

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.
- Please don't use the presenter view to avoid screen-sharing troubles.

For online presenters

- ~~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.~~
Connection test is not offered in this meeting.
- 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.

For chairpersons

- 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, Wed., March 15, AM (9:30–12:30)

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis	Membrane trafficking	Genome function/ gene regulation	Environmental response A/ Physiological responses	Plant hormones/ Signaling molecules
09:30	1aA01 The strategy to harvest far-red light in the filamentous green alga <i>Phaeoiphila</i> , a symbiosis inside coral skeletons <u>Chieko Onami</u> , Tohru Tsuchiya, Hideaki Miyashita (Grad. Sch. Hum. and Environ. Stud., Univ. Kyoto)	1aB01 Subcellular localization of NHX5/6 in Salt stress response <u>Yuzuki Inoue</u> ¹ , Yutaro Shimizu ² , Emi Ito ³ , Akihiko Nakano ² , Tomohiro Uemura ¹ (1Grad. Sch. Humanities and Sciences., Ochanomizu Univ., 2Live Cell Super-Resolution Imaging Research Team, RIKEN Center for Advanced Photonics., 3IHLS., Ochanomizu Univ.)	1aC01 DNA Topoisomerase 1 is involved in synchronous chromatin condensation during the spermatogenesis of <i>Physcomitrium patens</i> Nan Gu ^{1,2} , <u>Yosuke Tamada</u> ^{1,2,3} (Sch. Eng., Utsunomiya Univ., 2REAL, Utsunomiya Univ., 3CORE, Utsunomiya Univ.)	1aD01 Simultaneous enhancement of iron deficiency tolerance and iron accumulation in rice by combined introduction of <i>OsHRZ</i> knockdown and engineered ferric-chelate reductase <u>Takanori Kobayashi</u> , Keisuke Maeda, Yutaro Suzuki, Naoko K. Nishizawa (Res. Inst. Biores. Biotech., Ishikawa Pref. Univ.)	1aE01 Functional analysis of <i>CLE1-7</i> using septuple knock-out mutant <u>Taiki Kajiwara</u> ¹ , Satoru Nakagami ² , Shinichiro Sawa ³ (1Grad. Sch. Sci. Tech., Univ. Kumamoto, 2HZAU, 3Fac. Adv. Sci. Tech. IRCAB., Univ. Kumamoto)
09:45	1aA02 Cryo-EM structure of light-harvesting complex II from marine green macroalgae <i>Codium fragile</i> <u>Soichiro Seki</u> ¹ , Tetsuko Nakaniwa ² , Pablo Castro-Hartmann ³ , Kasim Sader ³ , Qian Pu ³ , Akihiro Kawamoto ^{2,4} , Hideaki Tanaka ^{2,4} , Genji Kurisu ^{2,4} , Ritsuko Fujii ^{1,5,6} (1Grad. Sch. Sci., Osaka City Univ., 2Institute for Protein Res., Osaka Univ., 3Materials and Structural Analysis, Thermo Fischer Scientific., 4OTRI, Osaka Univ., 5Grad. Sch. Sci., Osaka Metropolitan Univ., 6ReCAP, Osaka Metropolitan Univ.)	1aB02 Analysis of RABH1 GTPase in <i>Arabidopsis thaliana</i> <u>Chihiro Otori</u> ¹ , Haruka Iwashita ² , Yoko Ito ³ , Emi Ito ³ , Akihiko Nakano ⁴ , Takashi Ueda ^{5,6} , Tomohiro Uemura ^{1,2} (1Grad. Sch. Humanities and Sciences., Ochanomizu Univ., 2Faculty of Science, Ochanomizu Univ., 3IHLS., Ochanomizu Univ., 4Live Cell Super-Resolution Imaging Research Team, RIKEN Center for Advanced Photonics., 5Division of Cellular Dynamics, National Institute for Basic Biology., 6The Department of Basic Biology, SOKENDAI.)	1aC02 Disruption of carotenoid biosynthesis pathway genes to establish local genetic manipulation through infrared laser irradiation in <i>Physcomitrium patens</i> <u>Chizuru Numata</u> ¹ , Mana Nakamura ¹ , Takumi Tomoi ^{2,3} , Yuka Yoshida ¹ , Ikumi Kajikawa ³ , Joe Sakamoto ⁴ , Yasuhiro Kamei ^{5,6} , Yosuke Tamada ^{1,3,6,7} (1Grad Sch Reg Dev Creat, Utsunomiya Univ., 2Ctr. Innov. Spt., Utsunomiya Univ., 3Sch. Eng., Utsunomiya Univ., 4Biophotonics, ExCELLS, 5TSB Ctr., NIBB, 6CORE, Utsunomiya Univ., 7REAL, Utsunomiya Univ.)	1aD02 OsbHLH064 transcription factors is related to intracellular iron homeostasis in rice <u>Haruka Shinkawa</u> ¹ , Taichi Shioya ^{1,2} , Akari Murota ¹ , Takanori Kobayashi ¹ (1Res. Inst. Biores. Biotech., Ishikawa Pref. Univ., 2Grad. Sch. Bioagri. Sci., Nagoya Univ.)	1aE02 Long-distance translocation of the <i>CLE2</i> peptide and its positive effect on the root sucrose status <u>Satoru Okamoto</u> ¹ , Azusa Kawasaki ¹ , Yumiko Makino ² , Takashi Ishida ^{3,4} , Shinichiro Sawa ⁴ (1Grad. Sch. Sci and Tech., Univ. Niigata, 2NIBB, 3IROAST, Univ. Kumamoto, 4Grad. Sch. Sci and Tech., Univ. Kumamoto)
10:00	1aA03 Wavelength-Dependent Optical Response of Single Photosynthetic Antenna Complexes from Siphonous Macrogreen Alga <i>Codium fragile</i> Tatas H. P. Brotosudarmo ¹ , Bernd Wittmann ¹ , Soichiro Seki ² , <u>Ritsuko Fujii</u> ^{1,2,3} , Jürgen Köhler ¹ (1Spectrosc. Soft Matter, Univ. Bayreuth, Germany, 2Grad. Sch. Sci., Osaka City Univ., 3ReCAP, Osaka Metropolitan Univ.)	1aB03 Analysis of intracellular localization of <i>Arabidopsis thaliana</i> VAMP714 <u>Tomoko Eguchi</u> ¹ , Sae Endo ¹ , Emi Ito ² , Akihiko Nakano ³ , Tomohiro Uemura ¹ (1Grad. Sch. Humanities and Sciences., Ochanomizu Univ., 2IHLS., Ochanomizu Univ., 3Live Cell Super-Resolution Imaging Research Team, RIKEN Center for Advanced Photonics.)	1aC03 The nuclear pore complex is a novel factor involved in the two-step regulation of centromere distribution in <i>Arabidopsis thaliana</i> <u>Nanami Ito</u> ¹ , Takuya Sakamoto ² , Yuki Sakamoto ³ , Sachihiko Matsunaga ¹ (1Dept. of Integr. Biosci., Grad. Sch. of Front. Sci., Univ. of Tokyo, 2Dept. of Appl. Biol. Sci., Fac. of Sci. and Tech., Tokyo Univ. of Sci., 3Dept. of Biol. Sci., Grad. Sch. of Sci., Osaka Univ.)	1aD03 The <i>Arabidopsis thaliana</i> ATP Binding Cassette Subfamily G Protein 36 (AtABCG36) Is Not a Functional Cadmium Exporter <u>Keita Ito</u> ¹ , Yuhi Ino ² , Takashi Akihiro ³ , Keitaro Tano ⁴ , Abidur Rahman ^{1,2} (1United Grad. Sch. Agri Sci., Iwate Univ., 2Dept. Plant Bio Sci., Fac. Ag., Iwate Univ., 3Life and Env Sci., Shimane Univ., 4Grad. Sch. Agri and Life Sci., Univ. Tokyo)	1aE03 Peptide ligand-mediated trade-off between plant growth and stress response <u>Mari Ogawa-Ohnishi</u> , Tomohide Yamashita, Mitsuru Kakita, Takuya Nakayama, Yuri Ohkubo, Yoko Hayashi, Yasuko Yamashita, Taizo Nomura, Saki Noda, Hideofumi Shinohara, Yoshikatsu Matsubayashi (Grad. Sci., Univ. Nagoya)
10:15	1aA04 Photosynthetic properties of the <i>hxc1</i> knock-out mutant of <i>Chaetoceros gracilis</i> lacking energy-dependent NPQ <u>Minoru Kumazawa</u> ¹ , Noriko Ishikawa ¹ , Shoko Tsuji ¹ , Natsuko Inoue-Kashino ² , Yasuhiro Kashino ² , Kentaro Ifuku ¹ (1Grad. Sch. Agri., Kyoto Univ., 2Grad. Sch. Sci., Univ. Hyogo)	1aB04 Phosphorylation/Dephosphorylation-mediated Regulation of the Polar Localization of a Borate Transporter BOR1 <u>Keita Muro</u> ¹ , Rintaro Yoshida ² , Yudai Shimizu ³ , Keisuke Ohashi ⁴ , Yuka Ogino ⁴ , Koji Kasai ⁵ , Chiaki Hori ⁶ , Taichi Takasuka ⁴ , Toru Fujiwara ⁵ , Junpei Takano ¹ (1Grad. Sch. Agr., Osaka Metropolitan Univ., 2Col. Life Environ. Sci., Osaka Pref. Univ., 3Grad. Sch. Life Environ. Sci., Osaka Pref. Univ., 4Grad. Sch. Agri., Hokkaido Univ., 5Grad. Sch. Agri. Life Sci., Univ. Tokyo, 6Grad. Sch. Environ. Sci., Hokkaido Univ.)	1aC04 Functional analysis of chromatin remodeling factors involved in the acquisition of plant regenerative capacity <u>Ayaka Horie</u> ¹ , Takuya Sakamoto ² , Mariana Diaz ³ , Yayoi Inui ¹ , Daniel Slane ¹ , Hikaru Sato ¹ , Yutaka Suzuki ⁴ , Sachihiko Matsunaga ¹ (1Dept. Integr. Biosci., Grad. Sch. Front. Sci., Univ. Tokyo, 2Dept. Appl. Biol. Sci., Fac. Sci. Tech., Tokyo Univ. Sci., 3IPMB, Univ. Zurich, 4Dept. Comput. Biol. Med. Sci., Grad. Sch. Front. Sci., Univ. Tokyo)	1aD04 The role of MYBCC-SPX module in phosphate response of nonvascular plant <i>Marchantia polymorpha</i> <u>Hinatamaru Fukumura</u> ¹ , Ginga Kitaura ¹ , Hirotaka Kato ^{1,2} , Yuuki Sakai ¹ , Yuki Kondo ¹ , Hidehiro Fukaki ¹ , Tetsuro Mimura ^{1,3,4} , <u>Kimitsune Ishizaki</u> ¹ (1Grad. Sch. Sci. Kobe Univ., 2Grad. Sch. Sci. Eng., Ehime Univ., 3Grad. Sch. Agri. Life Sci., Univ. Tokyo, 4Col. Biosci. Biotech., National Cheng Kung Univ.)	1aE04 Localization of jasmonate and its function in the regulation of tomato fruit set <u>Yukako Nomura</u> ¹ , Yu Lu ² , Hirofumi Enomoto ³ , Keiichiro Harada ¹ , Ryoichi Yano ⁴ , Mikiko Kojima ⁵ , Yumiko Takebayashi ⁵ , Hitoshi Sakakibara ⁶ , Hiroshi Ezura ^{2,7} , Tohru Ariizumi ^{2,7} (1Grad. Sch. Life Environ. Sci., Univ. Tsukuba, 2Fac. Life Environ. Sci., Univ. Tsukuba, 3Dept. Biosci., Univ. Teikyo, 4Advanced Analysis Center., NARO, 5CSRS., RIKEN, 6Grad. Sch. Bioagric Sci., Univ. Nagoya, 7T-PIRC., Univ. Tsukuba)

