thaliana* Naoya Endo, Ryo Tsukimoto, Kazuho Isono, Izumi Yotsui, Yoichi Sakata, Teruaki Taji (Dept. Bioscience, Tokyo Univ. of Agriculture)	2aH06 *SORFC03*, a short ORF-encoded peptide, is involved in repressing lateral root development under high nitrogen conditions in *Arabidopsis* Kazuhiro Ito[1], Yuki Hisanaga[1], Sakina Kawano[1], Atsushi Mabuchi[1], Kousuke Hanada[2], Koh Iba[1], Kensuke Kusumi[1] ([1]Dept. Biol., Fac. Sci., Kyushu Univ., [2]Dept. Bioscience and Bioinformatics, Kyushu Institute of Technology)			10:15
2aE07 The Study of Novel Cytokinin Produced by *fas* Genes Kazuki Miyata[1], Alicia Surjana[1], Mikiko Kojima[2], Kensuke Kouki[1], Toshio Nishikawa[1], Hitoshi Sakakibara[1,2] ([1]Grad. Sch. Bio. Sci., Nagoya Univ., [2]RIKEN CSRS)	2aF07 Purification of florigen activation complex Eri Funayama[1], Ken-ichiro Taoka[1], Yoichiro Fukao[2], Hiroyuki Tsuji[1] ([1]Kihara Institute for Biological Research, Yokohama City Univ., [2]Col. of Life Sci., Ritsumeikan Univ.)	2aG07 Conserved Two-component Hik2-Rre1 Signalling Is Activated Under Temperature Upshift and Plastoquinone-reducing Conditions in the Cyanobacterium *Synechococcus elongatus* PCC 7942 Nachiketa Bairagi[1,2], Satoru Watanabe[3], Kaori Nimura-Matsune[3], Kenya Tanaka[4,5], Tatsuhiro Tsurumaki[1,2], Shuji Nakanishi[5], Kan Tanaka[1] ([1]CLS, IIR, Tokyo Tech., [2]Dept. LST, Tokyo Tech., [3]Dept. Biosci, Tokyo Univ. Agric., [4]EGBRC, Kobe Univ., [5]Grad. Sch. Eng. Sci., Osaka Univ.)	2aH07 Ⓔ Auxin response of exaggerated root cut response in *aux/iaa3/shy2-101* dominant mutant Feiyang Lin[1], Kang Xu[1], Yota Fujise[2], Ken-ichiro Hayashi[3], Takehide Kato[4], Miyo T. Morita[5], Hidehiro Fukaki[6], Masaaki K. Watahiki[1,2] ([1]Grad. Sch. Life Sci., Univ. Hokkaido Univ., [2]Fac. Sci, Hokkaido Univ., [3]Dep. Biochem., Okayama Univ. Sci, [4]Div. of Biol. Sci., Grad. Sch. of Sci. and Tech., NAIST, [5]NIBB, [6]Grad. Sch. of Sci., Kobe Univ.)			10:30
2aE08 Functional Analysis of a Non-canonical Strigolactone Biosynthetic Enzyme in Rice Kiyoshi Mashiguchi[1,2], Takahiro Kobayashi[1], Naoki Kitaoka[2,3], Hiroki Taniguchi[4], Hironori Hashida[2], Hiroki Tokunaga[2,5], Junko Kyozuka[2], Kohki Akiyama[4], Shinjiro Yamaguchi[1,2] ([1]ICR, Kyoto Univ., [2]Grad. Sch. Life Sci., Tohoku Univ., [3]Grad. Sch. Agri., Hokkaido Univ., [4]Grad. Sch. Life & Environ. Sci., Osaka Pref. Univ., [5]RIKEN CSRS)		2aG08 The survival strategy of a red-leaf variety of *Oxalis corniculata* against high temperature and high light stress Hayata Misu[1,2], Ichiro Terashima[1,2], Yuya Fukano[3], Wataru Yamori[3] ([1]Laboratory of Plant Ecology, [2]Department of Biological Sciences, Graduate School of Science, The University of Tokyo, [3]Institute for Sustainable Ecosystem Services, Graduate School of Agricultural and Life Sciences, The University of Tokyo)	2aH08 MpHYPNOS-mediated regulatory mechanism of gemma dormancy in *Marchantia polymorpha* Nami Yoshimura[1], Mikako Yoshikawa[1], Arisa Yasuda[2], Hirotaka Kato[1], Yuuki Sakai[1], Tetsuro Mimura[1,3,4], Yuki Kondo[1], Hidehiro Fukaki[1], Kimitsune Ishizaki[1] ([1]Grad. Sch. Sci., Kobe Univ., [2]Fac. Sci., Kobe Univ., [3]Grad. Sch. Agri. Life Sci., Univ. Tokyo, [4]Col. Biosci. Biotech., National Cheng Kung Univ.)			10:45
2aE09 Analysis of the transcriptional module responsible for temperature-dependent rice germination Hideki Yoshida[1,2], Ko Hirano[2], Kenji Yano[2,3], Fanmiao Wang[2], Masaki Mori[2], Mayuko Kawamura[2], Eriko Koketsu[2], Masako Hattori[2], Reynante Ordonio[2], Peng Huang[2], Makoto Matsuoka[1,2] ([1]IFeS, Fukushima Univ., [2]BBC, Nagoya Univ, [3]AIP, RIKEN)		2aG09 Bolting Characteristics of Dioecious Spinach in Different Male and Female Plants at Constant and Fluctuating Temperature Conditions in Growth Chambers Yuki Yoneda, Hiroki Kawashima (WARC, NARO)	2aH09 Metabolic reprogramming yields a key metabolite that promotes Compensated Cell Enlargement in *fugu5* Hiromitsu Tabeta[1,2,3], Muneo Sato[2], Shizuka Gunji[1], Hirokazu Tsukaya[4], Masami Yokota Hirai[2], Ali Ferjani[1] ([1]Grad. Sch. Edu., Tokyo Gakugei Univ., [2]RIKEN CSRS, [3]Grad. Sch. Art Sci., Univ. Tokyo, [4]Grad. Sch. Sci., Univ. Tokyo)			11:00

Ⓔ=Presentation in English

● Day 2, Wed., March 23, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Plant-organism interaction A	Organelles/Cytoskeleton	Secondary (specialized) metabolism
11:15	2aA10 Effects of light and oxygen on chlorophyll *d* biosynthesis in a marine cyanobacterium *Acaryochloris marina* Yuki Tsuzuki[1], Yusuke Tsukatani[2], Hisanori Yamakawa[1], Shigeru Itoh[3], Yuichi Fujita[1], Haruki Yamamoto[1] ([1]Grad. Sch. Bioagr. Sci., Nagoya Univ., [2]JAMSTEC, [3]Grad. Sch. Sci., Nagoya Univ.)	2aB10 Ⓔ Root-specific *CLE3* expression is required for *WRKY33* activation in Arabidopsis shoots Dichao Ma[1,2], Satoshi Endo[1,3], Eriko Betsuyaku[4], Toru Fujiwara[2], Shigeyuki Betsuyaku[4], Hiroo Fukuda[1,5] ([1]Grad. Sch. Sci., Univ. Tokyo, [2]Grad. Sch. Agr. Life Sci., Univ. Toky, [3]Inst. Interdiscip. Res., KUAS, [4]Fac. Agr., Ryukoku Univ., [5]Fac. Bioenvir. Sci., KUAS)	2aC10 *Chlamydomonas* cpSRP consists of cpSRP43 and cpSRP54 and binds to ALB3.1 in the thylakoid membranes Hiroshi Kuroda[1], Shin-Ichiro Ozawa[2], Shino Hamao[1], Yuichiro Takahashi[1] ([1]RIIS, Okayama Univ., [2]IPSR, Okayama Univ.)	
11:30				
11:45				

Room E	Room F	Room G	Room H	Room Y	Room Z	Time
Plant hormones/ Signaling molecules	Flowering/Clock	Environmental responses C	Vegetative growth			
2aE10 Analysis of the molecular mechanism of stomatal closure induced by the primary metabolite malate Yoshiharu Mimata, Shintaro Munemasa, Toshiyuki Nakamura, Yoshimasa Nakamura, Yoshiyuki Murata (Grad. Sch. Env. life Sci., Okayama Univ.)		2aG10 Dissecting causal mechanisms underlying loss of acquired osmotolerance in *Arabidopsis thaliana* Wt-1 Takahiro Hirano[1], Hirotaka Ariga[2], Izumi Yotsui[1], Yoichi Sakata[1], Teruaki Taji[1] ([1]Dept. of Bioscience, Tokyo Univ. of Agriculture, [2]Div. of Plant Sci., NARO)	2aH10 Genetics and multi-omics integration analyses identified cell differentiation state maintenance mechanisms in *hope-1* mutant hypocotyls Mizuki Shiratori[1,2], Kazuki Takahashi[2], Hiromitsu Tabeta[1,2,3], Hiroyuki Koga[4], Shizuka Gunji[2], Muneo Sato[3], Gorou Horiguchi[5,6], Masami Yokota Hirai[3], Hirokazu Tsukaya[4], Ali Ferjani[2] ([1]Grad. Sch. Art Sci., Univ. Tokyo, [2]Dept. Biol., Tokyo Gakugei Univ., [3]RIKEN CSRS, [4]Grad. Sch. Sci., Univ. Tokyo, [5]Dept. Life Sci., Rikkyo Univ., [6]Res. Ctr. Life Sci., Rikkyo Univ.)			11:15
		2aG11 A cytochrome P450 protein identified via FOX hunting using *Eutrema salsugineum* cDNAs improves acquired osmotolerance Takuma Kajino[1], Masahiro Yamaguchi[1], Jumpei Narushima[2], Yukio Yaguchi[3], Izumi Yotsui[1], Yoichi Sakata[1], Teruaki Taji[1] ([1]Dept. Bioscience, Tokyo Univ. of Agriculture, [2]Dividion of Bichem, NIHS, [3]Research Institute for Agriculture and Life Science)	2aH11 Elucidation of effects of atmospheric low-temperature plasma irradiation on plant growth and their molecular mechanisms using *Marchantia polymorpha* as a model Shoko Tsuboyama[1], Takamasa Okumura[2], Kazunori Koga[2,3], Masaharu Shiratani[2], Kazuyuki Kuchitsu[1] ([1]Dept. Appl. Biol. Sci., Tokyo Univ. of Sci., [2]ISEE, Kyushu Univ., [3]NINS)			11:30
			2aH12 Analysis of Cell Stiffness in Developing Xylem Vessel Cells in Arabidopsis Tadashi Kunieda[1,2], Jumpei Kawamura[1], Ayumu Bessho[1], Keisuke Kishida[1], Yoichiroh Howokawa[2,3], Taku Demura[1,2] ([1]Div. of Biol. Sci., NAIST, [2]CDG, NAIST, [3]Div. of Mat. Sci., NAIST)			11:45

Ⓔ=Presentation in English

● Day 2, Wed., March 23, PM (13:15–16:15)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Systems biology	Organelles/Cytoskeleton	Secondary (specialized) metabolism
13:15	2pA01 Functional Analysis Of The Third Nitrogenase-like Enzyme In Photosynthetic Bacterium *Rhodobacter capsulatus* Yoshiki Morimoto[1], Kazuma Uesaka[2], Yuichi Fujita[1], Haruki Yamamoto[1] ([1]Grad. Sch. Bioagr. Sci., Nagoya Univ., [2]Center for Gene Research, Nagoya University)	2pB01 A de-novo gene originated from mitochondria controls flowering timing in *Arabidopsis thaliana* Tomoyuki Takeda[1], Kazumasa Shirai[1], You-wang Kim[1], Mieko Higuchi-Takeuchi[2], Minami Shimizu[2], Takayuki Kondo[1], Tomokazu Ushijima[3], Tomonao Matsushita[4], Kazuo Shinozaki[2], Kousuke Hanada[1] ([1]Department of Bioscience and Bioinformatics, Kyushu Institute of Technology, [2]RIKEN Center for Sustainable Resource Science, [3]Department of Agricultural Science and Technology, Faculty of Agriculture, Setsunan University, [4]Department of Botany, Graduate School of Science, Kyoto University)	2pC01 Chloroplast photorelocation movement in *Arabidopsis thaliana* grown under different light conditions Aya Masuda[1], Yuki Sakamoto[1], Takumi Higaki[2], Motoki Tominaga[3,4], Shingo Takagi[1] ([1]Grad. Sch. Sci., Osaka Univ., [2]Kumamoto University, Faculty of Advanced Science and Technology, [3]Fac. Educ. Integrated Arts. Sci., Bio., Univ. Waseda, [4]Grad. Sch. Adv. Sci. and Eng., Univ. Waseda)	2pD01 Cluster-forming CYP71Bs of *Arabidopsis thaliana* metabolize free indole-related compounds Kai Uchida, Masami Yokota Hirai (RIKEN CSRS)
13:30	2pA02 Loss of *rsbU* gene enhances heterotrophic growth in the dark and represses photoautotrophic growth of the cyanobacterium *Leptolyngbya boryana* Marie Nishio, Shintaro Hida, Nobuyuki Takatani, Haruki Yamamoto, Yuichi Fujita (Grad. Sch. Bioagr. Sci., Nagoya Univ.)	2pB02 Comparative genome/transcriptome analysis under high temperature conditions at the ripening stage of rice Kyonoshin Maruyama[1], Hiroaki Sakai[2], Asako Kobayashi[3], Tetsuya Sakurai[4], Yuuko Mizukami[6], Aoi Hamagashira[5], Kenichirou Mori[6] ([1]JIRCAS, [2]NAAC, [3]Fukui Agr. Exp. Stn, [4]Mul. Sci., Kochi Univ., [5]Ama Agri. Forest. Fish. Office, [6]Aichi Agri. Res. Center)	2pC02 Roles of plastid anionic lipids during the development of etioplasts in dark-grown *Arabidopsis thaliana* Akiko Yoshihara[1], Hajime Wada[2], Noriko Nagata[3], Koichi Kobayashi[4] ([1]Grad. Sch. Sci., Osaka pref. Univ., [2]Grad. Sch. Art. Sci., Univ. Tokyo, [3]Fac. Sci., Japan Women's Univ., [4]Grad. Sch. Sci., Osaka pref. Univ.)	2pD02 Identification of acyltransferase genes involved in biosynthesis of phenylethanoid glycoside by using sesame cell culture Yushiro Fuji[1,4], Hiroshi Matsufuji[2], Tomoyoshi Akashi[3], Masami Yokota Hirai[4] ([1]College of Bioresource Sciences, Nihon University, [2]Department of Food Bioscience and Biotechnology, College of Bioresource Sciences, Nihon University, [3]Department of Applied Biological Sciense, College of Bioresource Sciences, Nihon University, [4]RIKEN Center for Sustainable Resource Science)
13:45	2pA03 Search for genes involved in photosynthesis-dependent nitrogen-fixing growth of the cyanobacterium *Leptolyngbya boryana* by transposon tagging Mari Banba[1], Kazuma Uesaka[2], Chie Tomatsu[1], Haruki Yamamoto[1], Kunio Ihara[2], Yuichi Fujita[1] ([1]Grad. Sch. Bioagr. Sci., Nagoya Univ., [2]Center for Gene Research, Nagoya Univ.)	2pB03 Development of RIKEN Plant Metabolonome MetaDatabase Atsushi Fukushima[1,2], Mikiko Takahashi[1], Hideki Nagasaki[1,3], Yusuke Aono[4], Makoto Kobayashi[1], Miyako Kusano[1,4], Kazuki Saito[1], Norio Kobayashi[1], Masanori Arita[1,5] ([1]RIKEN CSRS, [2]Grad. Sch. Life Environ. Sci., Kyoto Pref. Univ., [3]KAZUSA DNA Research Institute, [4]Grad. Sch. of Life & Env. Sci., Univ. Tsukuba, [5]DDBJ, National Institute of Genetics)	2pC03 Metabolic changes caused by overaccumulation of the bacterial alarmone ppGpp contribute to increased plant biomass under nitrogen deficiency Mina Goto[1], Akira Oikawa[2], Shinji Masuda[1] ([1]Dept. Life Sci. & Technol., Tokyo Inst. Tech., [2]Grad. Schl. Agri., Univ. Kyoto)	2pD03 Transgenic *Forsythia* plants expressing a sesame cytochrome P450 produce beneficial lignans Tomotsugu Koyama[1], Erika Matsumoto[1], Toshimi Okuda[1], Jun Murata[1], Manabu Horikawa[1], Naoki Hata[2], Atsushi Okazawa[3], Eiichiro Ono[4], Honoo Satake[1] ([1]Suntory Foundation for Life Sciences, [2]Sch. Environ. Sci., The Univ. of Shiga Pref., [3]Grad. Sch. Life Environ. Sci., Osaka Pref. Univ., [4]Suntory Global Innovation Center (SIC) Ltd)
14:00	2pA04 Extracellular vesicle-mediated secretion of protochlorophyllide in the cyanobacterium *Leptolyngbya boryana* Kentaro Usui, Haruki Yamamoto, Takao Oi, Mitsutaka Taniguchi, Hitoshi Mori, Yuichi Fujita (Grad. Sch. Bioagr. Sci., Nagoya Univ)	2pB04 Ⓔ Gene-to-gene Spearman correlation using the sample principal component scores is a simple sample-balancing methodology for gene coexpression calculation Takeshi Obayashi[1], Yuichi Aoki[2] ([1]Grad. Sch. Info. Sci, Tohoku Univ., [2]ToMMo, Tohoku Univ.)	2pC04 Analysis for the mechanism of suppression of chloroplast development by novel BR signaling factor BPG4 Ryo Tachibana[1], Momo Marugami[2], Susumu Abe[2], Ayumi Yamagami[1], Syohei Nosaki[3], Takuya Miyakawa[4], Takehito Inaba[5], Minami Matsui[6], Tetsuo Kushiro[2], Tadao Asami[4], Kentaro Ifuku[7], Takeshi Nakano[1] ([1]Grad. Sch. Biostudies., Kyoto Univ., [2]Dept. Agri., Meiji Univ., [3]Sch. Life and Environmental sci., Tsukuba Univ., [4]Grad. Sch. Agri. Life Sci., Univ. Tokyo, [5]Dept. Agri. Univ., Miyazaki Univ., [6]RIKEN CSRS, [7]Grad. Sch. Agri., Kyoto Univ.)	2pD04 Secretion of saponins from roots and its effects on rhizosphere microbiota Masaru Nakayasu[1], Shinichi Yamazaki[2], Yuichi Aoki[2], Kazufumi Yazaki[1], Akifumi Sugiyama[1] ([1]Kyoto University, [2]Tohoku University Tohoku Medical Megabank Organization)
14:15	2pA05 *Synechocystis* sp. PCC6803 has a cold-sensitive elongation pathway from hypogeic acid to oleic acid Asuka Kobayashi[1], Nattiwong Pankasem[2], Kotaro Kobayashi[3], Florence Corellou[4], Iwane Suzuki[5] ([1]Sch. Life & Environ. Sci., Univ. Tsukuba, [2]Div. Biol. Sci., Univ. California, San Diego, USA, [3]Grad. Sch. Life & Environ. Sci., Univ. Tsukuba, [4]Lab. Biogenesis Membrane, CNRS-Univ. Bordeaux, France, [5]Fac. Life & Environ. Sci., Univ. Tsukuba)	2pB05 Exploration of the origin of ASYMMETRIC LEAVES2 (AS2) in genome database Hidekazu Iwakawa[1,2], Shoko Kojima[2], Michiko Sasabe[3], Shogo Matsumoto[1], Yasunori Machida[4], Chiyoko Machida[2] ([1]Grad. Sch. Bioagricultural Sci. Nagoya Univ., [2]Grad. Sch. Biosci. and Biotech., Chubu Univ., [3]Dep., Biol., Faculty of Agriculture and Life Sci., Hirosaki Univ., [4]Grad. Sch. Sci. Nagoya Univ.)	2pC05 Changes in morphology of Chlamydomonas chloroplasts depending on culture conditions Naoki Sato[1], Takashi Moriyama[1], Mayumi Wakazaki[2], Mayuko Sato[2], Kiminori Toyooka[2] ([1]University of Tokyo, Graduate School of Arts and Sciences, [2]RIKEN CSRS)	2pD05 Investigation of Brassica-specific volatile organic compounds in the soil of field-grown Komatsuna Mizuki Sano[1], Yusuke Aono[1], Takumi Sato[5], Hiroe Imai[6], Iwao Ohtsu[2], Naoto Nihei[7], Yasunori Ichihashi[5], Miyako Kusano[2,3,4] ([1]Deg. Prog. Life and Earth Sci, Univ. Tsukuba, [2]Dept. Life and Env. Sci, Univ. Tsukuba, [3]T-PIRC, Univ. Tsukuba, [4]CSRS, RIKEN, [5]BRC, RIKEN, [6]R&D Center for Tailor-Made-QOL, [7]Faculty of Food and Agri. Sci, Univ. Fukushima)