Room F	Room G	Room H	Room I	Room X	Room Y	Room Z	Time
Environmental response B/ Environmental stresses	Development/Morphogenesis	Photoreceptors/ Photoresponses	Systems biology				
<p>1aF01 The cooperation of chloroplast DHAR3 and glutathione determines the capacity for ascorbate accumulation under photooxidative stress <u>Akane Hamada</u>, Takahisa Ogawa, Takahiro Ishikawa, Takanori Maruta (Grad. Sch. Nat. Sci. Technol., Shimane Univ.)</p>	<p>1aG01 Molecular mechanism underlying differentiation of epidermis that is composed of heterogenous cell types <u>Kenji Nagata</u>¹, Taku Takahashi², Mitsutomo Abe¹ (¹Grad. Sch. Arts and Sciences, Univ. Tokyo, ²Grad. Sch. Sci., Okayama Univ.)</p>	<p>1aH01 A photoreceptor gene involved in asexual reproduction of <i>Pediastrum duplex</i> <u>Akari Masaki</u>^{1,2}, Tomohiro Suzuki^{1,2}, Tomoko Shinomura³, Yutaka Kodama^{1,2} (¹Ctr. Biosci. Res. Educ., Utsunomiya Univ., ²Grad. Sch. Reg. Dev. Creat., Utsunomiya Univ., ³Fac. Sci. Eng., Teikyo Univ)</p>	<p>1aI01 Linking genotypes and phenotypes in the light of convergent evolution <u>Kenji Fukushima</u> (Univ Wuerzburg)</p>	Symposium S01 Exploratory genomic evolutions and reproductive adaptations in plants (9:30–12:30)	Symposium S02 Plant Strategies for Survival Revealed from Regulatory System of Resource Allocation (9:30–12:30)	Symposium S03 Current development of genome editing: From various novel tools to potential applications (9:30–12:30)	09:30
<p>1aF02 The chloroplast GS/GOGAT cycle drives oxidative stress response in catalase-deficient mutants <u>Kana Ishibashi</u>¹, Takanori Maruta^{1,2}, Amna Mhamdi², Frank Van Breusegem² (¹Nat. Sci. Technol., Shimane Univ., ²Plant Systems Biol., VIB-Ghent Univ.)</p>	<p>1aG02 Control of <i>ATML1</i> activity during epidermal cell differentiation <u>Shinobu Takada</u>¹, Gerd Jürgens², Hiroyuki Iida³ (¹Dept. Biol. Sci., Grad. Sch. Sci., Osaka Univ., ²ZMBP, University of Tübingen, ³Institute of Biotechnology, HiLIFE, University of Helsinki)</p>	<p>1aH02 Role of phytochrome B in inflorescence stem <u>Takuto Kudo</u>, Mayu Nakagawa (Ishinomaki Senshu Univ.)</p>	<p>1aI02 Improving the Reliability of QTL Detection in Rice by Effective Use of Legacy Data for GWAS <u>Mao Suganami</u>¹, Soichi Kojima², Wang Fanmiao³, Hideki Yoshida¹, Kotaro Miura⁴, Yoichi Morinaka⁴, Masao Watanabe⁵, Eiji Yamamoto⁶, Makoto Matsuoka¹ (¹Faculty of Food and Agricultural Sciences, Institute of Fermentation Sciences, Fukushima University, ²Graduate School of Agricultural Science, Tohoku University, ³Bioscience and Biotechnology Center, Nagoya University, ⁴Faculty of Bioscience and Biotechnology, Fukui Prefectural University, ⁵Graduate School of Life Sciences, Tohoku University, ⁶Graduate School of Agriculture, Meiji University)</p>				09:45
<p>1aF03 The liverwort <i>Marchantia polymorpha</i> lacks a light regulation mechanism for ascorbate biosynthesis <u>Tetsuya Ishida</u>¹, Haruka Kaji², Yasuhiro Tanaka³, Takahisa Ogawa^{1,2,3}, Takanori Maruta^{1,2,3}, Shigeru Shigeoka⁴, Takahiro Ishikawa^{1,2,3} (¹Grad. Sci. Nat. Sci. Technol., Shimane Univ., ²Facu. Life. Environ. Sci., Shimane Univ., ³Uni. Grad. Sch. Agricul. Sci., Tottori Univ., ⁴Exp. Farm, Kindai Univ.)</p>	<p>1aG03 Condensation and decondensation of NPH3-like proteins in the control of polar auxin transport Xiaomin Song¹, Yi Yang¹, Shinichiro Sawa², <u>Masahiko Furutani</u>^{2,3} (¹Life Sciences, FAFU, ²IRCAEB, Kumamoto Univ., ³IROAST, Kumamoto Univ.)</p>	<p>1aH03 Effects of UV-B stress on flowering in <i>Arabidopsis thaliana</i> <u>Ami Takahashi</u>, Yuki Takahashi, Jun Hidema, Mika Teranishi (Grad. Sch. Life Sci., Tohoku Univ.)</p>	<p>1aI03 Comparative analysis of plant and animal promoter elements <u>Kyonoshin Maruyama</u>^{1,2}, Tetsuya Sakurai³, Yoshiharu Y. Yamamoto⁴, Nobutaka Mitsuda⁵, Shingo Sakamoto⁵ (¹JIRCAS, ²Univ. Tsukuba, ³Multi. Sci. Cluster, Kochi Univ., ⁴Fac Appl Biol Sci, Gifu Univ., ⁵AIST, Bioprod)</p>				10:00
<p>1aF04 Initial cellular responses and long-term effects of atmospheric low-temperature plasma irradiation on <i>Marchantia polymorpha</i> <u>Shoko Tsuboyama</u>¹, Takamasa Okumura², Kazunori Koga^{2,3}, Masaharu Shiratani², Kazuyuki Kuchitsu¹ (¹Dept. Appl. Biol. Sci., Tokyo Univ. of Sci., ²ISEE, Kyushu Univ., ³NINS)</p>	<p>1aG04 Functional analysis of acidic loop in polar localization of DPK1 <u>Akira Yoshinari</u>^{1,2}, Emi Mishihiro-Sato¹, Keiko Kano¹, Keiko Kuwata¹, Wolf B. Frommer^{1,3,4}, Masayoshi Nakamura¹ (¹WPI-ITbM, Nagoya Univ., ²IAR, Nagoya Univ., ³Heinrich Heine Univ., ⁴Max Planck Institute for Plant Breeding Research)</p>	<p>1aH04 Regulation mechanism of light-induced gene expression and subcellular localization of photolyase in <i>M. polymorpha</i> L. <u>Takahiro Nii</u>, Yuga Ogawa, Chikako Mitsuoka, Mika Teranishi, Jun Hidema (Grad. Sch. Life Sci., Tohoku Univ.)</p>	<p>1aI04 A Sea Slug, <i>Plakobranchus ocellatus</i>, Uses Non-self Functional Chloroplast Without Horizontal Gene Transfer <u>Taro Maeda</u>¹, Masaru Mori¹, Atsushi J. Nagano^{1,2} (¹IAB, Keio Univ., ²Fac. Agric., Ryukoku Univ.)</p>				10:15

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

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis	Membrane trafficking	Genome function/ gene regulation	Environmental response A/ Physiological responses	Plant hormones/ Signaling molecules
10:30	<p>1aA05 Light harvesting mechanism of the smallest type-I reaction center of green sulfur bacteria: mutational modifications and theoretical analysis Chihiro Azai¹, Hirozo Oh-oka², Shigeru Itoh³, Hiroataka Kito⁴, Akihiro Kimura³ (¹Dept. Bioinf., Ritsumeikan Univ., ²Grad. Sch. Sci., Osaka Univ., ³Grad. Sch. Sci., Nagoya Univ., ⁴Fac. Sci. and Eng., Kindai Univ.)</p>	<p>1aB05 The role of the plant secretion system in the pathogen responses Sae Endo¹, Aimi Taura², Takashi Yaeno³, Emi Ito⁴, Yoko Ito⁴, Akihiko Nakano⁵, Tomohiro Uemura¹ (¹Grad. Sch. Humanities and Sciences, Ochanomizu Univ., ²Faculty of Science, Ochanomizu Univ., ³Department of Agriculture, Ehime Univ., ⁴IHLS., Ochanomizu Univ., ⁵Live Cell Super-Resolution Imaging Research Team, RIKEN Center for Advanced Photonics)</p>	<p>1aC05 Evaluation for the impact of histone H2B acetylation on DNA-histone association using plant nucleosome reconstruction Minoru Ueda^{1,2}, Masatoshi Wakamori³, Mitsumasa Takenaga⁴, Junko Ishida^{1,2}, Tetsushi Sakuma⁴, Takashi Yamamoto⁴, Takashi Umehara³, Motoaki Seki^{1,2,5} (¹Plant Genomic Network Research Team, RIKEN CSRS, ²Plant Epigenome Regulation Lab., RIKEN CPR, ³Laboratory for Epigenetics Drug Discovery, RIKEN BDR, ⁴Molecular Genetics Lab., Hiroshima Univ., ⁵KIBR, Yokohama City Univ.)</p>	<p>1aD05 Chlorophagy is suppressed in a mutant of plastid exonuclease DPD1 Yushi Yoshitake, Kohki Yoshimoto (Sch. agri., Univ. Meiji)</p>	<p>1aE05 Functional Analysis of OsJAZ2 and OsJAZ5, Which Function in Downstream Signaling of the Main Jasmonate Receptor OsCOI2 in Rice Hideo Inagaki¹, Momoka Ikeda², Emi Yumoto³, Kengo Hayashi⁴, Yousuke Takaoka⁴, Minoru Ueda^{4,5}, Koji Miyamoto^{1,2} (¹Grad. Sch. Sci & Eng., Teikyo Univ., ²Dept. Biosci., Teikyo Univ., ³Adv. Instrum. Anal. Cent., Teikyo Univ., ⁴Grad. Sch. Sci., Tohoku Univ., ⁵Grad. Sch. Life Sci., Tohoku Univ.)</p>
10:45	<p>1aA06 Light harvesting mechanisms of plant and bacterial type-I reaction centers Shigeru Itoh¹, Akihiro Kimura¹, Hiroataka Kito² (¹Nagoya Univ. Grad Sch Science Physics, ²Kindai Univ. Science-engineering)</p>	<p>1aB06 Analysis of PICALM2 and pollen-specific VAMP72 members in Arabidopsis Kazuo Ebine^{1,2}, Masaru Fujimoto³, Keita Muro⁴, Hidenori Takeuchi⁵, Akira Nozawa⁶, Tatsuya Sawasaki⁶, Tetsuya Higashiyama⁷, Takashi Ueda^{1,2} (¹Div. Cellular Dynamics, NIBB, ²Sch. Life Sci., SOKENDAI, ³Grad. Sch. Agri. and Life Sci., The Univ. Tokyo, ⁴Grad. Sch. Agri., Osaka Metropolitan Univ., ⁵ITBM, Nagoya Univ., ⁶Proteo-Science Center, Ehime Univ., ⁷Grad. Sch. Sci., The Univ. Tokyo)</p>	<p>1aC06 E Fluctuation in nitrate availability impacts chromatin profile of cytokinin biosynthesis genes Fanny Bellegarde, Olivia Tjahjono, Hitoshi Sakakibara (Graduate School of Bioagricultural Sciences, Nagoya University)</p>	<p>1aD06 [Cancelled]</p>	<p>1aE06 Chemical genetic analysis of jasmonate signaling by COI1-JAZ9 selective agonist, a stereoisomer of coronatine Kengo Hayashi¹, Nobuki Kato¹, Khurram Bashir^{2,3}, Haruna Nomoto¹, Misuzu Nakayama¹, Andrea Chini⁴, Satoshi Takahashi², Hiroaki Saito⁵, Raku Watanabe⁶, Yousuke Takaoka¹, Maho Tanaka², Atsushi J. Nagano^{7,8}, Motoaki Seki², Roberto Solano⁴, Minoru Ueda^{1,6} (¹Grad. Sch. Sci., Tohoku Univ., ²RIKEN, CSRS, ³LUMS, ⁴CNB-CSIC, ⁵Faculty of Pharmaceutical Sci., Hokuriku Univ., ⁶Grad. Sch. Life Sci., Tohoku Univ., ⁷Faculty of Agriculture, Ryukoku Univ., ⁸Institute for Advanced Biosciences, Keio Univ.)</p>
11:00	<p>1aA07 Analysis of intracellular polysulfide dynamics related to transcriptional regulation of sulfide-dependent photosynthesis Takayuki Shimizu¹, Tomoaki Ida², Giuliano T. Antelo³, Yuta Ihara⁴, Shinji Masuda⁴, David P. Giedroc³, Takaaki Akaik², Daiana Capdevila³, Tatsuru Masuda¹ (¹Grad. Sch. Arts and Sci., Univ. Tokyo, ²Dep. Environ. Medi. and Mol. Toxicol., Tohoku Univ., ³Dep. Chem., Indiana Univ., ⁴Dept. Life Sci. and Technol., Tokyo Inst. Technol.)</p>	<p>1aB07 Generation and characterization of knock-out mutant of <i>BEN2/PPS45</i> encoding a TGN-localized Sec1-Munc18 component in <i>Arabidopsis thaliana</i> Kosuke Ogita, Hirokazu Tanaka (Grad. Agri., Univ. Meiji)</p>	<p>1aC07 E Epigenetic-driven synergistic and antagonistic regulation on transposable elements carried out by HDA6 and LDL1/2 Jo-Wei Allison Hsieh^{1,2}, Ming-Ren Yen¹, Fu-Yu Hung³, Keqiang Wu³, Pao-Yang Chen^{1,2} (¹Institute of Plant and Microbial Biology, Academia Sinica, Taipei, Taiwan, ²Genome and Systems Biology Degree Program, Academia Sinica and National Taiwan University, Taipei, Taiwan, ³Institute of Plant Biology, National Taiwan University, Taipei, Taiwan)</p>	<p>1aD07 Comparative analysis of large-scale field-omics of soybean and komatsuna (<i>Brassica rapa</i> var. <i>perviridis</i>) dataset Nao Okuma¹, Kie Kumaishi¹, Atsushi Fukushima^{2,3}, Natsuko I. Kobayashi⁴, Shoichiro Hamamoto⁴, Miyako Kusano⁵, Megumi Narukawa¹, Yasuhiro Date⁶, Keitaro Tano⁴, Naoto Nihei⁷, Yasunori Ichihashi¹ (¹RIKEN BRC, ²Grad. Sch. Life and Environ. Sci., Kyoto Pref. Univ., ³RIKEN CSRS, ⁴Grad. Sch. Agri. Life Sci., Univ. Tokyo, ⁵Sch. Life Environ. Sci., Univ. Tsukuba, ⁶NARO, ⁷Fac. Food Agri. Sci., Fukushima Univ.)</p>	<p>1aE07 Development of peptide-based chemical tools that regulate complex signaling of the plant hormone jasmonate Yousuke Takaoka¹, Ruiqi Liu¹, Qi Li¹, Kaho Suzuki¹, Minoru Ueda^{1,2} (¹Grad. Sch., Tohoku Univ., ²Grad. Life Sciences, Tohoku Univ.)</p>
11:15	<p>1aA08 Sulfur-Dependent Photoinhibition in Anaerobic Culture of Green Sulfur Bacteria Masahiko Higashiguchi, Kazuki Terauchi, Chihiro Azai (Graduate School of Life Sciences, Ritsumeikan University)</p>	<p>1aB08 E Analysis of a novel <i>trans</i>-Golgi/TGN-localized protein family in <i>Arabidopsis thaliana</i> Natalia Julia Rzepecka¹, Emi Ito², Yoko Ito², Tomohiro Uemura¹ (¹Grad. Sch. of Humanities and Sciences, Ochanomizu Univ., ²IHLS, Ochanomizu Univ.)</p>	<p>1aC08 Unique heterochromatin landscape in the rice endosperm Tajji Kawakatsu¹, Hanna Nishida¹, Hiroki Nagata², Akemi Ono², Kaoru Tonosaki², Tetsu Kinoshita² (¹NIAS, NARO, ²KIBR, YCU)</p>	<p>1aD08 Physiological analysis of Mongolian plant <i>Chloris virgata</i> and the novel growth promotive genes Shintaro Kawabata¹, Bolortuya Byambajav², Namuunaa Ganbayar¹, Ayumi Yamagami¹, Davaapurev Bekh-Ochir², Fuminori Takahashi³, Komaki Inoue³, Keiichi Mochida³, Kazuo Shinozaki³, Tadao Asami⁴, Batkhuu Javzan², Takeshi Nakano¹ (¹Grad. Sch. Sci., Univ. Kyoto, ²National Univ. of Mongolia, ³CSRS, Riken, ⁴Grad. Sch. Sci., Univ. Tokyo)</p>	<p>1aE08 Structure-activity relationship and potential utility of a novel compound that activate both jasmonic acid and salicylic acid pathways Kazuyuki Kuchitsu¹, Taiki Funahashi¹, Kentaro Namiki¹, Nobutaka Kitahata^{1,2}, Yuho Saito¹, Masataka Nakano¹, Kenji Hashimoto¹, Tadao Asami², Seisuke Kimura³, Shoya Otokozawa¹, Kenji Nemoto¹, Manami Awano¹, Kouji Kuramochi¹ (¹Appl. Biol. Sci. Tokyo Univ. of Science, ²Ag. Life Sci., Univ. of Tokyo, ³Kyoto Sangyo Univ.)</p>