Room E	Room F	Room G	Room H	Room Y	Room Z	Time
Plant hormones/ Signaling molecules	Flowering/Clock	Environmental responses C	Vegetative growth			
2pE01 Brassinosteroids promote reestablishment of the stem cell niche in resected roots Naoki Takahashi, Masaaki Umeda (Grad. Sch. Sci. Tech., NAIST)	2pF01 Functional analysis on receiver-like domain of PRR7 that is implicated in the circadian clock in *Arabidopsis thaliana* Chiaki Teramae, Motohiro Ichiko, Takafumi Yamashino (Grad. Sch. Bioagr. Sci., Nagoya Univ.)	2pG01 Temperature variable MRI as a tool for exploring diversity of freezing behaviors in complex plant organs Masaya Ishikawa[1], T. Stait-Gardner[2], Hikaru Kubo[1], Norihisa Matsushita[1], Kenji Fukuda[1], W.S. Price[2] ([1]Grad. Sch. Agr Life Sci. Univ. Tokyo, [2]Western Sydney Univ.)	2pH01 Functional analysis of cytokinin in cell fate regulation of vascular stem cells Shunji Shimadzu[1,2], Alif Meem Nurani[1], Kazuki Yamada[3], Kyomi Shibata[3], Tomoyuki Furuya[2], Kyoko Ohashi-Ito[1], Kimitsune Ishizaki[2], Hidehiro Fukaki[2], Masashi Asahina[3,4], Hiroo Fukuda[5], Yuki Kondo[2] ([1]Grad. Sch. Sci., The Univ. Tokyo, [2]Grad. Sch. Sci., Kobe Univ., [3]Dept. Bisci., Teikyo Univ., [4]Adv. Instrum. Anal. Cent., Teikyo Univ., [5]Fac. Bioenv. Sci, KUAS)	Symposium S06 Chemical signals that control parasitism, symbiosis, defense, and infection in plants (13:15–16:15)	Symposium S07 A multifaceted approach to uncovering the mechanism and dynamics of the plant-microbe holobiont (13:15–16:15)	13:15
2pE02 Ⓔ Involvement of phytoene desaturase activity and auxin signaling for root-cut response in *Arabidopsis thaliana* Kang Xu[1], Emi Yumoto[2], Masashi Asahina[2], Ken-ichiro Hayashi[3], Takehide Kato[4], Miyo T. Morita[5], Hidehiro Fukaki[6], Masaaki K. Watahiki[1,7] ([1]Grad. Sch. Life., Univ. Hokkaido, [2]Dept. Biosci., Univ. Teikyo, [3]Dept. Biochem., Univ. Okayama of Science, [4]Div. Bio. Sci., Grad. Sch. Sci. Tech., NAIST, [5]NIBB, [6]Grad. Sch. Sci., Univ. Kobe, [7]Div. BioSci., Fac. Sci., Univ. Hokkaido)	2pF02 Analysis of maintenance mechanism of cellular circadian rhythms in *Arabidopsis* leaves at low temperature Shunji Nakamura, Tokitaka Oyama (Grad. Sch. Sci., Kyoto Univ.)	2pG02 Role of autophagy in cold stress response of *Arabidopsis thaliana* Akito Sato, Ryota Mihara, Yasuko Ito-Inaba, Takehito Inaba (Fac. Agr., Univ. Miyazaki)	2pH02 Research on the function of the circadian clock gene GI in vascular stem cell differentiation Takuma Arano[1], Haruka Uchimura[1], Hiroo Fukuda[3], Yuki Kondo[2] ([1]Grad. Sch. Sci., The Univ. Tokyo, [2]Grad. Sch. Sci., Kobe Univ., [3]Fac. Bioenv. Sci, KUAS)			13:30
2pE03 IAA-amino acid conjugation enzyme GH3 plays a fundamental role in IAA homeostasis Kosuke Fukui[1], Kazushi Arai[1], Kota Akamine[1], Yuki Aoi[2], Hiroyuki Kasahara[3,4], Ken-ichiro Hayashi[1] ([1]Okayama Univ. of Sci., [2]Uni. Grad. Sch. Agri. Sci., Tokyo Univ. of Agri. and Tech., [3]Grad. Sch. Agri., Tokyo Univ. of Agri. and Tech., [4]CSRS, Riken)	2pF03 Diel transcriptome of a short-day duckweed under three photoperiod conditions Tomoaki Muranaka (Fac. of Agri., Kagoshima Univ.)	2pG03 The Involvement of FLA8 in Cold Acclimation and Freezing Tolerance Yukino Shibasaki[1], Kim Johnson[2], Antony Bacic[2], Toshihisa Kotake[1], Daisuke Takahashi[1] ([1]Grad. Sch. Sci. Eng., Saitama Univ., [2]La Trobe Inst. Food Agr., La Trobe Univ.)	2pH03 The *fsp1/sur2* Mutation that Increases the Auxin Content Restores Lateral Root Formation in the *fwr/gnom* Mutant of *Arabidopsis thaliana* Chieko Goto[1], Akira Ikegami[1], Tatsuaki Goh[1,2], Hiroyuki Kasahara[3,4], Yuki Kondo[1], Kimitsune Ishizaki[1], Tetsuro Mimura[1,5,6], Hidehiro Fukaki[1] ([1]Grad. Sch. Sci., Kobe Univ., [2]Div. Biol. Sci., NAIST, [3]Grad. Sch. of Agri., Tokyo Univ. of Agri. and Tech., [4]RIKEN, CSRS, [5]Grad. Sch. Agri. Life Sci., Univ. Tokyo, [6]Col. Biosci. Biotech., National Cheng Kung Univ.)			13:45
2pE04 Analysis of JA-SA Dose-dependent phytohormone responses by large-scale transcriptome analysis in *Arabidopsis thaliana* Atsuki Tomita[1,2], Taro Maeda[2,3], Natsumi Mori-Moriyama[3], Yasuyuki Nomura[3], Yuko Kurita[3], Makoto Kashima[4], Masaru Tomita[1,2], Shigeyuki Betsuyaku[5], Atsushi J. Nagano[2,3,5] ([1]Dept. Environment & Info. Studies., Keio Univ., [2]IAB, Keio Univ., [3]Res. Inst. Food Agr., Ryukoku Univ., [4]Coll. Sci. Eng., Aoyama Gakuin Univ., [5]Fac. Agr., Ryukoku Univ.)	2pF04 The binding model for the period-lengthening molecule and its target Akari Maeda[2], Hiromi Matsuo[1], Kazuhiro Fujimoto[2,3], Toshinori Kinoshita[2,3], Junichiro Yamaguchi[4], Norihito Nakamichi[1] ([1]Grad. Sch. Bioagr., Nagoya Univ., [2]Grad. Sch. Science, Nagoya Univ., [3]ITbM, Nagoya Univ., [4]Facultiy Sci. Eng., Waseda Univ.)	2pG04 Analysis of regulatory mechanisms of cold-inducible gene expression mediated by clock-related transcription factors in Arabidopsis Satoshi Kidokoro[1], Izumi Konoura[1], Kentaro Hayashi[1], Fumiyuki Soma[1], Takamasa Suzuki[2], Kazuo Shinozaki[3], Kazuko Yamaguchi-Shinozaki[1,4] ([1]Grad. Sch. Agr. Life Sci., Univ. Tokyo, [2]Biosci. Biotech., Chubu Univ., [3]Center for Sustainable Resource Science, RIKEN, [4]Res. Inst. Agr. Life Sci., Tokyo Univ. Agr.)	2pH04 Functional Analysis of RLF, a Cytochrome b_5-like Heme Binding Protein, in Lateral Root Formation Kentaro Iwata[1], Chieko Goto[1], Kaisei Maruyama[2], Hinatamaru Fukumura[1], Yuki Kondo[1], Kimitsune Ishizaki[1], Hiroyuki Kasahara[3,4], Hidehiro Fukaki[1] ([1]Grad. Sch. of Sci., Kobe Univ, [2]Fac. of Agri., Tokyo Univ. of Agri. and Tech., [3]Grad. Sch. of Agri., Tokyo Univ. of Agri. and Tech., [4]RIKEN, CSRS)			14:00
2pE05 Effects of a novel compound that induce accumulation of both jasmonic acid and salicylic acid in Arabidopsis Shiori Matsumoto[1], Kentaro Namiki[1], Ryuhei Toya[1], Hiroki Kikuchi[1], Kentaro Maeda[1], Erika Nishida[1], Nobutaka Kitahata[1,2], Yuho Saito[1], Masataka Nakano[1], Taiki Funahashi[1], Yutaka Nakazawa[1], Kenji Hashimoto[1], Koji Kuramochi[1], Hiroshi Abe[3], Fuminori Takahashi[3,4], Tadao Asami[2], Seisuke Kimura[5], Kazuyuki Kuchitsu[1] ([1]Dept. Appl. Biol. Sci., Tokyo Univ. of Science, [2]Univ. of Tokyo, [3]RIKEN, [4]Dept. Biol. Sci. & Tech., Tokyo Univ. of Science, [5]Kyoto Sangyo Univ.)	2pF05 The analysis of quantitative regulation of proteins involved in temperature compensation of the plant circadian clock Akari Maeda[1], Hiromi Matsuo[2], Toshinori Kinoshita[1,3], Norihito Nakamichi[2] ([1]Grad. Sch. Sci., Nagoya Univ., [2]Grad. Sch. Agric., Nagoya Univ., [3]ITbM., Nagoya Univ.)	2pG05 [Cancelled]	2pH05 Transcriptomic Characterization of the Initial to Eraly Stages of Direct Shoot Regeneration in *Torenia fournieri* Hatsune Morinaka[1], Akihito Mamiya[2], Hiroaki Tamaki[3], Takamasa Suzuki[4], Momoko Ikeuchi[1,5], Akira Iwase[1], Tetsuya Higashiyama[3,6], Keiko Sugimoto[1], Munetaka Sugiyama[3] ([1]CSRS, RIKEN, [2]Dept. Biol., Grad. Sch. Sci., Kobe Univ., [3]Dept. Biol. Sci., Grad. Sch. Sci., Univ. Tokyo, [4]Dept. Biol. Chem., Coll. Biosci. Biotech., Chubu Univ., [5]Faculty of Sci., Niigata Univ., [6]ITbM, Nagoya Univ.)			14:15