Room F	Room G	Room H	Room I	Room X	Room Y	Room Z	Time
Environmental response B/ Environmental stresses	Development/Morphogenesis	Photoreceptors/ Photoresponses	Systems biology				
<p>1aF05 Stress-responsive rapid long-distance signaling in <i>Marchantia polymorpha</i> Kenshiro Watanabe, Kota Hasegawa, Yuki Kamiya, Hiroki Kikuchi, Hiroki Shindo, Kenji Hashimoto, Kazuyuki Kuchitsu (Dept. Appl. Biol. Sci., Tokyo Univ. of Science)</p>	<p>1aG05 Co-option of the conserved transcriptional module FAMA-WSB for defense against herbivores in Brassicales Makoto Shirakawa^{1,2}, Tomoki Oguro¹, Shigeo S Sugano³, Shohei Yamaoka⁴, Mayu Sagara¹, Mai Tanida¹, Hiroya Matsumoto¹, Kie Kumaishi⁵, Soma Yoshida⁶, Mutsumi Watanabe¹, Takayuki Tohge¹, Takamasa Suzuki⁷, Yasunori Ichihashi^{2,5}, Atsushi Takemiyama⁶, Nobutoshi Yamaguchi¹, Takayuki Kohchi⁴, Toshiro Ito¹ (Graduate School of Science and Technology, Nara Institute of Science and Technology, Ikoma, Japan, ²Precursory Research for Embryonic Science and Technology, Japan Science and Technology Agency, Kawaguchi-shi, Japan, ³Bioproduction Research Institute, National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan, ⁴Graduate School of Biostudies, Kyoto University, Kyoto, Japan, ⁵RIKEN BioResource Research Center, Tsukuba, Japan, ⁶Graduate School of Sciences and Technology for Innovation, Yamaguchi University, Yamaguchi, Japan, ⁷Department of Biological Chemistry, College of Bioscience and Biotechnology, Chubu University, Kasugai, Japan)</p>	<p>1aH05 Studies on the function and role of two UVR8 homologs expressed in rice Misaki Sugai, Hanako Miura, Mika Teranishi, Jun Hidema (Grad. Sch. Life Sci., Tohoku Univ.)</p>	<p>1aI05 E Omics resources provide important insights into the biosynthesis of specialized metabolites in <i>Magnolia obovata</i> Megha Rai^{1,2}, Amit Rai^{2,3}, Towa Yokosaka¹, Tetsuya Mori³, Ryo Nakabayashi³, Michimi Nakamura¹, Hideyuki Suzuki⁴, Kazuki Saito^{2,3}, Mami Yamazaki^{1,2} (Grad. Sch. of Pharm. Sci., Chiba Univ., ²Plant Mol. Sci. Cntr., Chiba Univ., ³CSRS, RIKEN, ⁴Kazusa DNA Res. Inst.)</p>	Symposium S01	Symposium S02	Symposium S03	10:30
<p>1aF06 Functional analysis of Non-specific phospholipase C in <i>Marchantia polymorpha</i> Daisuke Uchikoshi¹, Misao Shimojo¹, Koichi Hori¹, Kimitsune Ishizaki², Hiroyuki Ohta¹, Mie Shimojima¹ (Sch. Life Sci. and Tech., Tokyo Tech, ²Grad. Sch. of Sci., Kobe Univ.)</p>	<p>1aG06 Live-cell imaging of <i>Arabidopsis</i> zygote reveals the mechanism of polar cell elongation Hikari Matsumoto¹, Sakumi Nakagawa², Takumi Higaki³, Satoru Tsugawa⁴, Yukihiro Ishimoto⁴, Tomonobu Nonoyama⁴, Zichen Kang⁴, Minako Ueda^{1,2} (Grad. Sch. Life Sci., Tohoku Univ., ²Fac. Sci., Tohoku Univ., ³IROAST, Kumamoto Univ., ⁴Grad. Sch. Sys. Sci., Akita Prefectural Univ.)</p>	<p>1aH06 Novel function of CDKA in regulation of light responses Sakuta Miyazaki¹, Natsumi Inoue², Masaki Ishikawa³, Mitsuyasu Hasebe³, Masami Sekine⁴, Tomomichi Fujita² (Grad Sch Life Sci, Hokkaido Univ., ²Fac Sci, Hokkaido Univ., ³Div Evol Biol, NIBB, ⁴Fac Bior Envi Sci, Ishikawa Pref Univ.)</p>	<p>1aI06 Multi-omics in agroecosystem resolved the trade-off between crop growth and quality Fuki Fujiwara^{1,2}, Naoto Nihei³, Atsushi Fukushima⁴, Kenta Suzuki¹, Shohei Shimizu^{3,6}, Jun Kikuchi^{7,8}, Tomoko Matsumoto⁷, Megumi Narukawa-Nara¹, Mao Suganami³, Kae Miyazawa², Yasunori Ichihashi¹ (BioResour. Res. Ctr., RIKEN, ²Grad. Sch. Agri. Life Sci., Univ. Tokyo, ³Fac. Food Agri. Sci., Fukushima Univ., ⁴Grad. Sch. Life Environ. Sci., Kyoto Pref. Univ., ⁵Fac. Data Sci., Shiga Univ., ⁶Ctr. Adv. Intell. Proj., RIKEN, ⁷RIKEN Ctr. Sust. Resour. Sci., RIKEN, ⁸Grad. Sch. Med. Life Sci., Yokohama City Univ.)</p>	Symposium S01 Exploratory genomic evolutions and reproductive adaptations in plants (9:30–12:30)	Symposium S02 Plant Strategies for Survival Revealed from Regulatory System of Resource Allocation (9:30–12:30)	Symposium S03 Current development of genome editing: From various novel tools to potential applications (9:30–12:30)	10:45
<p>1aF07 Subcellular localization analysis of ABA signaling factors of <i>Physcomitrium patens</i> Yuko Ikeda¹, Izumi Yotsui¹, Teruaki Tajiri¹, Daisuke Takezawa², Yoichi Sakata¹ (Dept. of Biosci., Tokyo Univ. Agri., ²Grad. Sch. Sci and Eng., Saitama Univ.)</p>	<p>1aG07 The analysis for elucidation of molecular mechanism of somatic embryogenesis in carrot by light irradiation Kiryu Tsurukai¹, Hidetoshi Yamada^{1,2}, Katsumi Higashi^{1,2} (Grad. Sch. Sci. Eng., Teikyo Univ. Sci., ²Facu. Lif. Env. Sci., Teikyo Univ. Sci.)</p>	<p>1aH07 Cleavage Factor I is Essential for Maintaining the Diversity at the 3' Ends of mRNA in Plants Xiaojuan Zhang¹, Łukasz Szewc², Mika Nomoto^{3,4}, Marta Garcia-León⁵, Mariko Kato¹, Kei Yura^{6,7,8}, Vicente Rubio⁹, Yasuomi Tada^{3,4}, Tsuyoshi Furumoto⁹, Takashi Aoyama¹, Artur Jarmolowski², Tomohiko Tsuge¹ (ICR, Kyoto Univ., ²Inst. Mol. Biol. Biotech., Adam Mickiewicz Univ., ³Ctr. Gene Res., Nagoya Univ., ⁴Grad. Sch. Sci., Nagoya Univ., ⁵Natl. Ctr. Biotech., CSIC, ⁶Sch. Adv. Sci. Eng., Waseda Univ., ⁷Grad. Sch. Humanit. Sci., Ochanomizu Univ., ⁸Ctr. Interdiscip. AI and Data Sci., Ochanomizu Univ., ⁹Sch. of Agric., Ryukoku Univ.)</p>	<p>1aI07 Chemical transcriptomics enable comprehensive analysis of plant responses induced by various chemicals Hayoung Lee¹, Natsumi Mori-Moriyama¹, Yasuyuki Nomura², Takumi Higaki³, Ayato Sato⁴, Atsushi J. Nagano^{1,5} (Faculty of Agriculture, Ryukoku University, ²Research Institute for Food and Agriculture, Ryukoku University, ³Faculty of Advanced Science and Technology (FAST), Kumamoto University, ⁴Institute of Transformative BioMolecules (WPI-ITbM), Nagoya University, ⁵Institute for Advanced Biosciences (IAB), Keio University)</p>				11:00
<p>1aF08 Analysis of B3-RAF like kinase-mediated SnRK2 activation in response to ABA/osmotic stress in the moss <i>Physcomitrium patens</i> Naoya Kohara¹, Izumi Yotsui¹, Teruaki Tajiri¹, Daisuke Takezawa², Yoichi Sakata¹ (Dept. of Biosci., Tokyo Univ. of Agri., ²Grad. Sch. Sci and Eng., Univ. Saitama)</p>	<p>1aG08 Mechanisms of MphYPNOS-mediated gemma dormancy in <i>Marchantia polymorpha</i> Nami Yoshimura¹, Mikako Yoshikawa¹, Arisa Yasuda², Hirotaka Kato^{1,3}, Yuuki Sakai¹, Tetsuro Mimura^{1,4,5}, Yuki Kondo¹, Hidehiro Fukaki¹, Kimitsune Ishizaki¹ (Grad. Sch. Sci., Kobe Univ., ²Fac. Sci., Kobe Univ., ³Grad. Sch. Sci. Eng., Ehime Univ., ⁴Grad. Sch. Agri. Life Sci., Univ. Tokyo, ⁵Col. Biosci. Biotech., National Cheng Kung Univ.)</p>		<p>1aI08 Three-dimensional Computed Tomography and Quantitative Image Analysis of a <i>Hibiscus cannabinus</i> Pulvinus Miyuki Nakata^{1,2}, Masahiro Takahara³, Toshihiro Yamada⁴, Taku Demura^{1,2} (NAIST, Bio, ²NAIST, CDG, ³Acacia Hort., ⁴Osaka Metropolitan Univ., Botanical Gardens)</p>				11:15