Ⓔ=Presentation in English

● Day 2, Wed., March 23, PM (13:15–16:15)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Systems biology	Organelles/Cytoskeleton	Secondary (specialized) metabolism
14:30		2pB06 Data driven crop design technology Takashi Hirayama[1], Daisuke Saisho[1], Jun Ito[2], Koosuke Hattori[3], Satoshi Okada[1], Yoko Ikeda[1], Taizo Umezaki[3], Hiroyuki Tsuji[2], Keiichi Mochida[4] ([1]IPSR, Okayama Univ., [2]KIBR, YCU, [3]CSRS, RIKEN, [4]Dept. Tech., Chubu Univ.)	2pC06 Trial analyses of RNA editing with the targeted base editing method for the mitochondrial genome of *Arabidopsis thaliana* Issei Nakazato[1], Chang Zhou[1], Yoshiko Tamura[1], Reiko Masuda[1], Nobuhiro Tsutsumi[1], Mizuki Takenaka[2], Shin-ichi Arimura[1] ([1]Grad. Sch. of Agr. and Life Sci., Univ. of Tokyo, [2]Grad. Sch. of Sci., Kyoto Univ.)	
14:45		2pB07 Developmental state transition in the shoot apical meristem of barley Jun Ito[1], Yuko Nomura[1], Kotaro Takahagi[2], Satoshi Okada[3], Shuhei Kuge[1], Nao Sato[1], Shunichi Arai[1], Hiroki Matsumoto[1], Midori Sugimura[1], Midori Seki[1], Koosuke Hattori[4], Taizo Umezaki[4], Yoko Ikeda[3], Daisuke Saisho[3], Keiichi Mochida[2], Takashi Hirayama[3], Hiroyuki Tsuji[1] ([1]KIBR, YCU, [2]CSRS, RIKEN, [3]IPSR, Okayama Univ., [4]Dept. Tech., Chubu Univ.)	2pC07 Identification of a protein suppressing distortion of secondary cell wall patterns Takema Sasaki[1,2], Moe Yamada[3], Saku Kijima[1], Takeshi Higa[1], Mayuko Sato[4], Mayumi Wakazaki[4], Kiminori Toyooka[4], Yohei Kondo[5], Motosuke Tsutsumi[5,6], Kohei Otomo[5,6,7], Takashi Murata[8], Tomomi Nemoto[5,6,9,10], Yoshihisa Oda[1,2] ([1]NIG, Gene Funct., [2]SOKENDAI, Genetics, [3]Nagoya Univ, Biol. Sci., [4]RIKEN, CSRS, [5]ExCELLS, [6]NIPS, [7]Juntendo Univ., Grad. Sch. Med., [8]Kanagawa Inst. Tech., Applied Bio., [9]SOKENDAI, Physiol. Sci., [10]Hokkaido Univ., RIES)	
15:00		2pB08 Diversity of developmental trajectories in barley illustrated through deep phenotyping Keiichi Mochida[1,3,5], June-Sik Kim[1], Kotaro Takahagi[1,3], Asaka Kanatani[1], Komaki Inoue[1], Yukiko Uehara[1], Minami Shimizu[1], Daisuke Saisho[2], Jun Ito[3], Koosuke Hattori[4], Satoshi Okada[2], Yoko Ikeda[2], Taizo Umezaki[4], Hiroyuki Tsuji[3], Takashi Hirayama[2] ([1]CSSR, RIKEN, [2]IPSR, Okayama Univ., [3]KIBR, Yokohama City Univ., [4]Dept. of Technology, Chubu Univ., [5]School of Data and Information Sciences, Nagasaki Univ.)	2pC08 Role of the microtubule-associated protein CORD in Marchantia Takema Sasaki[1,2], Kimitsune Ishizaki[3], Hiroyasu Motose[4], Yoshihisa Oda[1,2] ([1]Gene Funct., NIG, [2]Genetics, SOKENDAI, [3]Grad. Sch. Sci., Kobe Univ., [4]Grad. Sch. Nat. Sci., Okayama Univ.)	
15:15		2pB09 Analysis of temperature dependency in JA/SA response using DeLTa-Seq, direct-lysate targeted RNA-Seq Makoto Kashima[1], Natsumi Mori-Moriyama[2], Yasuyuki Nomura[2], Shigeyuki Betsuyaku[3], Atsushi J. Nagano[3,4] ([1]Coll. Sci. Eng., Aoyama Gakuin Univ., [2]Res. Inst. Food Agr., Ryukoku Univ., [3]Fac. Agr., Ryukoku Univ., [4]IAB, Keio Univ.)		