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

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis	Membrane trafficking	Genome function/ gene regulation	Environmental response A/ Physiological responses	Plant hormones/ Signaling molecules
11:30	1aA09 Functional analysis of a nitrogenase-like enzyme from the photosynthetic bacterium <i>Rhodobacter capsulatus</i> <u>Yoshiki Morimoto</u> , Yuichi Fujita, Haruki Yamamoto (Grad. Sch. Bioagr. Sci., Nagoya Univ.)	1aB09 Functional analyses of the ESCRT-III complex in the liverwort, <i>Marchantia polymorpha</i> <u>Naoki Minamino</u> ¹ , Takuya Norizuki ² , Shoji Mano ^{1,3} , Kazuo Ebine ^{1,3} , Takashi Ueda ^{1,3} (¹ NIBB, ² IMCR, Gunma Univ., ³ SOKENDAI)	1aC09 Interaction between polyadenylation and C-to-U editing of mitochondrial mRNA involved in <i>cytochrome c</i> maturation <u>Akihito Mamiya</u> ^{1,4} , Kayoko Yamamoto ¹ , Takehito Kobayashi ² , Yusuke Yagi ² , Takahiro Nakamura ² , Takashi Hirayama ³ , Hidehiro Fukaki ⁴ , Munetaka Sugiyama ¹ (¹ Department of Biological Sciences, Graduate School of Science, The University of Tokyo, ² Department of Bioscience and Biotechnology, Faculty of Agriculture, Kyushu University, ³ Institute of Plant Science and Resources, Okayama University, ⁴ Department of Biology, Graduate School of Science, Kobe University)	1aD09 <i>In natura</i> study of leaf longevity: Distinctive controls between growing and overwintering seasons <u>Hiroshi Kudoh</u> ¹ , Genki Yumoto ¹ , Haruki Nishio ^{1,2} , Tomoaki Muranaka ^{1,3} , Jiro Sugisaka ¹ , Mie N. Honjo ¹ (¹ CER, Kyoto Univ., ² DS AI Center, Shiga Univ., ³ Facul. Agr., Kagoshima, Univ.)	1aE09 Large-scale transcriptome analysis of SA-JA Dose-dependent phytohormone responses in <i>Arabidopsis thaliana</i> <u>Atsuki Tomita</u> ^{1,2} , Taro Maeda ^{2,3} , Natsumi Mori-Moriyama ³ , Yasuyuki Nomura ³ , Yuko Kurita ⁴ , Makoto Kashima ⁵ , Masaru Tomita ^{1,2} , Shigeyuki Betsuyaku ⁶ , Atsushi J. Nagano ^{2,3,6} (¹ Dept. Environment & Info. Studies., Keio Univ., ² IAB, Keio Univ., ³ Res. Inst. Food Agr., Ryukoku Univ., ⁴ Res. Inst. Food Agr., Ryukoku Univ., ⁵ Coll. Sci. Eng., Aoyama Gakuin Univ., ⁶ Fac. Agr., Ryukoku Univ.)
11:45	1aA10 Electrostatic Binding of Water-soluble Subunits on the Photosynthetic Reaction Center of Green Sulfur Bacteria <u>Tomomi Inagaki</u> , Kazuki Terauchi, Chihiro Azai (Graduate School of Life Sciences, Ritsumeikan University)	1aB10 Mutant screening for normally shaped formation of the oil body in <i>Marchantia polymorpha</i> <u>Takehiko Kanazawa</u> ^{1,2} , Sho Hachinoda ² , Takashi Ueda ^{1,2} (¹ Dev. of Cellular Dynamics, NIBB, ² Sch. Life Sci., SOKENDAI)	1aC10 A defect in an RNA metabolic enzyme suppresses the adverse effect of the accumulation of polyadenylated mitochondrial mRNA in Arabidopsis <u>Takashi Hirayama</u> ¹ , June-Sik Kim ^{1,2} , Keiichi Mochida ² (¹ IPSR, Okayama Univ., ² CSRS, RIKEN)	1aD10 <i>Cuscuta campestris</i> modulates photoresponses during the transition from germinating seedling to mature shoot as an adaptation to light environment <u>Toshiya Yokoyama</u> ¹ , Mariko Asaoka ² , Akira Watanabe ³ , Kazuhiko Nishitani ² (¹ Grad. Sch. Sci., Kanagawa Univ., ² Fac. Sci., Kanagawa Univ., ³ IMRAM, Tohoku Univ.)	1aE10 E Effect of Prohydrojasmon on The Growth of Komatsuna and Their Mechanism Action <u>Haidar Rafid Azis</u> ^{1,2} , Shinya Takahashi ^{1,2} , Mitsuko Aono ^{2,5} , Nobuyoshi Nakajima ² , Masami Koshiyama ³ , Hiroshi Fujisawa ⁴ , Hiroko Isoda ^{1,2} (¹ Alliance for Research on the Mediterranean and North Africa (ARENA), University of Tsukuba, Tsukuba, Japan, ² Faculty of Life and Environmental Sciences, University of Tsukuba, Tsukuba, Japan, ³ Specialty Chemical Division, Zeon Corporation, Chiyoda-ku, Tokyo, Japan, ⁴ Special Adviser, Zeon Corporation, Chiyoda-ku, Tokyo, Japan, ⁵ Biodiversity Division, National Institute for Environmental Studies, Tsukuba, Japan)
12:00	1aA11 Light-harvesting kinetics and spectral heterogeneity of photosystem I assembly intermediates <u>Yutaka Shibata</u> ¹ , Naoya Kaneda ¹ , Sreedhar Nellaepalli ² , Yuichiro Takahashi ² (¹ Grad. Sch. Sci., Tohoku Univ., ² RIIS, Okayama Univ.)	1aB11 A plant-derived antifungal agent, poaic acid, inhibits germination and tube growth of lily pollen <u>Nanami Kobayashi</u> ¹ , Yoshikazu Ohya ² , Yasuko Hayashi ³ , Shuh-ichi Nishiawa ³ (¹ Grad. Sch. Sci. Tech., Niigata, ² Grad. Sch. Front. Sci, Univ. Tokyo, ³ Fac. Sci. Niigata Univ.)			1aE11 Δ^4 -dinor-OPDAs, novel ancestral jasmonates of <i>Marchantia polymorpha</i> <u>Takuya Kajii</u> ¹ , Hidenori Yoshimatsu ¹ , Nobuki Kato ¹ , Haruka Sakurai ¹ , Gangqiang Yang ² , Guillermo H. Jimenez-Aleman ³ , Roberto Solano ³ , Minoru Ueda ^{1,4} (¹ Grad. Sch. Sci., Tohoku Univ., ² Sch. Pharmacy, Yantai Univ., ³ CNB-CSIC, ⁴ Grad. Sch. Life Sci., Tohoku Univ.)
12:15	1aA12 Environmental responses of photosystem I light-harvesting activity in rice leaves <u>Daisuke Takagi</u> (Setsunan University, Faculty of Agriculture)				1aE12 Jasmonate inhibits plant growth through the regulation of endogenous gibberellin levels <u>Jutarou Fukazawa</u> ¹ , Kazuya Mori ¹ , Ryota Mori ¹ , Hiroki Ando ¹ , Yuri Kanno ² , Mitsunori Seo ² , Yohsuke Takahashi ¹ (¹ Grad Sch. Int. Sci. Life, Hiroshima Univ., ² CSRS, Riken)

Room F	Room G	Room H	Room I	Room X	Room Y	Room Z	Time
Environmental response B/ Environmental stresses	Development/Morphogenesis	Photoreceptors/ Photoresponses	Systems biology				
<p>1aF09 Functional analyses of sensor histidine kinases regulating ABA and osmostress signaling in the moss <i>Physcomitrium patens</i> <u>Marcos Takeshi Miyabe</u>¹, Hiroki Matsumura¹, Tsukasa Toriyama¹, Daisuke Takezawa², Izumi Yotsui¹, Teruaki Taji¹, Yoichi Sakata¹ (¹Dept. of Biosci., Tokyo Univ. of Agri., ²Grad. Sch. Sci. Eng., Saitama Univ.)</p>	<p>1aG09 Cytokinin works downstream of the KL signaling pathway to control vegetative reproduction in <i>Marchantia polymorpha</i> <u>Aino Komatsu</u>¹, Mizuki Fujibayashi², Fukutaro Hosoya², Kazato Kumagai¹, Hidemasa Suzuki¹, Kyoichi Kodama¹, Yohei Mizuno¹, Yumiko Takebayashi³, Mikiko Kojima³, Hitoshi Sakakibara^{3,4}, Xiaonan Xie⁵, Satoshi Naramoto^{1,6}, Junko Kyoizuka¹ (¹Grad. Sch., Life Sci., Tohoku Univ., ²Fac. Sci., Tohoku Univ., ³RIKEN, CSRS, ⁴Grad. Sch., Bioagri. Sci., Nagoya Univ., ⁵Ctr. for Biosci. Res. & Educ., Utsunomiya Univ., ⁶Fac. Sci., Hokkaido Univ.)</p>		<p>1aI09 Automatic Quantification of <i>Arabidopsis</i> Stomatal Aperture Using Deep Learning <u>Momoko Takagi</u>¹, Rikako Hirata², Yusuke Aihara^{1,3}, Yuki Hayashi⁴, Miya Mizutani-Aihara¹, Eigo Ando⁵, Megumi Yoshimura-Kono⁶, Masakazu Tomiyama⁶, Toshinori Kinoshita^{1,4}, Akira Mine², Yosuke Toda^{1,6} (¹ITbM, Nagoya Univ., ²Grad. Sch. Agr., Kyoto Univ., ³JST PRESTO, ⁴Grad. Sch. Sci., Nagoya Univ., ⁵Sch. Sci. Univ. Tokyo, ⁶Phytometrics Co., Ltd.)</p>	Symposium S01	Symposium S02	Symposium S03	11:30
<p>1aF10 E Targeted in vivo mutagenesis of a sensor histidine kinase responsible for ABA signaling in the moss <i>Physcomitrium patens</i> <u>Rahul Sk</u>¹, Marcos Takeshi Miyabe¹, Daisuke Takezawa², Shunsuke Yajima¹, Izumi Yotsui¹, Teruaki Taji¹, Yoichi Sakata¹ (¹Dept. of Biosci., Tokyo Univ. of Agri., ²Grad. Sch. Sci. Eng., Saitama Univ.)</p>	<p>1aG10 A Rice Cleistogamous Mutant, <i>cls3</i>, Shows Hampered Swelling Ability of Lodicules <u>Takeshi Kuroha</u>¹, Mayumi Kimizu¹, Akihito Nozaka¹, Yoshihiro Kawahara², Hitoshi Yoshida¹ (¹Inst. Agrobiological Sci., NARO, ²Res. Ctr. Advanced Analysis, NARO)</p>			Exploratory genomic evolutions and reproductive adaptations in plants (9:30–12:30)	Plant Strategies for Survival Revealed from Regulatory System of Resource Allocation (9:30–12:30)	Current development of genome editing: From various novel tools to potential applications (9:30–12:30)	11:45
<p>1aF11 Functional Analysis of SAL1-PAP Retrograde Signaling in the moss <i>Physcomitrium patens</i> <u>Tomoki Otani</u>, Izumi Yotsui, Teruaki Taji, Yoichi Sakata (Department of Bioscience, Tokyo University of Agriculture)</p>	<p>1aG11 Genome Sequencing of a Multicellular Zygnematophycean Alga <i>Spirogyra parvula</i> and Comparison with Unicellular Zygnematophyceans and Embryophytes <u>Tomoaki Nishiyama</u>¹, Hisato Ikegaya², Tomoyuki Takano^{2,3}, Hidetoshi Sakayama², Hiroyuki Sekimoto⁴ (¹Kanazawa Univ., ²Kobe Univ., ³Univ. Tokyo, ⁴Japan Women's Univ.)</p>						12:00
<p>1aF12 E Abscisic acid-induced osmostress tolerance mediated by the EIN2-related Nrap-family proteins in the moss <i>Physcomitrium patens</i> <u>Md. Masudul Karim</u>^{1,2}, Mousona Islam¹, Kanata Hirota¹, Yoichi Sakata³, Daisuke Takezawa¹ (¹Graduate School of Science and Engineering, Saitama University, Saitama, 338-8570, Japan, ²Department of Crop Botany, Bangladesh Agricultural University, Mymensingh-2202, Bangladesh, ³Department of Bioscience, Tokyo University of Agriculture, Tokyo, 156-8502, Japan)</p>	<p>1aG12 Establishing genome information for mutant resources of the National BioResource Project Morning Glories <u>Atsushi Hoshino</u>^{1,2}, Kenta Shirasawa³, Tetsuya Yamada⁴, Atsushi Toyoda⁵, Eiji Nitasaka⁶ (¹NIBB, ²SOKEKENDAI, ³Kazusa DNA Res. Inst., ⁴Grad. Sch. Agri., Tokyo Univ. Agri. Tech., ⁵NIG, ⁶Grad. Sch. Sci., Kyushu Univ.)</p>						12:15