Room E	Room F	Room G	Room H	Room Y	Room Z	Time
Plant hormones/ Signaling molecules	Flowering/Clock	Environmental responses C	Vegetative growth			
2pE06 Exploration of modified sites and analysis for molecular function in phosphorylation of BIL7 protein that promotes plant growth in brassinosteroid signaling Yusuke Nakamura[1], Tomoko Miyaji[2], Ayumi Yamagami[1], Akira Nozawa[3], Tatsuya Sawazaki[3], Kensuke Suzuki[2], Naoshi Dohmae[2], Takuya Miyagawa[4], Minami Matsui[2], Shozo Fujioka[2], Tadao Asami[4], Takeshi Nakano[1] ([1]Grad. Sch. Biostudies., Kyoto Univ., [2]RIKEN, CSRS, [3]Proteo-Science Center, Ehime Univ., [4]Grad. Sch. Appl. Biol. Chem., Univ. of Tokyo)	2pF06 Effect of solution pH on the protein-based circadian clock in cyanobacteria Kumiko Ito-Miwa[1,2], Yasuhiro Onoue[3], Takao Kondo[1], Kazuki Terauchi[3] ([1]Grad. Sch. Sci., Nagoya Univ., [2]Inst. Adv. Stud., Nagoya Univ., [3]Col. Life Sci., Ritsumeikan Univ.)	2pG06 Ⓔ Mechanical properties of Arabidopsis thaliana roots Marcel Pascal Beier[1], Yunshu Wang[2], Kyoko Miwa[4], Shumpei Hayashi[3], Hirotaka Hida[3], Toru Fujiwara[2] ([1]Faculty of Science/ Institute for the Advancement of Higher Education, Hokkaido University, [2]Department of Applied Biological Chemistry, Graduate School of Agricultural and Life Sciences, The University of Tokyo, [3]Department of Mechanical Engineering, Graduate school of Kobe university, [4]Division of Biosphere Science, Graduate School of Environmental Science, Hokkaido University)	2pH06 Ⓔ A possible function of WIND1 transcription factor as an epigenetic regulator Akira Iwase[1,2], Arika Takebayashi[1], Ayako Kawamura[1], Takamasa Suzuki[3], Keiko Sugimoto[1] ([1]RIKEN CSRS, [2]JST PRESTO, [3]Col. Biosci. Biotech., Chubu Univ.)	Symposium S06 Chemical signals that control parasitism, symbiosis, defense, and infection in plants (13:15–16:15)	Symposium S07 A multifaceted approach to uncovering the mechanism and dynamics of the plant-microbe holobiont (13:15–16:15)	14:30
2pE07 Structure determination of TGW6, which limits grain size in rice Tatsuki Akabane[1], Nobuhiro Suzuki[2], Wataru Tsuchiya[2], Takuya Yoshizawa[3], Hiroyoshi Matsumura[3], Etsuko Katoh[2], Naoki Hirotsu[1] ([1]Graduate School of Life Sciences, Toyo Univ., [2]Research Center for Advanced Analysis, NARO, [3]College of Life Sciences, Ritsumeikan Univ.)		2pG07 Functional analysis of non-specific phospholipase C5 in the membrane lipid remodeling during phosphate starvation in arabidopsis Honami Watanabe[1], Yuta Ihara[1], Yushi Yoshitake[2], Hiroyuki Ohta[1], Mie Shimojima[1] ([1]School of Life Science and Technology, Tokyo Institute of Technology, [2]Department of Life Science, School of Agriculture, Meiji University)	2pH07 Ⓔ Photomorphogenic regulators PIF3 and HY5 antagonistically modulate plant regeneration in response to light signals Yu Chen[1,2], David Favero[2], Ayako Kawamura[2], Keiko Sugimoto[1,2] ([1]Grad. Sch. Sci., Univ. Tokyo, [2]CSRS, RIKEN)			14:45
2pE08 Secreted peptide AT32 inhibits brassinosteroid signaling via binding to brassinosteroid receptor Takayuki Kondo[1], Tomoyuki Takeda[1], Iwai Ohbayashi[1], You-wang Kim[1], Masanori Okamoto[2], Yutaka Kodama[2], Takeshi Yoshizumi[3], Takeshi Haraguchi[4], Mieko Higuchi-Takeuchi[3], Minami Shimizu[3], Mika Nomoto[5], Yasuomi Tada[5], Yusuke Jikumaru[6], Yuji Kamiya[3], Kazuo Shinozaki[3], Keiko Kuwata[7], Shunsuke Oishi[7], Junichi Taira[1], Hiroshi Sakamoto[1], Takahiro Kusakabe[8], Jaeman Lee[8], Kousuke Hanada[1,3] ([1]Dept of Biosci. & Bioinform., Kyushu Inst. Technol., [2]Center for Biosci. Res. & Edu., Utsunomiya Univ., [3]RIKEN CSRS, [4]Grad. Sch. Sci., Chiba Univ., [5]Center for Gene Res., Nagoya Univ., [6]Agilent Technologies, [7]ITbM, Nagoya Univ., [8]Grad. Sch. Agr., Kyushu Univ.)		2pG08 Autophagy triggered by ER stress is an important phosphate salvage system under the early phase of phosphate starvation Yushi Yoshitake[1], Daiki Shinozaki[2], Kohki Yoshimoto[1,2] ([1]Life sci. Agri. Meiji univ., [2]Grad. Sch. Agri., Meiji univ.)	2pH08 The single MYB gene *GROM* regulates gemma cup formation of the liverwort *Marchantia polymorpha* Hirotaka Kato[1], Yukiko Yasui[1,2], Yuki Kondo[1], Hidehiro Fukaki[1], Tetsuro Mimura[1,3,4], Kimitsune Ishizaki[1] ([1]Grad. Sch. Sci., Kobe Univ., [2]Grad. Sch. Biostudies, Kyoto Univ., [3]Grad. Sch. Agri. Life Sci., Univ. Tokyo, [4]Col. Biosci. Biotech., National Cheng Kung Univ.)			15:00
2pE09 Analysis for plant progesterone receptor candidate *AmPR1* in plant growth and abiotic stress resistance Rira Daibo[1], Ayumi Yamagami[1], Ayaka Uebayashi[2,3], Setsuko Shimada[2], Mayumi Iino[2], Mayumi Okamoto[4], Shun Kobayashi[4], Akinori Matsui[4], Isao Shimizu[4], Yusuke Kakei[5], Yukihisa Shimada[5], Masaaki Sakuta[3], Tadao Asami[6], Takao Yokota[7], Takeshi Nakano[1] ([1]Grad. Biost., Kyoto Univ., [2]CSRS, RIKEN, [3]Ochanomizu Univ., [4]Grad. Sci. Engi., Waseda Univ., [5]KIBR, Yokohama City Univ., [6]Dept. Appl. Biol. Chem., Tokyo Univ., [7]Dept. Biosci., Teikyo Univ.)		2pG09 Ⓔ An environmental response on root hairs under phosphate starvation in Arabidopsis Michitaro Shibata[1], Ayako Kawamura[1], Keiko Sugimoto[1,2] ([1]RIKEN CSRS, [2]Dep. Biol. Sci., Univ. Tokyo)	2pH09 Polarity switch of receptor-like kinases Akira Yoshinari[1], Reika Isoda[1], Keiko Kuwata[1], Wolf Frommer[1,2,3], Masayoshi Nakamura[1] ([1]Institute of Transformative Bio-Molecules (WPI-ITbM), Nagoya University, [2]Heinrich Heine University Düsseldorf, [3]Max Planck Institute for Breeding Research, Köln)			15:15

Ⓔ=Presentation in English

● Day 2, Wed., March 23, PM (13:15–16:15)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Systems biology	Organelles/Cytoskeleton	Secondary (specialized) metabolism
15:30		2pB10 Ⓔ Multi-omics analysis highlighted important factors for parthenocarpy for tomato fruits during early fruit set Kanjana Worarad[1], Miyako Kusano[1,2,3], Atsushi Fukushima[3,5], Ken Kamiya[1], Yozo Okazaki[3,4], Yasuhino Higashi[3], Ryo Nakabayashi[3], Makoto Kobayashi[3], Yuka Mitani[3], Tetsuya Mori[3], Tomoko Nishizawa[3], Kazuki Saito[3], Shuhei Hao[1], Yoshihito Shinozaki[1], Tohru Ariizumi[1,2], Hiroshi Ezura[1,2] ([1]Graduate School of Life and Environmental Science, Tsukuba-Plant Innovation Research Center (T-PIRC), University of Tsukuba, [2]Tsukuba Plant Innovation Research Center, University of Tsukuba, [3]RIKEN Center for Sustainable Resource Science, [4]Graduate School and Faculty of Bioresources, Mie University, [5]Graduate School of Life and Environmental Sciences, Kyoto Prefectural University)		
15:45				
16:00				

Room E	Room F	Room G	Room H	Room Y	Room Z	Time
Plant hormones/ Signaling molecules	Flowering/Clock	Environmental responses C	Vegetative growth			
2pE10 Ⓔ Molecular Mechanisms of Host Tropism in Orobanchaceae Parasitic Plants Satoshi Ogawa[1], Songkui Cui[2], Satoko Yoshida[2,3], Ken Shirasu[1,4] ([1]CSRS, RIKEN, [2]Grad. Sch. of Sci. Tech., NAIST, [3]JST, PRESTO, [4]Grad. Sch. of Sci., Univ. of Tokyo)		2pG10 Ⓔ Involvement of mechanosensitive channels of a stem parasitic plant, *Cuscuta campestris*, in the initiation of pre-haustorium Jihwan Park, Koh Aoki (Grad. Sch. Life Environ. Sci., Osaka Pref. Univ)	2pH10 Transcriptional network to synchronize alteration in the developing lateral root primordia (LRP) and LRP-overlay cells Kosuke Mase[1], Honomi Mizuno[1], Koki Tomida[1], Keigo Nakamura[1], Nanari Furukawa[1], Shiho Ueno[1], Takamasa Suzuki[2], Atsushi Morikami[1], Hironaka Tsukagoshi[1] ([1]Faculty of Agriculture, Meijo University, [2]College of Bioscience and Biotechnology, Chubu University)	Symposium S06 Chemical signals that control parasitism, symbiosis, defense, and infection in plants (13:15–16:15)	Symposium S07 A multifaceted approach to uncovering the mechanism and dynamics of the plant-microbe holobiont (13:15–16:15)	15:30
2pE11 Analysis of ectopic vascular cell differentiation regulated by Arabidopsis ANAC and DOF transcription factors Ryosuke Sato[1], Keita Matsuoka[1], Kyomi Shibata[1], Yuki Kondo[2], Shinobu Satoh[3], Masashi Asahina[1,4] ([1]Dept. Biosci., Teikyo Univ., [2]Grad. Sch. Sci., Kobe Univ., [3]Life & Environ Sci., Univ. Tsukuba, [4]Adv. Instrum. Anal., Teikyo Univ.)			2pH11 Mechanism of root development by VLCFA responsive transcription factor Yuta Uemura[1], Saori Kimura[1], Tomomichi Ota[1], Takamasa Suzuki[2], Atsushi Morikami[1], Hironaka Tsukagoshi[1] ([1]Grad. Sch. Agr., Meijo Univ., [2]College Biosci. Biotech., Chubu Univ.)			15:45
2pE12 Role of R1R2R3-type Myb transcription factors in auxin-mediated control of the cell cycle Miyabi Arashidani, Ye Zhang, Naoki Takahashi, Masaaki Umeda (Grad. Sch. Sci. Tech., NAIST)			2pH12 Analysis of the mechanism of lateral root development via circadian rhythm modulation induced by very long chain fatty acids (VLCFAs) Saori Kimura[1], Akari Maeda[2], Yuta Uemura[1], Tomomichi Ota[1], Kosuke Mase[1], Yuki Komine[1], Takamasa Suzuki[3], Atsushi Morikami[1], Norihito Nakamichi[2], Hironaka Tsukagoshi[1] ([1]Meijo Univ., [2]Nagoya Univ., [3]Chubu Univ.)			16:00

Ⓔ=Presentation in English

● Day 3, Thu., March 24, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D
	Environmental responses of photosynthesis	Biomembrane/ Ion and solute transport	Cell wall	New technology
09:00	3aA01 NADP pool size regulation by light-responsive reversible phosphorylation between $NADP^+$ and NAD^+ Shin-nosuke Hashida[1], Chinami Ishiyama[2], Yusuke Fukuda[2], Yuito Hamazaki[3], Maki Kawai-Yamada[4] ([1]Bio. Environ. Chem., CRIEPI, [2]CERES, Co., [3]Plant., Tokyo Biotech. Col., [4]Grad. Sch. Sci. Eng., Saitama Univ.)	3aB01 Functional Analyses of the Two Distinctive Types of the Two-Pore Channels (TPCs) and the Slow Vacuolar Channel in *Marchantia polymorpha* and their Evolution in Plants Kazuyuki Kuchitsu[1,2], Kenji Hashimoto[1,2], Mateusz Koselski[3], Shoko Tsuboyama[1], Kazimierz Trębacz[3] ([1]Dept. Appl. Biol. Sci., Tokyo Univ. of Science, [2]Interdiscipl. Agr. Sci. Tech. Course, Tokyo Univ. of Science, [3]Maria Curie-Sklodowska Univ.)	3aC01 Regulation of secondary cell wall patterns in protoxylem vessels Takeshi Higa[1], Yohei Kondo[2], Taku Demura[3], Hiroo Fukuda[4], Yoshihisa Oda[1,5] ([1]NIG, Gene Funct., [2]ExCELLS, [3]NAIST, CDG, [4]KUAS, Bioenv. Sci., [5]SOKENDAI, Genetics)	3aD01 Deep live-cell imaging of plants with adaptive optics microscope Shuto Hatsumi[1], Masayuki Hattori[2], Takeshi Kurokura[1], Yutaka Kodama[1], Yutaka Hayano[2], Hirotsugu Yamamoto[1], Yosuke Tamada[1] ([1]Grad. Sch. Reg. Dev. Creat., Utsunomiya Univ., [2]Adv. Tech. Cntr., Natl. Astron. Obs. Jpn.)
09:15	3aA02 Physiological Analysis of the Anti-sigma Factor Ortholog PmgA and the Anti-sigma Antagonist Ortholog Ssr1600 in the Cyanobacterium *Synechocystis* sp. PCC 6803 Shogo Tachibana, Yuji Takahashi, Yukako Hihara (Grad. Sch. Sci. Eng., Saitama Univ.)	3aB02 Ⓔ Mapping and characterization of QTLs for sorghum seed ionome reveals differential cadmium accumulation in a recombinant inbred population Fiona W. Wacera[1], Kiyoshi Yamazaki[2], Hideki Takanashi[2], Toru Fujiwara[2], Nobuhiro Tsutsumi[2], Wataru Sakamoto[1] ([1]Okayama University, Institute of Plant Science and Resources, [2]The University of Tokyo, Graduate School of Agricultural and Life Sciences)	3aC02 Importance of plasma membrane integrity for secondary cell wall formation in xylem vessel cells Eri Kamon[1], Chihiro Noda[2], Taku Demura[2,3], Misato Ohtani[1,2] ([1]Grad. Sch. Front. Sci., Univ. Tokyo, [2]Grad. Sch. Sci. Tech., NAIST, [3]NAIST, CDG)	3aD02 Multi-imaging analysis based on fluorescence lifetime of fluorescent proteins Tsuyoshi Aoyama[1], Nagisa Sugimoto[1], Yoshikatsu Sato[1,2] ([1]ITbM, Nagoya Univ., [2]Grad. Sch. Sci., Nagoya Univ.)
09:30	3aA03 Function and role of molecular hydrogen in *Synechosystis* sp. PCC6803 Yuta Asano, Hisataka Ohta, Tatsuya Tomo (Grad. Sch. Sci, Tokyo University of Science)	3aB03 Analyses of stomatal closure mediated by ALMT-type malate transporters Takayuki Sasaki, Michiyo Ariyoshi, Yoko Yamamoto, Izumi C. Mori (IPSR, Okayama Univ.)	3aC03 The role of a cell wall-related gene as a putative xylem transport modifier in drought response Satoshi Endo[1], Hiroo Fukuda[2] ([1]Inst. Interdiscip. Res., Kyoto Univ. Adv. Sci., [2]Grad. Sch. Bioenviron. Sci., Kyoto Univ. Adv. Sci.)	3aD03 Very fast and highly efficient base editing method for *Arabidopsis* Kenta Katayama, Jun Teramoto, Ken-ichiro Taoka, Keiji Nishida, Akihiko Kondo (Eng. Biol. Res. Ctr., Kobe Univ.)
09:45	3aA04 "Verification of the" adaxial and abaxial axis "of C4 plant leaves that change in accord with the amount of light" Saki Ueda[1], Yuuki Nakamura[2], Mao Fujiyoshi[2], Tsuyoshi Furumoto[1,2] ([1]Grad. Sch. Agr. Ryukoku. Univ, [2]Facu. Agr. Ryukoku. Univ)	3aB04 Involvement of PYL5 and PYL8 ABA receptors on methyl jasmonate-induced stomatal closure Ye Yin[1,2], Takayuki Sasaki[3], Yoshimasa Nakamura[1], Shintaro Munemasa[1], Yoshiyuki Murata[1], Izumi C. Mori[3] ([1]Grad. Sch. Env. Life, Okayama Univ., [2]Qingdao Univ. Sci. Tech., [3]IPSR, Okayama Univ.)	3aC04 Boron-dependent translation of a putative Golgi-localized methyltransferase and its role in boron deficient environments Yuka Watanabe, Yasunori Chaki, Kyoko Miwa (Graduate School of Env. Science, Hokkaido Univ.)	3aD04 Ⓔ Targeted base editing in the mitochondria genome of *Arabidopsis thaliana* Chang Zhou[1], Issei Nakazato[1], Yoshiko Tamura[1], Nobuhiro Tsutsumi[1], Mizuki Takenaka[2], Shin-ichi Arimura[1] ([1]Graduate School of Agricultural and Life Sciences, University of Toky, [2]Graduate School of Science, Kyoto University)
10:00	3aA05 Effects of high-light acclimation on the repair of photosystem II in each phyllotaxis in *Arabidopsis thaliana* Mizuki Kitamura[1], Azusa Shinjo[2], Yoshitaka Nishiyama[2] ([1]Undergrad. Sch. Sci., Saitama Univ., [2]Grad. Sch. Sci. Eng., Saitama Univ.)	3aB05 Ⓔ A novel protein, DISMO1, regulates the Mo distribution in the rice plant Prashant Kandwal, Toru Fujiwara, Takehiro Kamiya (The University of Tokyo)	3aC05 Glucosylceramide is important for plant growth under low boron conditions Minoru Nagano[1], Rina Komiyama[1], Aoi Yasui[1], Tomoya Matsuura[1], Toshiki Ishikawa[2], Yuto Takenaka[1], Takeshi Ishimizu[1], Maki Kawai-Yamada[2], Yoichiro Fukao[1] ([1]Col. Life Sci., Ritsumeikan Univ., [2]Grad. Sch. Sci. Eng., Saitama Univ.)	3aD05 In vivo generation of extrachromosomal linear DNAs as a basis of the constitutive approach for their cellular function Koh Aoki, Atsuya Mitsuda (Osaka Pref. Univ.)