● Day 1, Wed., March 15, PM (14:00–17:00)

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis	Biomembrane/ Ion and solute transport	Genome function/ gene regulation	Specialized (secondary) metabolism	Reproduction
14:00	<p>1pA01 The Role of PGR1 in the Photoprotection of Photosystem I in the Green Alga <i>Chlamydomonas reinhardtii</i> <u>Hiroko Takahashi</u>¹, Kenta Takayama¹, Atsuko Isu², Ken-ichi Wakabayashi², Toru Hisabori², Yoshitaka Nishiyama¹ (¹Graduate School of Science and Engineering, Saitama University, ²Laboratory for Chemistry and Life Science, Institute of Innovative Research, Tokyo Institute of Technology)</p>	<p>1pB01 Investigation on the possible involvement of phosphatidic acid in the polar localization of silicon transporter Lsi1 in rice <u>Noriyuki Konishi</u>, Jian Feng Ma (IPSR Okayama Univ)</p>	<p>1pC01 A feedback mechanism of polyamine synthesis via translational control by a non-AUG-initiated upstream ORF and an RNA secondary structure <u>Yuta Hiragori</u>¹, Miharu Yasumuro², Atsushi Kaido¹, Taihei Karino¹, Yui Yamashita¹, Satoshi Naito¹, Hitoshi Onouchi¹ (¹Grad. Sch. Agr. Hokkaido Univ., ²Sch. Agr. Hokkaido Univ.)</p>	<p>1pD01 Investigation of the (+)-pisatin biosynthesis in pea (<i>Pisum sativum</i> L.) based on transcriptome analysis <u>Kai Uchida</u>¹, Masami Yokota Hirai^{1,2} (¹RIKEN CSRS, ²Grad Sch Bioagric Sci, Nagoya Univ)</p>	<p>1pE01 E Dynamics of male mitochondria in rice zygotes and partial retention of male mitochondrial DNA in rice plant <u>Hanifah Aini</u>¹, Kasidit Rattanawong¹, Mari Tanaka², Hiroyuki Tsuji², Takashi Okamoto¹ (¹Grad. Sch. Sci., Tokyo Met. Univ., ²Kihara Inst., Yokohama City Univ.)</p>
14:15	<p>1pA02 Environments of Coordinates for High Spin S₂ Intermediate in the Oxygen Evolving Complex Measured by Multi-frequency EPR <u>Hiroyuki Mino</u>¹, Shinya Kaosaki², Yoshiki Nakajima³, Jian-Ren Shen^{3,4} (¹Grad. Sch. Sci., Nagoya Univ., ²Fac. Sci., Nagoya Univ., ³Res. Inst. Interdiscip. Sci., Okayama Univ., ⁴Key Lab. Photobiol. Inst. Botany, Chinese Acad. Sci., China)</p>	<p>1pB02 E Functional characterization of two genes involved in phosphorus loading into barley grains <u>Hengliang Huang</u>, Hiroshi Hisano, Sheng Huang, Namiki Mitani-Ueno, Kazuhiro Sato, Naoki Yamaji, Jian Feng Ma (Institute of Plant Science and Resources, Okayama University)</p>	<p>1pC02 Gene expression analysis of <i>Arabidopsis</i> tRNA-wobbleU modification mutants <u>Yumi Nakaj</u> (Dept. of Biochemistry, Osaka Medical and Pharmaceutical Univ.)</p>	<p>1pD02 Two Peroxisomal 4-Coumaroyl-CoA Ligases are Involved in Shikonin Biosynthesis of <i>Lithospermum erythrorhizon</i> <u>Kohei Nakanishi</u>¹, Hao Li¹, Takuji Ichino¹, Kanade Tatsumi¹, Keishi Osakabe², Bunta Watanabe³, Koichiro Shimomura⁴, Kazufumi Yazaki¹ (¹RISH, Kyoto Univ., ²Faculty of Biosci. and Bioind., Tokushima Univ., ³Chem. Lab., The Jikei Univ. School of Medicine, ⁴Graduate School of Life Sci., Toyo Univ.)</p>	<p>1pE02 Histological analysis of the indehiscent anthers caused by the mitochondrial gene <i>orf312</i> in Tadukan-type cytoplasmic male sterile rice <u>Ayumu Takatsuka</u>¹, Tomohiko Kazama², Kinya Toriyama¹ (¹Grad. Sch. Agri. Sci., Tohoku Univ., ²Fac. Agri. Sci., Kyushu Univ.)</p>
14:30	<p>1pA03 Evaluation of the redox potential of tyrosine D in photosystem II <u>Yuki Kato</u>, Sohei Iwado, Ayaho Masamoto, Hiroyuki Mino, Takumi Noguchi (Grad. Sch. Sci., Nagoya Univ.)</p>	<p>1pB03 E OsMGT2 mediates the translocation and preferential distribution of magnesium in rice <u>Sheng Huang</u>, Naoki Yamaji, Jian Feng Ma (Institute of Plant Science and Resources, Okayama University)</p>	<p>1pC03 ChIP-seq analysis of cold shock protein involved in growth regulation in dinoflagellate <i>Breviolum minutum</i> <u>Shizue Yoshihara</u>¹, Yohei Minakuchi², Atsushi Toyoda², Hayato Tokumoto¹ (¹Grad. Sch. Sci., Osaka Metro. Univ., ²Comp. Genom. Lab., NIG)</p>	<p>1pD03 Analysis of the proanthocyanidin biosynthesis pathway <u>Rei Kawamata</u>, Takayuki Tohge, Mutsumi Watanabe, Aoi Shimeno (NARA INSTITUTE OF SCIENCE AND TECHNOLOGY DIVISION OF BIOLOGICAL SCIENCE)</p>	<p>1pE03 Investigation of Ca²⁺ and vesicle localization inside pollen of cytoplasmic male sterile tomato <u>Kosuke Kuwabara</u>¹, Tohru Ariizumi² (¹Grad. Sch. Sci. and Tech., Univ. Tsukuba, ²Fac. Life Env. Sci., Univ. Tsukuba)</p>
14:45	<p>1pA04 Effects of site-directed mutations at D1-R140 interacting with one phosphatidylglycerol molecule (PG714) on structure, function, and assembly of PSII <u>Yoshiki Tanase</u>¹, Toshiyuki Shinoda¹, Kaichiro Endo², Tatsuya Tomo³, Jian-Ren Shen⁴, Haruhiko Jimbo², Hajime Wada², Naoki Mizusawa^{1,5} (¹Fac. Biosci. Appl. Chem., Hosei Univ., ²Grad. Sch. Arts Sci., Univ. Tokyo, ³Grad. Sch. Sci., Tokyo Univ. Sci., ⁴RIIS, Okayama Univ., ⁵Res. Micro-Nano Tech., Hosei Univ.)</p>	<p>1pB04 E Physiological and molecular characterization of high Mn tolerance in Cd/Zn hyperaccumulator <i>Sedum alfredii</i> <u>Jun Ge</u>, Jian Feng Ma (Institute of Plant Science and Resources, Okayama University)</p>	<p>1pC04 Analysis of the dicing activity of DCL4 for expression of the bicolor trait in dahlia <u>Kazunori Kuriyama</u>¹, Sho Ohno², Midori Tabara³, Hiromitsu Moriyama¹, Toshiyuki Fukuhara¹ (¹Tokyo Univ. of Agri. and Tech., ²Kyoto Univ., ³Ritsumeikan Univ.)</p>	<p>1pD04 Identification and characterization of C-glycosyltransferases from <i>Carthamus tinctorius</i> L. <u>Mei Kadowaki</u>¹, Toshiyuki Waki¹, Naoki Fujita², Kazuki Numanoi¹, Tomoya Sato¹, Miho Terashita¹, Keishi Fukuda², Mikiya Kato³, Takashi Negishi³, Hiromi Uchida³, Yuichi Aoki⁴, Goro Taguchi⁵, Seiji Takahashi¹, Toru Nakayama¹ (¹Grad. Sch. Eng., Tohoku Univ., ²TOYO INK SC HOLDINGS Co., Ltd., ³TOYO CHEM Co., Ltd., ⁴Tohoku Medical Megabank Organization, ⁵Facult. Textile Sci. Technol., Shinshu Univ.)</p>	<p>1pE04 Discovery of Candidate Genes for Potato β-CMS <u>Rika Nakajima</u>¹, Kosuke Kuwabara², Natsuki Odate¹, Kenta Shirasawa³, Tohru Ariizumi⁴ (¹Fac. Agro-Bio Res., Univ. Tsukuba, ²Grad. Sch. Sci. and Tech., Univ. Tsukuba, ³Kazusa DNA Res. Inst., ⁴Fac. Life Env. Sci., Univ. Tsukuba)</p>