Room E	Room F	Room G	Room H	Room Y	Room Z	Time
Epigenetic regulation		Environmental responses A	Vegetative growth			
3aE01 Ⓔ Characterization of *Flowering locus C* season-meter in a *Wasabi japonica natural* population Yoshikazu Endo[1], Kyoko Yamane[2], Haruki Nishio[3], Francesca Clarissa[4], Kentaro Yano[5], Hiroshi Kudoh[6], Deiana Buzasu[4] ([1]Mountain Science Center of University of Tsukuba, Ikawa Forest Station, [2]Gifu University, Faculty of Applied Biological Sciences, [3]The Center for Data Science Education and Research Shiga University, [4]Tsukuba-Plant Innovation Center and Faculty of Life and Environmental Sciences, University of Tsukuba, [5]School of Agriculture, Meiji University, [6]Center for Ecological Research, Kyoto University)		3aG01 Effects of anesthesia on the wound-responsive gene and phytohormone, graft union of plant Sakuya Hirayama[1], Yushuke Abe[2], Ryosuke Satoh[2], Kyomi Shibata[3], Emi Yumoto[3], Koji Miyamoto[1,2], Ken Yokawa[4], Shinobu Satoh[5], Masashi Asahina[1,2,3] ([1]Grad. Sch. Sce. & Eng., Teikyo Univ., [2]Dept. Biosci., Teikyo Univ., [3]Adv. Instrum. Anal., Teikyo Univ., [4]Dept. Eng., Kitami Tech Univ., [5]Life & Environ Sci., Univ. Tsukuba)	3aH01 Analysis of target proteins for a stomatal-increasing compound Chatty Ayami Nakagawa[1], Keiko Kuwata[1], Shuya Yamada[1], Gregory Perry[1], Tsuyoshi Hirota[1], Ayato Sato[1], Naoyuki Uchida[2], Akie Shimotohno[1], Kenichiro Itami[1], Kei Murakami[3], Keiko Torii U.[1,4,5] ([1]ITbM, Nagoya Univ., [2]Center for Gene Res., Nagoya Univ., [3]School of Sci., Kwansei Gakuin Univ., [4]Dep. of Mol. Biosci., Univ. Texas at Austin, [5]Howard Hughes Medical Institute)		The 18th Database Workshop (9:00–12:00)	09:00
3aE02 Combinations of maternal-specific repressive epigenetic marks in the endosperm control seed dormancy Hikaru Sato[1,3], Juan Santos-González[2], Claudia Köhler[1,2] ([1]Dept. of Plant Biology, Swedish University of Agricultural Sciences, [2]Max Planck Institute of Molecular Plant Physiology, [3]Current address: Dept. of Integrated Biosciences, University of Tokyo)		3aG02 Oxidative Regulation of Chloroplast Proteins by Thioredoxin and Thioredoxin-Like Proteins in *Arabidopsis thaliana* Yuka Fukushi[1,2], Yuichi Yokochi[1,2], Ken-ichi Wakabayashi[1,2], Keisuke Yoshida[1,2], Toru Hisabori[1,2] ([1]Laboratory for Chemistry and Life Science, Institute of Innovative Research, Tokyo Institute of Technology, [2]School of Life Science and Technology, Tokyo Institute of Technology)	3aH02 Investigation of Molecular Mechanisms of Meristematic Activity That Enables Indeterminate Leaf Growth Yasutake Moriyama, Hiroyuki Koga, Hirokazu Tsukaya (Grad. Sch. of Sci., Univ. of Tokyo)			09:15
3aE03 Ⓔ A New Concept of Grafting on Drought-Stress Tolerance in Tomato Plants Maria Isabel Fuentes Merlos[1], Masaru Bamba[1], Makoto Endo[2], Shusei Sato[1], Atsushi Higashitani[1] ([1]Grad. Sch. Life Sci., Tohoku Univ., [2]Takii Co LTD)		3aG03 Oxidative Deactivation of Chloroplast ATP Synthase by Thioredoxin-Like Proteins Takatoshi Sekiguchi[1,2], Keisuke Yoshida[1,2], Ken-ichi Wakabayashi[1,2], Toru Hisabori[1,2] ([1]Laboratory for Chemistry and Life Science, Institute of Innovative Research, Tokyo Institute of Technology, [2]School of Life Science and Technology, Tokyo Institute of Technology)	3aH03 A bHLH transcription factor module controls setal development in the sporophyte of *Marchantia polymorpha* Kenta Moriya[1], Jeanne Loue-Manifel[2,3], Ryuichi Nishihama[4,5], Yoshito Oka[1], Tomonao Matsushita[1], Gwyneth Ingram[2], Justin Goodrich[3], Takayuki Kohchi[4], Tomoo Shimada[1] ([1]Grad. Sch. Sci., Kyoto Univ., [2]RDP, ENS-Lyon, [3]Inst. of Mol. Plant Sci., Univ. of Edinburgh, [4]Grad. Sch. Biostudies, Kyoto Univ., [5]Dept. Appl. Biol. Sci., Tokyo Univ. of Sci.)			09:30
3aE04 Auxin-mediated regulation of genome integrity Shiori S. Aki, Masaaki Umeda (Graduate School of Science and Technology, Nara Institute of Science and Technology)		3aG04 Ⓔ Carbonyl scavenger dipeptides mitigate salt stress in plants Most Sharmin Sultana[1], Jun'ichi Mano[2] ([1]Tottori University, [2]Yamaguchi University)	3aH04 Investigation of the action mechanism of Bubblin, a small compound that perturbs stomatal development Kazuaki Murakami[1], Sintaro Anzai[1], Yumiko Sakai[1], Kentaro Tamura[2], Keisuke Matsuda[3], Toshiro Imai[3], Kento Okoshi[3], Yasuhiro Sato[4], Atsushi J. Nagano[5,6], Yoshito Oka[1], Tomonao Matsushita[1], Tomoo Shimada[1] ([1]Grad. Sch. Sci., Kyoto Univ., [2]Sch. Food & Nutritional Sci., Univ. Shizuoka, [3]Department of Applied Chemistry and Bioscience, Chitose Institute of Science and Technology, [4]IEU, University of Zurich, [5]Faculty of Agriculture, Ryukoku Univ., [6]Institute for Advanced Biosciences, Keio Univ.)			09:45
3aE05 Analysis of chromatin crosstalk involved in *de novo* formation of the CENH3 mark during *Arabidopsis* zygote development Shiori Nagahara[1], Tetsuya Higashiyama[1,2,3], Frederic Berger[4], Hidenori Takeuchi[1,5] ([1]ITbM, Nagoya Univ., [2]Grad. Sch. Sci., Nagoya Univ., [3]Grad. Sch. Sci., Univ. Tokyo, [4]GMI, [5]Inst. Adv. Res., Nagoya Univ.)		3aG05 Functional analysis of the transcriptional regulation of the antioxidant enzyme by ethanol in plants under salinity stress Kaori Sako[1,2], Akihiro Matsui[2], Maho Tanaka[2], Ryutaro Mano[1], Sumire Fujiwara[3], Nobutaka Mitsuda[3], Masahiro Tamoi[1], Motoaki Seki[2] ([1]Dep. Adv. Blosci., Kindai Univ., [2]CSRS, RIKEN, [3]Bioprod. Res. Inst., AIST)	3aH05 A novel mechanism underlying columella stem cell maintenance in *Arabidopsis* Miho Kihira[1], Teruki Sugiyama[1,2], Chikage Umeda-Hara[1], Masaaki Umeda[1] ([1]Grad. Sch. Sci. Tech., NAIST, [2]CSRS, RIKEN)			10:00

Ⓔ=Presentation in English

● Day 3, Thu., March 24, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D
	Environmental responses of photosynthesis	Biomembrane/ Ion and solute transport	Cell wall	New technology
10:15	3aA06 Roles of the extrinsic proteins of photosystem II in photoinhibition during high-temperature acclimation in *Synechocystis* sp. PCC 6803 Kazaha Izaki, Yoshitaka Nishiyama (Grad. Sch. Sci. Eng., Saitama Univ.)	3aB06 Evaluation of Root Sodium Exclusion Ability in Plants with Tissue-specific Expression of SOS1 Using Real-time Radioisotope Imaging Mio Nagoya[1], Takaaki Ogura[1], Ryohei Sugita[2], Natsuko I. Kobayashi[1], Tomoko M. Nakanishi[1,3], Keitaro Tanoi[1] ([1]Grad. Sch. Agric. Life Sci., Univ. Tokyo, [2]Radioisotope Research Cent., Nagoya Univ., [3]Hoshi Univ.)	3aC06 Ⓔ The ZHOUPI/ICE1 transcription factors control programmed cell death and formation of a novel water conducting tissue in the liverwort *Marchantia polymorpha* Yen-Ting Lu[1,2], Jeanne Loue-Manifel[2,3], Norbert Bollier[4], Ryuichi Nishihama[5], Takayuki Kohchi[5], Moritz Nowack[6], Gwyneth Ingram[3], Justin Goodrich[2] ([1]Grad. Sch. BioSci., NAIST, [2]IMPS, University of Edinburgh, [3]CNRS, ENS de Lyon, [4]INRAE, Université de Bordeaux, [5]Grad. Sch. Biostudies, Kyoto University, [6]VIB-UGent Center)	3aD06 Fusion peptide-mediated plastid transformation of tobacco, rice, and kenaf Masaki Odahara[1], Yoko Horii[1], Jun Itami[1], Yuki Negishi[1], Keiji Numata[1,2] ([1]Biomacromolecules Res. Team, Riken, [2]Dept. Eng., Kyoto Univ.)
10:30	3aA07 Chilling-stress torelance and P700 oxidation in photosystem I Ko Takeuchi[1], Yufen Che[1], Minoru Kumazawa[1], Takeshi Nakano[1], Chikahiro Miyake[2], Kentaro Ifuku[3] ([1]Grad. Sch. Biostudies, Univ. Kyoto, [2]Grad. Sch. Agri., Univ. Kobe, [3]Grad. Sch. Agri., Univ. Kyoto)	3aB07 Multiple motifs are required for the polar localization of silicon transporter Lsi1 in rice Noriyuki Konishi, Jian Feng Ma (Okayama Univ. IPSR)	3aC07 Changes in cotyledon shape and pavement cell morphology in *RIC1*-overexpressos Kotomi Kikukawa[1], Kouichi Soga[2], Hisako Imamura[3], Toshihisa Kotake[4], Takumi Higaki[1] ([1]Grad. Sch. Sci. Tech., Univ. Kumamoto, [2]Grad. Sch. Sci., Univ. Osaka City, [3]Grad. Sch. Med. Sci., Univ. Kyushu, [4]Grad. Sch. Sci. Eng., Univ. Saitama)	
10:45	3aA08 Changes in intracellular redox state by addition of amino acids in cyanobacteria Yuma Ito, Kintake Sonoike (Waseda University)	3aB08 Ⓔ Regulation mechanism of boron uptake in rice Sheng Huang, Noriyuki Konishi, Naoki Yamaji, Namiki Mitani-Ueno, Jian Feng Ma (Institute of Plant Science and Resources, Okayama University)	3aC08 Effect of β-1,4-glucanase overexpression or exogenous treatment in grafting Yaichi Kawakatsu[1], Michitaka Notaguchi[1,2,3] ([1]Bioscience and Biotechnology Center, Nagoya University, [2]Graduate School of Bioagricultural Sciences, Nagoya University, [3]Institute of Transformative Bio-Molecules, Nagoya University)	
11:00	3aA09 Ⓔ Functional interaction between Cystathionine-β-synthase X proteins and NADPH-thioredoxin reductase C in *Arabidopsis thaliana* Minh Chau Tran[1,2], Shouko Mihara[1,2], Ken-ichi Wakabayashi[1,2], Keisuke Yoshida[1,2], Toru Hisabori[1,2] ([1]Laboratory for Chemistry and Life Science, Institute of Innovative Research, Tokyo Institute of Technology, [2]School of Life Science and Technology, Tokyo Institute of Technology)	3aB09 A tonoplast-localized magnesium transporter is involved in stomatal opening in Arabidopsis Shin-ichiro Inoue[1], Maki Hayashi[1], Sheng Huang[2], Kengo Yokosho[2], Eiji Gotoh[3], Shuka Ikematsu[4], Masaki Okumura[1], Takamasa Suzuki[5], Toshinori Kinoshita[1,4], Jian Feng Ma[2] ([1]Grad. Sch. Sci., Nagoya Univ., [2]IPSR., Okayama Univ., [3]Grad. Sch. Agric., Kyushu Univ., [4]ITbM., Nagoya Univ., [5]Col. Biosci. Biotechnol., Chubu Univ.)	3aC09 Studies on graft-induced Germin-Like Protein family genes Moe Mori[1], Ken-ichi Kurotani[2], Michitaka Notaguchi[1,2,3] ([1]Graduate School of Bioagricultural Sciences, Nagoya University, [2]Bioscience and Biotechnology Center, Nagoya University, [3]Institute of Transformative Bio-Molecules, Nagoya University)	
11:15	3aA10 The amino acid substitution of PETC-Pro171-Leu stimulates the electron transfer suppression in the cytochrome b_6f under acidic lumenal conditions in the green alga *Chlamydomonas reinhardtii* Shin-Ichiro Ozawa[1], Felix Buchert[2], Ruby Reuys[2], Michael Hippler[1,2], Yuichiro Takahashi[3] ([1]IPSR, Okayama Univ., [2]IPBB, Munster Univ., [3]RIIS, Okayama Univ.)	3aB10 Effect of Sulfate and Magnesium on the phosphate-uptake in the cyanobacterium *Synechocystis* sp. PCC 6803 Jinwoong Lee[1], Yasushi Iwata[2], Yuji Suzuki[3], Iwane Suzuki[4] ([1]Grad. Sch. Life Environ. Sci., Univ. Tsukuba, [2]Res. Inst. Adv. Elect. Photon., Natl. Inst. Adv. Ind. Sci. Tech., [3]Taiyo Service, [4]Fac. Life Environ. Sci., Univ. Tsukuba)	3aC10 Ⓔ Xylem formation enhances scion growth of *Nicotiana* interfamily grafting Chaokun Huang[1], Ken-ichi Kurotani[2], Ryo Tabata[1], Michitaka Notaguchi[1,2,3] ([1]Grad. Sch. Agr., Univ. Nagoya, [2]Bioscience and Biotechnology Center, Univ. Nagoya, [3]Institute of Transformative Bio-Molecules, Univ. Nagoya)	
11:30		3aB11 The Role of Casparian Strips in the High Boron Tolerance in Arabidopsis Keita Muro, Jio Kamiyo, Junpei Takano (Grad. Sch. Life and Env., Osaka Pref. Univ.)	3aC11 Ⓔ Chemical screening to identify graft promoting molecules in Fabaceae Qianqian Luo[1], Xueyao Shu[1], Yaichi Kawakatsu[2], Ryoko Morinobe[1], Lalita Jantean[1], Hejin Son[1], Ayato Sato[3], Ken-ichi Kurotani[2], Michitaka Notaguchi[1,2,3] ([1]Grad. Sch. Bioagri-Sci., Univ. Nagoya, [2]Bioscience and Biotechnology Center, Univ. Nagoya, [3]Institute of Transformative Bio-Molecules(ITbM), Univ. Nagoya)	
11:45		3aB12 Identification of the Si transporter Lsi3 involved in efficient xylem loading of Si in rice roots Sheng Huang[1], Naoki Yamaji[1], Gen Sakurai[2], Namiki Mitani-Ueno[1], Noriyuki Konishi[1], Jian Feng Ma[1] ([1]IPSR, Okayama Univ., [2]NARO (NIAES))		