Room F	Room G	Room H	Room I	Room X	Room Y	Room Z	Time
Environmental response B/ Environmental stresses	Development/ Morphogenesis	Plant-organism interaction B	Systems biology		New technology		
<p>1pF01 Observation of Ca²⁺ propagation with a near-infrared femtosecond laser <u>Takumi Tobita</u>¹, Kensuke Shiina¹, Takumi Tomoi^{2,3}, Yukiko Kabeya⁴, Mitsuyasu Hasebe^{4,5}, Masatsugu Toyota⁶, Yoshio Hayasaki⁷, Satoshi Hasegawa⁷, Yosuke Tamada^{1,3,4,5,7,8} (1)Grad. Sch. Reg. Dev. Creat., Utsunomiya Univ., (2)Ctr. Innov. Spt., Utsunomiya Univ., (3)Sch. Eng., Utsunomiya Univ., (4)Div. Evol. Biol., Natl. Inst. Basic Biol., (5)Sch. Life Sci., SOKENDAI, (6)Dept. Biochem. Mol. Biol., Saitama Univ., (7)CORE, Utsunomiya Univ., (8)REAL, Utsunomiya Univ.)</p> <p>1pF02 Evaluation of diagnosis techniques for excessive shading stress in tea plants using delayed fluorescence <u>Keitaro Koike</u>¹, Yuhei Hirono^{2,3}, Masakazu Katsumata⁴, Hiroto Yamashita^{1,2}, Takashi Ikka^{1,3,5} (1)Graduate school of Agriculture, Shizuoka University, (2)Institute of Fruit Tree and Tea Science, NARO, (3)Institute for Tea Science, Shizuoka University, (4)HAMAMATSU PKOTONICS K. K., (5)Research Institute of Green Science and Technology, Shizuoka University)</p> <p>1pF03 Spatiotemporal oxygen imaging: Visualization of oxygen dynamics during rice underwater germination using a planar oxygen optode <u>Hinako Shiba</u>¹, Akiko Koshide¹, Morten Larsen², Kazunari Iwasaki¹, Takeshi Fukao¹, Kazumasa Oguri², Ronnie N. Glud², <u>Katsuhiro Shiono</u>¹ (1)Grad. Sch. Biosci. Biotech., Fukui Pref. Univ., (2)HADAL and Nordcee, Univ. South. Denmark)</p> <p>1pF04 Changes in the photosynthetically related anatomical characteristics of the heterophyllous amphibious plant <i>Hygrophila difformis</i> after submersion <u>Genki Horiguchi</u>¹, Yusuke Mizokami¹, Naoki Hirotsu², Ko Noguchi¹ (1)Sch. Life Sci, Tokyo Univ. Pharm. Life Sci., (2)Sch. Life Sci. Toyo Univ.)</p>	<p>1pG01 Brassinosteroid receptor-mediated regulation of tissue regeneration in <i>Arabidopsis</i> Ye Zhang, Kazuki Suita, Naoki Takahashi, <u>Masaaki Umeda</u> (Grad. Sch. Sci. Tech., NAIST)</p> <p>1pG02 Regulatory roles of WOX13 to repress shoot regeneration in <i>Arabidopsis thaliana</i> <u>Nao Ogura</u>^{1,2}, Momoko Ikeuchi² (1)Grad. Sch. Sci., Niigata Univ., (2)NAIST, Bio)</p> <p>1pG03 Single-cell Transcriptomic Analysis of Epidermal Reprogramming in Direct Shoot Regeneration <u>Hatsune Morinaka</u>¹, Shi Dongbo^{1,2}, Ayako Kawamura¹, Akihito Mamiya³, Hiroaki Tamaki⁴, Takamasa Suzuki⁵, Akira Iwase¹, Tetsuya Higashiyama⁴, Munetaka Sugiyama⁴, Keiko Sugimoto^{1,4} (1)CSRS, RIKEN, (2)IBB, Univ. Potsdam, Brandenburg, Germany, (3)Dept. Biol., Grad. Sch. Sci., Kobe Univ., (4)Dept. Biol. Sci., Grad. Sch. Sci., Univ. Tokyo, (5)Dept. Biol. Chem., Coll. Biosci. Biotech., Chubu Univ)</p> <p>1pG04 Molecular mechanisms of developmental reprogramming in differentiated leaf mesophyll cells <u>Yuki Sakamoto</u>^{1,2}, Ayako Kawamura², Takamasa Suzuki³, Shoji Segami^{4,5}, Masayoshi Maeshima³, Stefanie Polyn^{6,7}, Lieven De Veylder^{6,7}, Keiko Sugimoto^{1,2} (1)Grad. Sch. Sci., Univ. Tokyo, (2)CSRS, RIKEN, (3)Col. Biosci. Biotech., Chubu Univ., (4)NIBB, (5)SOKENDAI, (6)Ghent Univ., (7)Plant Sys. Biol., VIB-UGhent)</p>	<p>1pH01 Development of a live imaging system for visualizing legume-rhizobium interactions <u>Hanna Nishida</u>, Yoshikazu Shimoda, Haruko Imaizumi-Anraku (NARO)</p> <p>1pH02 NDR1/HIN1-Like protein 13 regulates nodulation <u>Akihiro Yamazaki</u>¹, Kai Battenberg¹, Yoshikazu Shimoda², Makoto Hayashi^{1,2} (1)Center for Sustainable Resource Science, RIKEN, (2)Institute of Agrobiological Sciences, National Agriculture and Food Research Organization)</p> <p>1pH03 E Functional diversity and phylogenetic classification of lysin motif receptor-like kinases (LysM-RLKs) in land plants <u>Hafijur Ruman</u>¹, Masanori Saito², Yasuyuki Kawaharada^{1,2} (1)United Grad. Sch. of Agri. Sci. Iwate Uni., (2)Dep. of Plant Bio. Fac. of Agri. Iwate Uni.)</p> <p>1pH04 Control of nodule formation and shoot water homeostasis in <i>Lotus japonicus</i> <u>Kensuke Kawade</u>^{1,2,3}, Daisuke Sugiura⁴, Akira Oikawa^{3,5}, Masayoshi Kawaguchi^{1,2} (1)Division of symbiotic systems, National Institute for Basic Biology (NIBB), (2)School of Life Science, Graduate University for Advanced Studies (SOKENDAI), (3)RIKEN Center for Sustainable Resource Science (RIKEN CSRS), (4)Graduate School of Bioagricultural Sciences, Nagoya University, (5)Graduate School of Agriculture, Kyoto University)</p>	<p>1pI01 Optimization of sampling conditions for predicting gene expression in rice <u>Dan Ejiju</u>¹, Tarou Maeda², Satoshi Okubo³, Makoto Kashima², Daisuke Kyougoku⁶, Yoichi Hashida⁷, Naoya Mori⁸, Hiroyuki Watanabe⁸, Shunsuke Adachi⁴, Atsushi J. Nagano^{2,3}, Masaru Tomita^{1,2} (1)Dept. Environment & Info. Studies., Keio Univ., (2)IAB, Keio Univ., (3)Res. Inst. Food Agr. Ryukoku Univ., (4)Institute of Agriculture, Tokyo University of Agriculture and Technology, (5)Coll. Sci. Eng., Aoyama Gakuin Univ., (6)Museum of Nature and Human Activities, (7)Faculty of Agriculture, Takasaki University of Health and Welfare, (8)Faculty of Agriculture, Tamagawa University, (9)LifeScience, Tohoku University)</p> <p>1pI02 E The coexpression map provides an entry point for exploring gene coexpression space in ATTED-II v11 <u>Takeshi Obayashi</u> (Tohoku Univ)</p> <p>1pI03 Designing Rhizosphere Microbial Communities for Promoting Tomato Growth <u>Yuichi Aoki</u>^{1,2}, Shinichi Yamazaki¹, Masaru Nakayasu³, Keiko Kanai³, Rumi Kaida⁴, Yoshiharu Fujii⁴, Akifumi Sugiyama³ (1)ToMMo, Tohoku Univ., (2)Grad. Sch. Info. Sci., Tohoku Univ., (3)RISH, Kyoto Univ., (4)Tokyo Univ. of Agriculture and Technology)</p> <p>1pI04 Databases for discovering plant species-specific unknown metabolites <u>Nozomu Sakurai</u>^{1,2,3}, Shinichi Yamazaki⁴, Kunihiko Suda², Ai Hosoki¹, Nayumi Akimoto², Haruya Takahashi⁵, Daisuke Shibata², Yuichi Aoki^{4,6} (1)National Institute of Genetics, (2)Kazusa DNA Res Inst., (3)Sakura Sci., (4)ToMMo, Tohoku Univ., (5)Grad. Sch. Agr., Kyoto Univ., (6)Grad. Sch. Info. Sci., Tohoku Univ.)</p>	<p>Symposium S04 Artificial designs of plant-soil-microbe relationships stop global warming (14:00-17:00)</p>	<p>1pY01 Targeted base editing in <i>Arabidopsis</i> nuclear genes via DNA recognition by TALE domains <u>Ayako Hosoda</u>¹, Issei Nakazato¹, Miki Okuno², Takehiko Itoh³, Hideki Takanashi¹, Nobuhiro Tsutsumi¹, Shin-ichi Arimura¹ (1)Grad. Sch. of Agri. Life Sci., The Univ. of Tokyo, (2)Sch. of Med., Kurume Univ., (3)Sch. of Life Sci. and Tech., Tokyo Institute of Tech.)</p> <p>1pY02 Targeted base editing in chloroplast genome of <i>Arabidopsis thaliana</i> with a highly active base editor <u>Issei Nakazato</u>, Nobuhiro Tsutsumi, Shin-ichi Arimura (Grad. Sch. of Agr. and Life Sci., Univ. of Tokyo)</p> <p>1pY03 Trials of Random Mutagenesis for Plant Organelle Genomes in <i>Arabidopsis thaliana</i> <u>Yoshiki Harada</u>, Issei Nakazato, Nobuhiro Tsutsumi, Shin-ichi Arimura (Grad. Sch. of Agri. Life Sci., The Univ. of Tokyo)</p> <p>1pY04 E Targeted-base editing by TALE-based adenine deaminases for organelle genomes in <i>Arabidopsis</i> <u>Chang Zhou</u>, Issei Nakazato, Yoshiko Tamura, Reiko Masuda, Nobuhiro Tsutsumi, Shin-ichi Arimura (Grad. Agri., Univ. Tokyo)</p>	<p>Symposium S05 Circadian and Seasonal Mechanisms in Plant Development and Physiology (14:00-17:00)</p>	<p>14:00</p> <p>14:15</p> <p>14:30</p> <p>14:45</p>

● Day 1, Wed., March 15, PM (14:00–17:00)

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis	Biomembrane/ Ion and solute transport	Genome function/ gene regulation	Specialized (secondary) metabolism	Reproduction
15:00	1pA05 Galactolipase enhances the degradation of D1 during the PSII repair <u>Haruhiko Jimbo</u> , Hajime Wada (Graduate School of Arts and Sciences, University of Tokyo)	1pB05 Linking root morphology and anatomy with boron uptake in rice <u>Toshiki Fujii</u> , Naoki Yamaji, Jian Feng Ma (IPSR, Okayama Univ.)	1pC05 Translatome analysis of TMV-infected <i>Arabidopsis thaliana</i> <u>Yuma Tsukada</u> ¹ , Yukio Kurihara ^{2,4} , Yuko Makita ³ , Masaharu Kawauchi ⁴ , Minami Matsui ⁴ , Yuichiro Watanabe ² (Col. Sch. Arts Sci., Univ. Tokyo, ² Grad. Sch. Arts Sci., Univ. Tokyo, ³ Fac. Eng. Maebashi Inst. Tech, ⁴ RIKEN CSRS)	1pD05 Anthocyanin synthesis potential in betalain-producing Caryophyllales plants <u>Masaaki Sakuta</u> ^{1,4} , Asuka Tanaka ¹ , Kaori Iwase ¹ , Mizuki Miyasaka ¹ , Sachiko Ichiki ¹ , Miho Hatai ¹ , Yoriko Inoue ¹ , Ayumi Yamagami ² , Takeshi Nakano ² , Kazuko Yoshida ¹ , Setsuko Shimada ³ (¹ Biol., Ochanomizu Univ., ² Grad. Sch. Bio., Kyoto Univ., ³ CSRS, Riken, ⁴ OSRI, Meiji Univ.)	1pE05 Cuticles inhibit the pollen germination process as an interspecies reproductive barrier in Brassicaceae <u>Yoshinobu Kato</u> ^{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)
15:15	1pA06 Mechanism of the photoinhibition of photosystem II under strong UV-A illumination in <i>Synechocystis</i> sp. PCC 6803 <u>Shunta Kojima</u> , Yoshitaka Nishiyama (Grad. Sch. Sci. Eng., Saitama Univ)	1pB06 Functional analyses of guard-cell-type ALMT proteins <u>Takayuki Sasaki</u> , Yoko Yamamoto, Izumi Mori (Institute of Plant Science and Resources, Okayama University)	1pC06 Screening of suppressors for Arabidopsis <i>drol1</i> mutant <u>Takamasa Suzuki</u> , Tomoko Niwa, Gaiki Ono, Daisuke Aramaki, Yuuma Ito, Yuriko Inami, Itsuki Inoue (Col. Biosci. Biotech., Chubu Univ.)	1pD06  Characterization of tomato high sugar mutant <i>hs1</i> <u>Shaoze Yuan</u> , Islam M Y Abdellatif, Siyan Xu, Tohru Ariizumi, Hiroshi Ezura, Kenji Miura (Graduate School of Life and Earth Science, University of Tsukuba)	1pE06 Biochemical analysis of the functional role of cysteine residues in SPR11 involving Brassicaceae interspecies incompatibility <u>Shun Tadokoro</u> ¹ , Yoshinobu Kato ^{1,2} , Shota Ishida ¹ , Yuka Kimura ¹ , Seiji Takayama ¹ , Sota Fujii ^{1,3} (¹ Grad. Sch. Agric. Life Sci., Univ. Tokyo, ² JST PRESTO, ³ Suntory SunRISE)
15:30	1pA07 Photoprotective roles of carotenoid glycosides in photosystem II during high-light acclimation in <i>Synechocystis</i> sp. PCC 6803 <u>Moeka Onda</u> ¹ , Ikumi Kaihatsu ² , Taichi Izuhara ¹ , Shinichi Takaichi ³ , Yoshitaka Nishiyama ^{1,2} (¹ Grad. Sch. Sci. Eng., Saitama Univ., ² Dept. Biochem. Mol. Biol., Saitama Univ., ³ Dept. Mol. Microbiol., Faculty of Life Science, Tokyo Univ. Agriculture)	1pB07 KUP9-mediated potassium distribution in <i>Arabidopsis thaliana</i> under low K ⁺ stress <u>Taro Yamanashi</u> ¹ , Takeshi Uchiyama ¹ , Shunya Saito ¹ , Taiki Higashi ¹ , Hayato Ikeda ^{2,3} , Hidetoshi Kikunaga ² , Mutsumi Yamagami ⁴ , Yasuhiro Ishimaru ¹ , Nobuyuki Uozumi ¹ (¹ Grad. Sch. Eng., Univ. Tohoku, ² ELPH, Univ. Tohoku, ³ CYRIC, Univ. Tohoku, ⁴ Inst for Env Sci)	1pC07 Cytokinin-dependent Regulation of Cell Potency is Regulated by pre-mRNA Splicing <u>Ami Takeuchi</u> ¹ , Kenji Nagamiya ² , Takuyuki Ikeda ² , Iwai Ohbayashi ² , Munetaka Sugiyama ² , Misato Ohtani ^{1,3,4} (¹ Grad. Sch. Front. Sci., Univ. Tokyo, ² Grad. Sch. Sci., Univ. Tokyo, ³ Div. Bio. Sci., NAIST, ⁴ CSRS, RIKEN)	1pD07 Functional analysis of sulfur deficiency responsive genes in <i>Glycine max</i> <u>Aina Ieda</u> , Takayuki Tohge, Mutsumi Watanabe (Grad. Sch. Sci., Tech., NAIST)	1pE07 Induced co-recessive of pollen-side self-incompatible genes by modified small RNAs in Brassicaceae <u>Risa Kobayashi</u> ¹ , Yuko Wada ¹ , Osamu Kataoka ¹ , Natsumi Oi ¹ , Shinsuke Yasuda ¹ , Hiroshi Shiba ² , Seiji Takayama ³ , Toshiro Ito ¹ (¹ Grad. Sch. of Biol. Sci., Nara Inst. of Sci. and Tech., ² Grad. Sch. of Life Env., Univ. of Tsukuba, ³ Grad. Sch. of Agri. Life Sci. Tokyo Univ.)
15:45	1pA08  Improved capacity of photosystem II for minimizing photoinhibition via modification of translation and antioxidative systems in <i>Synechocystis</i> sp. PCC 6803 <u>Pornpan Napaumpaiporn</u> , Yoshitaka Nishiyama (Grad. Sch. Sci. Eng., Saitama Univ.)	1pB08 Evaluation of sodium tolerance in Arabidopsis with tissue-specific expression of Na ⁺ /H ⁺ antiporter SOS1 Mio Nagoya, Tomoki Nagata, Takaaki Ogura, Yuko Kurita, Natsuko I. Kobayashi, <u>Keitaro Tanoi</u> (Grad. Sch. Agri. Life Sci. U Tokyo)	1pC08 Arabidopsis Dim1 homolog, a subunit of U5 snRNP, is involved in nutrient stress response <u>Kodai Ishibashi</u> ¹ , Toshiro Arae ¹ , Takeshi Yoshizumi ² , Yukio Kurihara ^{2,3} , Takashi Kuromori ² , Minami Matsui ² , Misato Ohtani ^{1,2} (¹ GSFS., Univ. Tokyo, ² RIKEN, CSRS, ³ Grad. Sch. Art. Sci., Univ. Tokyo)	1pD08 Identification of genes reducing oxalate accumulation in spinach using VIGS <u>Shoya Ichikawa</u> ¹ , Kazuhiro Ishibashi ² , Tadasu Frusho ³ , Izumi Yotsui ¹ , Yoichi Sakata ¹ , Teruaki Tajiri ¹ (Dept. of Biosci., Tokyo Univ. of Agri, ² National Agriculture and Food Research Organization, ³ Department of International Food and Agricultural Science, Tokyo university of agriculture)	1pE08  Identification of a novel U-chromosomal gene required for egg cell differentiation in <i>Marchantia polymorpha</i> <u>Yen-Ting Lu</u> ¹ , Yihui Cui ¹ , Masaki Shimamura ² , Sakiko Ishida ¹ , Tomoaki Kajiwara ³ , Tetsuya Hisanaga ^{1,4} , Takayuki Kohchi ³ , Tatsuaki Goh ¹ , Keiji Nakajima ¹ (¹ Grad. Sch. Biol. Sci., NAIST, ² Grad. Sch. Integr. Sci. Life, Hiroshima Univ., ³ Grad. Sch. Biostudies, Kyoto Univ., ⁴ Gregor Mendel Institute)

Room F	Room G	Room H	Room I	Room X	Room Y	Room Z	Time
Environmental response B/ Environmental stresses	Development/ Morphogenesis	Plant-organism interaction B	Systems biology		New technology		
<p>1pF05 Locally Introduced Atypical HLH Factors Control Coordinated Elongation of Non-Transformed Cells <u>Yosuke Takeuchi</u>¹, Yuzuru Tozawa¹, Miho Ikeda^{1,2} (¹Grad. Sch. Shi., Saitama Univ., ²Biosci. Biotech., Fukui Pref. Univ.)</p> <p>1pF06 Molecular regulatory mechanism of the ROS-producing enzymes, Rbohs, by phosphorylation of conserved serine residues and Ca²⁺ binding in land plants <u>Takafumi Hashimoto</u>¹, Kenji Hashimoto¹, Takuya Miyakawa², Masaru Tanokura³, Kazuyuki Kuchitsu¹ (¹Dept. Appl. Biol. Sci., Tokyo Univ. of Science, ²Grad. Sch. Biostudies., Kyoto Univ., ³Grad. Sch. Agri. and Life Sci., Univ. of Tokyo)</p> <p>1pF07 Identification of Protein Kinases Involved in the Post-translational Regulation of the Stress-Responsive Transcription Factor DREB2A <u>Touko Nakazawa</u>¹, So Sugimoto¹, Ryosuke Takahashi¹, Haruho Funamori¹, Fuminori Takahashi², Norihito Nakamichi^{3,4}, Toshinori Kinoshita^{3,4}, Kazuo Shinozaki², Kazuko Yamaguchi-Shinozaki^{1,5}, Junya Mizoi¹ (¹Grad. Sch. Agr. Life Sci., Univ. Tokyo, ²Center for Sustainable Resource Science, RIKEN, ³ITbM, Nagoya Univ., ⁴Grad. Sch. Sci. Nagoya Univ., ⁵Res. Inst. Agr. Life Sci., Tokyo Univ. Agr.)</p> <p>1pF08 Functional analysis of salt stress tolerance by insect hormone in plants <u>Kaori Sako</u>^{1,2}, Suzuka Kurata¹, Ayaka Kimura¹, Mari Horiguchi¹, Huong Nguyen Mai², Akihiro Matsui², Maho Tanaka², Kyoko Mogami³, Atsushi J. Nagano^{3,4}, Masahiro Tamoi¹, Motoaki Seki² (¹Dep. Adv. Biosci., Kindai Univ., ²CSRS, RIKEN, ³Fac. Agri., Ryukoku Univ., ⁴Inst. Adv. Biosci., Keio Univ.)</p>	<p>1pG05  Light signals determine the new meristem fate during <i>de novo</i> organogenesis in <i>Arabidopsis thaliana</i> <u>Yu Chen</u>^{1,2}, David Favero², Ayako Kawamura², Takamasa Suzuki³, Keiko Sugimoto^{1,2} (¹Grad. Sch. Sci., The Univ. of Tokyo, ²CSRS, RIKEN, ³Col. Biosci. Biotech., Chubu Univ.)</p> <p>1pG06 Novel meristematic organ on the cauline leaf of <i>Rorippa aquatica</i> for vegetative reproduction <u>Shuka Ikematsu</u>^{1,2}, Ami Sasaki¹, Rumi Amano¹, Tomoaki Sakamoto^{1,2}, Seisuke Kimura^{1,2} (¹Faculty of Life Sciences, Kyoto Sangyo University, ²Center for Ecological Evolutionary Developmental Biology, Kyoto Sangyo University)</p> <p>1pG07 ABA-Induced Switch from Asymmetric Cell Division to Symmetric Cell Division in the Moss <i>Physcomitrium patens</i> <u>Chiyo Jinno</u>¹, Marcel Pascal Beier², Akihiko Hiroguchi³, Kohei Nakamura¹, Yutaka Suzuki⁴, Tomomichi Fujita³ (¹Grad. Sch. Life Sci., Univ. Hokkaido, ²IAHE, Univ. Hokkaido, ³Fac. Sci., Univ. Hokkaido, ⁴Grad. Sch. Front. Sci., Univ. Tokyo)</p> <p>1pG08  Regulation of developmental phase change in moss <i>Physcomitrium patens</i>, by KAI2-ligand signaling pathway <u>Yi Luo</u>, Yuki Hata, Junko Kyoizuka (Graduate School of Life Sciences, Tohoku University)</p>	<p>1pH05 Natural Variation Related to Nitrate-mediated Control of Nodulation Momoyo Ito¹, Masaru Bamba², Hannou Chen¹, Shohei Nosaki^{1,3}, Yuri Tajima¹, Kenji Miura^{1,3}, Shusei Sato², <u>Takuya Suzuki</u>^{1,3} (¹Fac. Life Sci., Univ. Tsukuba, ²Grad. Sch. Life Sci., Tohoku Univ., ³T-PIRC, Univ. Tsukuba)</p> <p>1pH06 Study on DNA-Binding Property of the Key Transcription Factor that Prompts the Root Nodulation <u>Shohei Nosaki</u>^{1,2,3}, Momona Noda², Kenji Miura^{1,2,3}, Takuya Suzuki^{1,2,3} (¹Fac. of Life and Env. Sci., Univ. of Tsukuba, ²Col. of Biol. Sci., Univ. of Tsukuba, ³T-PIRC., Univ. of Tsukuba)</p> <p>1pH07 Study on an unknown region of NIN transcription factor <u>Momona Noda</u>¹, Hanna Nishida², Momoyo Ito³, Takuya Suzuki^{1,3,4} (¹Bio., Univ. Tsukuba, ²NARO, ³Fac. Life Sci., Univ. Tsukuba, ⁴T-PIRC, Univ. Tsukuba)</p> <p>1pH08 Genome-wide association study for symbiotic preference between <i>Lotus japonicus</i> and <i>Mesorhizobium Masaru Bamba</i>¹, Seishiro Aoki², Tadashi Kajita³, Hiroaki Setoguchi⁴, Yasuyuki Watano⁵, Takashi Tsuchimatsu⁶ (¹Grad. Sci., Tohoku Univ., ²Grad. Front. Sci., Univ. Tokyo, ³TBRC, Univ. Ryukyus, ⁴Grad. Human and Environ. Kyoto Univ., ⁵Faculty of Sci., Chiba Univ., ⁶Science, Univ. Tokyo)</p>	<p>1pI05 Integrated analysis of plant metabolic and genomic information using XMRs <u>Shinichi Yamazaki</u>¹, Nozomu Sakurai^{2,3,4}, Kunihiro Suda³, Ai Hosoki², Nayumi Akimoto³, Haruya Takahashi⁵, Daisuke Shibata³, Yuichi Aoki^{1,6} (¹ToMMo, Tohoku Univ., ²National Institute of Genetics, ³Kazusa DNA Res. Inst., ⁴Sakura Sci., ⁵Grad. Sch. Agr., Kyoto Univ., ⁶Grad. Sch. Info. Sci., Tohoku Univ.)</p> <p>1pI06 SSBD:repository/database: global sharing of bioimaging data <u>Koji Kyoda</u>¹, Hiroya Itoga¹, Fangfang Wang^{1,2}, Yuki Yamagata^{1,2}, Yukako Tohsato³, Shuichi Onami^{1,2} (¹RIKEN BDR, ²RIKEN R-IH, ³Ritsumeikan Univ.)</p> <p>1pI07 Reconstruction of a Nitrogen-Fixing Symbiosis in a Synthetic Biological Approach <u>Shigeru Hanano</u>^{1,2}, Hajime Tomatsu², Eiji Takita², Koichiro Otake², Marika Umetsuki³, Hideki Hirakawa², Sachiko Isobe², Takashi Soyano⁴, Takuya Suzuki⁵, Yoshikazu Shimoda⁶, Toshiaki Uchiyama³, Akiyoshi Tominaga⁷, Hiroshi Masumoto², Masayoshi Kawaguchi⁴, Daisuke Shibata², Shusei Sato¹ (¹Graduate School of Life Sciences, Tohoku University, ²Kazusa DNA Research Institute, ³Department of Sciences, Kagoshima University, ⁴Division of Symbiotic Systems, National institute for Basic Biology, ⁵Faculty of Life and Environmental Sciences, Tsukuba University, ⁶Institute of Agrobiological Sciences, National Agriculture and Food Research Organization, ⁷Faculty of Agriculture, Department of Bioresource Sciences, Shizuoka University/Department of Bioresource Sciences, Shizuoka University)</p> <p>1pI08 Prediction of Temperature Response of Field-Grown Plants Using Laboratory Transcriptome Data <u>Natsuki Havami</u>¹, Miyako Kusano^{2,3}, Kyonoshin Maruyama⁴, Atsushi J. Nagano⁵, Mieko Higuchi², Kosuke Hanada⁶, Minami Matsui², Yoshiharu Y. Yamamoto^{1,2} (¹United Sch. Agric. Sci., Gifu Univ., ²CSRS, RIKEN, ³Fac. Life and Env. Sci., Tsukuba Univ., ⁴JIRCAS, ⁵Fac. Agric., Ryukoku Univ., ⁶Frontier Research Academy for Young Researchers, Kyushu Inst. of Tech.)</p>	<p>Symposium S04 Artificial designs of plant-soil-microbe relationships stop global warming (14:00-17:00)</p>	<p>1pY05 Analysis of processing of the polycistronic tRNA-gRNA precursor that suppressor tRNA is used as a spacer <u>Kazuhito Akama</u>¹, Yasushi Yukawa² (¹Dept. of Life Sci., Fac. of Life and Environ. Sci., Shimane Univ., ²Grad. Sch. of Life Sci., Nagoya City Univ.)</p> <p>1pY06  Precise <i>in planta</i> genome editing via homology-directed repair in wheat <u>Weifeng Luo</u>¹, Rintaro Suzuki¹, Ryojo Imai^{1,2} (¹Institute of Agrobiological Sciences, NARO, ²Faculty of Life and Environmental Sciences, Univ. Tsukuba)</p> <p>1pY07 Highly efficient gene targeting using high-copy-number replicon in rice <u>Satoru Sukegawa</u>¹, Ayako Nishizawa-Yokoi¹, Seiichi Toki^{1,2,3,4}, Hiroaki Saika¹ (¹Institute of Agrobiological Sciences, National Agriculture and Food Research Organization, ²Graduate School of Nanobioscience, Yokohama City University, ³Kihara Institute for Biological Research, Yokohama City University, ⁴Department of Plant Life Science, Faculty of Agriculture, Ryukoku University)</p> <p>1pY08 Peptide-mediated chloroplast transformation and gene delivery into mitochondria by carbon nanotube modified with peptide <u>Masaki Odahara</u>¹, Simon Law¹, Yoko Horii¹, Keiji Numata^{1,2} (¹CSRS, RIKEN, ²Grad. Sch. Eng., Kyoto Univ.)</p>	<p>Symposium S05 Circadian and Seasonal Mechanisms in Plant Development and Physiology (14:00-17:00)</p>	<p>15:00</p> <p>15:15</p> <p>15:30</p> <p>15:45</p>