Room E	Room F	Room G	Room H	Room Y	Room Z	Time
Epigenetic regulation		Environmental responses A	Vegetative growth			
3aE06 Ⓔ Proteolysis of histone methyltransferases controls cell cycle progression in *Arabidopsis* Kar Yee Moo[1], Akiko Masada[1], Haruka Manabe[1], Hiromoto Takatsuka[2], Shiori S. Aki[1], Masaaki Umeda[1] ([1]Graduate School of Science and Technology, Nara Institute of Science and Technology, [2]School of Biological Science and Technology, College of Science and Engineering, Kanazawa University)		3aG06 Oxidative stress-responsive regulation of phage-like particle GTA-mediated gene transfer in purple photosynthetic bacterium *Rhodobacter capsulatus* Tohma Aritoshi, Takayuki Shimizu, Tatsuru Masuda (Grad. Sch. Arts and Sci., Univ. Tokyo)	3aH06 Negative control of the *ATML1* gene during epidermal cell specification Shinobu Takada[1], Gerd Jürgens[2], Hiroyuki Iida[3] ([1]Dept. Biol. Sci., Grad. Sch. Sci., Osaka Univ, [2]ZMBP, University of Tübingen, [3]Institute of Biotechnology, HiLIFE, University of Helsinki)		The 18th Database Workshop (9:00–12:00)	10:15
3aE07 Redundant and specific roles of DNA demethylase family members in regulating the DNA methylome and pathogen resistance Daisuke Miki (Shanghai Center for Plant Stress Biology, CAS)		3aG07 Fluctuation of copy number of mitochondrial DNA may regulate their gene-expression levels in *Arabidopsis thaliana* Hiroki Ayabe[1], Atsushi Toyoda[2], Akitoshi Iwamoto[3], Nobuhiro Tsutsumi[1], Shin-ichi Arimura[1] ([1]Grad. Sch. of Agri. and Life Sci., Univ. Tokyo, [2]Department of Genomics and Evolutionary Biology, National Institute of Genetics, [3]Fac. of Sci., Univ. Kanagawa)	3aH07 Ⓔ A hypothesis on the evolution of meristem zonation by CLE gene duplication Yuki Hirakawa (Grad. Sch. Sci., Gakushuin Uni.)			10:30
3aE08 Elucidation of the role of cohesin in the formation of chromosomal higher-order structure in *Cyanidioschyzon merolae* Takuya Sakamoto[1], Minami Nakayama[1], Daniel Slane[2], Yayoi Inui[2], Tomoko Matsunaga[2], Yamato Yoshida[3], Takamasa Suzuki[4], Kan Tanaka[5], Sachihiro Matsunaga[2] ([1]Fac. Sci. Tech., Tokyo Univ. Sci., [2]Grad. Sch. Fro. Sci., Univ. Tokyo, [3]Grad. Sch. Sci., Univ. Tokyo, [4]Col. Biosci. Biotech., Chubu Univ., [5]Inst. Innov. Res., Tokyo Inst. Tech.)		3aG08 Effect of a dominant-negative ACTIN8 expression on plant posture Yuzuki Miyake[1], Hiroki Yagi[2], Koichi Toyokura[3], Ikuko Hara-Nishimura[2], Haruko Ueda[1,2] ([1]Grad. Sch. Nat. Sci., Konan Univ., [2]Fac. Sci. Engin., Konan Univ., [3]Bioscience and Biotechnology Center, Nagoya Univ.)	3aH08 Analysis of a target gene of MpCLE2 signaling in the stem cell zone of *Marchantia polymorpha* Go Takahashi, Tomohiro Kiyosue, Yuki Hirakawa (Grad. Sch. Sci., Gakushuin Uni.)			10:45
		3aG09 Gravity Response and Amyloplast Sedimentation in *Marchantia polymorpha* Mimi Hashimoto-Sugimoto[1], Takuya Norizuki[2,3], Shoji Segami[4,5], Yusaku Ohta[6], Takashi Ueda[3,5], Miyo T. Morita[1,5,7] ([1]Grad. Sch. Bioagr. Sci., Nagoya Univ., [2]IMCR, Gunma Univ., [3]Div. Cellular Dynamics, NIBB, [4]Div. Evolutionary Biol., NIBB, [5]Sch. Life Sci., SOKENDAI, [6]ExCELLS, NIBB, [7]Div. Plant Environ. Res., NIBB)	3aH09 Comparison of plastid- and cytosolic-ribosome stress response pathways in *Arabidopsis thaliana* Yumi Nagashima[1], Yui Fujii[1], Saki Ito[1], Katsutomo Ohshiro[1], Iwai Ohbayashi[3], Munetaka Sugiyama[4], Hirokazu Tsukaya[4], Gorou Horiguchi[1,2] ([1]Dept. Life Sci., Coll. Sci., Rikkyo Univ., [2]Center Life Sci., Coll. Sci., Rikkyo Univ., [3]Dept. Life Sci., National Cheng Kung Univ., [4]Grad. Sch. Sci., Univ. Tokyo)			11:00
		3aG10 Analysis for molecular functions of BIL8 that regulates plant gravitropism in brassinosteroid signaling Shin Suzuki[1], Ayumi Yamagami[1], Genki Nakata[2], Minami Matsui[3], Tetsuo Kushiro[2], Tadao Asami[4], Takeshi Nakano[1] ([1]Grad. Sch. Biostudies., Kyoto Univ., [2]Dept. Agri., Meiji Univ., [3]RIKEN CSRS, [4]Grad. Sch. Agri. Life Sci., University of Tokyo)	3aH10 Intercellular signaling that drives substomatal chamber formation Yuki Yoshida, Shinichiro Sawa (Kumamoto Univ.)			11:15
			3aH11 Interactions between Auxin and *CUP-SHAPED COTYLEDON* Genes during Embryogenesis of *Arabidopsis thaliana* Yusei Kenzaki[1], Mizuki Yamada[2], Ayame Imoto[3], Syunsuke Tanaka[1], Tatsuya Miyazaki[1], Mitsuhiro Aida[2] ([1]Fac. Sci., Kumamoto Univ., [2]IROAST, Kumamoto Univ., [3]Grad. sch. Biol. Sci., NAIST)			11:30
			3aH12 Effects of *CUP-SHAPED COTYLEDON* Genes on Cytokinin Signaling during *Arabidopsis thaliana* Embryogenesis Sawaki Urabe[1], Takumi Sakamoto[1], Mitsuhiro Aida[2] ([1]Fac. Sci., Kumamoto Univ., [2]IROAST, Kumamoto Univ.)			11:45

Ⓔ=Presentation in English