=Presentation in English

● Day 1, Wed., March 15, PM (14:00–17:00)

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis	Biomembrane/ Ion and solute transport	Genome function/ gene regulation	Specialized (secondary) metabolism	Reproduction
16:00	<p>1pA09 Interspecific comparison of the rate constants of photo-damage and repair of photosystem II between various woody species <u>Shoko Tsujii</u>¹, Kaori Kohzuma², Kumiko Ochiai¹, Kentaro Ifuku¹, Kouki Hikosaka³ (¹Grad. Sch. of Agric., Kyoto Univ., ²Biol. Sci., Univ. Tokyo, ³Grad. Sch. of Life Sci., Tohoku Univ.)</p>	<p>1pB09 Sucrose or gibberellin? —the dissecting role of SWEET13 <u>Reika Isoda</u>¹, Zoltan Palmai¹, Akira Yoshinari¹, Li-Qing Chen², Florence Tama^{1,3,4}, Wolf B. Frommer^{1,5}, Masayoshi Nakamura¹ (¹ITbM, Nagoya Univ., ²Dept. Plant Biol., Univ. Illinois, ³Grad. Sch. Sci., Nagoya Univ., ⁴R-CCS, Riken, ⁵Mol. Physiol., HHU)</p>	<p>1pC09 [Cancelled]</p>		<p>1pE09 Establishing the method of live imaging of <i>Marchantia</i> zygote <u>Sohta Nakamura</u>¹, Yusuke Kimata¹, Yoshikatsu Sato^{2,3}, Minako Ueda¹ (¹Grad. Sch. of Life Sci., Univ. Tohoku, ²WPI-ITbM, Nagoya University, ³Grad. Sch. Sci., Nagoya University)</p>
16:15	<p>1pA10 Higher Reduced State Of Fe/S-clusters, With The Suppressed Oxidation Of P700, Causes PSI Inactivation In <i>Arabidopsis thaliana</i> <u>Shu Maekawa</u>⁴, Riu Furutani^{1,3}, Shinya Wada^{1,3}, Kentaro Ifuku^{2,3}, Chikahiro Miyake^{1,3} (¹Grad. Sch. Agri. Sci., Univ. Kobe, ²Grad. Sch. Agri. Sci., Univ. Kyoto, ³CREST/JST, ⁴Facul. Agri., Univ. Kobe)</p>	<p>1pB10 Transcriptome and hormone analysis of the <i>Arabidopsis</i> zinc transporter IAR1 mutant <u>Miki Kawachi</u>¹, Mikiko Kojima², Yumiko Takebayashi², Hitoshi Sakakibara^{1,2} (¹Grad. Sch. Bioagr. Sci., Nagoya Univ., ²CSRS, RIKEN)</p>	<p>1pC10 Post-transcriptional regulation via poly(A) length control by <i>Arabidopsis</i> deadenylyase, AICCR4 <u>Taku Tokunaka</u>¹, Toshihiro Arae^{1,2}, Seidai Takamatsu¹, Atsushi Toyoda³, Yukako Chiba^{1,4} (¹Grad. Sch. Life Sci., Hokkaido Univ., ²Grad. Sch. Front. Sci., Univ. of Tokyo, ³NIG, ⁴Fac. Sci. Hokkaido Univ.)</p>		<p>1pE10 Function of adenylyl cyclase/cAMP phosphodiesterase gene, <i>CAPE</i>, in <i>Marchantia polymorpha</i> sperm <u>Chiaki Yamamoto</u>¹, Fumio Takahashi¹, Kazumasa Yamada², Shinya Yoshikawa², Noriyuki Suetsugu³, Masahiro Kasahara¹ (¹Grad. Sch. Life Sci., Ritsumeikan Univ., ²Fac. Marine Sci. & Tech., Fukui Pref. Univ., ³Grad. Sch. Arts & Sci., Tokyo Univ.)</p>
16:30	<p>1pA11 The iron-sulfur protein TCR regulates P700 oxidation by the photosynthetic cyclic electron transfer around PSI <u>Fumiaki Sano</u>, Trinh Mai Duy Luu, Shinji Masuda (Department of Life Science and Technology, Tokyo Institute of Technology)</p>	<p>1pB11 Identification and functional characterization of flavin transporters in plants <u>Hikari Kuwata</u>¹, Fumina Nagai², Takanori Maruta^{1,2}, Takahiro Ishikawa^{1,2}, Takahisa Ogawa^{1,2} (¹Grad. Sch. Nat. Sci. Technol., Shimane Univ., ²Dept. Life Sci., Fac. Life Environ. Sci., Shimane Univ.)</p>	<p>1pC11 Multiple uORF-mediated light-dependent translational regulation in the <i>Arabidopsis</i> clock gene <i>LHY</i> <u>Haruka Aoyama</u>¹, Yuma Ise¹, Akinori Takahashi², Tadashi Yamamoto², Yukako Chiba^{1,3} (¹Grad. Sch. Life Sci., Hokkaido Univ., ²OIST, ³Fac. Sci., Hokkaido Univ.)</p>		<p>1pE11 Functional analysis of a gene encoding EF-hand protein, <i>MpCAPS</i>, in the sperm chemotaxis in <i>Marchantia polymorpha</i> <u>Mizuki Morita</u>¹, Katsuyuki T. Yamato² (¹Graduate School of Biology-Oriented Science and Technology, ²Faculty of Biology-Oriented Science and Technology)</p>
16:45	<p>1pA12 The novel <i>Arabidopsis</i> Rieske ISP mutation, <i>pgr</i>^{I^{E143K}} alters the pH sensitivity of the Cyt <i>b_f</i> complex <u>Ryouhei Kobayashi</u>, Toshiharu Shikanai (Grad. Sch. Sci., Kyoto Univ.)</p>				<p>1pE12 Mechanism of reproductive isolation in the liverwort genus <i>Marchantia</i> <u>Yuka Ishii</u>, Masaki Shimamura (Grad. Sch. Integ. Sci. for Life, Hiroshima Univ.)</p>

Room F	Room G	Room H	Room I	Room X	Room Y	Room Z	Time
Environmental response B/ Environmental stresses	Development/ Morphogenesis	Plant-organism interaction B	Systems biology		New technology		
<p>1pF09 Genetic analyses of salt-tolerance mechanism in a salt-tolerant <i>Arabidopsis thaliana</i> Lch-0 <u>Takuma Kajino</u>¹, Kaori Uchiyama¹, Hirota Ariga², Akihisa Shinozawa¹, Izumi Yotsui¹, Yoichi Sakata¹, Teruaki Taji¹ (¹Dept. of Biosci., Tokyo Univ. of Agri, ²Res. Cent. of Gen. Res., NARO)</p>	<p>1pG09 Biochemical Studies on Transcription Elongation in <i>Arabidopsis</i> <u>Ryuji Tsugeki</u>¹, Yoko Ikeda², Hitoshi Mori³ (¹Grad. Sch. Sci., Kyoto Univ., ²Inst. Plant Sci. Res., Okayama Univ., ³Grad. Sch. Agric. Sci., Nagoya Univ.)</p>	<p>1pH09 Type III secretion system of <i>Bradyrhizobium</i> sp. SUTN9-2 prevents symbiosis with <i>Lotus</i> spp. <u>Shun Hashimoto</u>¹, Kohki Goto², Pongdet Pyromyou³, Pongpan Songwattana³, Teerana Greetatorn³, Masahiro Fukuda², Cui Ying¹, Panlada Tittabutr³, Nantakorn Boonkerd³, Neung Teaumroong³, Toshiki Uchiumi², Shusei Sato¹ (¹Grad. Sch. of Life Sci., Univ. Tohoku, ²Grad. Sch. of Sci. and Eng., Univ. Kagoshima, ³Suranaree Univ. of Technol.)</p>		<p>Symposium S04 Artificial designs of plant-soil-microbe relationships stop global warming (14:00–17:00)</p>	<p>1pY09 Tomato Mosaic Virus Movement Protein Enhances Transient Expression of Recombinant Protein in the Stem of Tomato, <i>Solanum lycopersicum</i> <u>Misaki Kobayashi</u>, Martina Bianca Fuhrmann-Aoyagi, Akira Uto, Kenji Miura (Graduate School of Life and Earth Sciences, University of Tsukuba)</p>	<p>Symposium S05 Circadian and Seasonal Mechanisms in Plant Development and Physiology (14:00–17:00)</p>	16:00
<p>1pF10 E Transgenerational salt plasticity improves the salinity-tolerance capacity of salt-sensitive-offspring in rice (<i>Oryza sativa</i> L.) <u>Murat Aycan</u>¹, Lutfun Nahar², Marouane Baslam¹, Toshiaki Mitsui¹ (¹Laboratory of Biochemistry, Faculty of Agriculture, Niigata University, Niigata, Japan., ²Department of Life and Food Sciences, Graduate School of Science and Technology, Niigata University, Niigata, Japan.)</p>	<p>1pG10 E <i>TAWAWAI</i> regulates meristem phase transition through transcription repression of <i>FZP</i> in rice <u>Haowen Wang</u>¹, Hiroki Tokunaga^{1,2}, Andree Sunanjaya Kusnandar¹, Masashi Shindo¹, Yiling Miao¹, Junko Kyozuka¹ (¹Grad. Sch. Life Sci., Tohoku Univ., ²CSRS, RIKEN)</p>	<p>1pH10 Regulation of host cell response by Rhizobial type III effector during the symbiotic nodulation Satoshi Takahashi, Oura Miyauchi, Masato Araragi, <u>Yasuyuki Kawaharada</u> (Facul. of Agri., Iwate Uni.)</p>			<p>1pY10 E Application of in planta transformation of Kalanchoe species <u>Yuhan Guo</u>¹, Masaaki K. Watahiki^{1,2} (¹Grad. Sch., Life. Sci., Univ. Hokkaido, ²Div. BioSci., Fac. Sci., Univ. Hokkaido)</p>		16:15
<p>1pF11 Complete loss of RelA-SpoT homologs triggers overaccumulation of salicylic acid in plant cells <u>Takanari Nemoto</u>¹, Masataka Inazu¹, Sae Suzuki¹, Sumire Ono¹, Yuri Kanno², Mitsunori Seo², Akira Oikawa³, Shinji Masuda¹ (¹Dep. Life Sci. Tech. Tokyo Tech, ²RIKEN, CSRS, ³Grad. Sch. Agr., Kyoto Univ.)</p>	<p>1pG11 The function of JINGASA transcription factor in stem cell zone in <i>Marchantia polymorpha</i> <u>Go Takahashi</u>, Tomohiro Kiyosue, Yuki Hirakawa (Grad. Sch. Sci., Gakushuin Uni.)</p>				<p>1pY11 E Transient expression using the Tsukuba System in soybean <u>Martina Bianca Fuhrmann-Aoyagi</u>¹, Misaki Kobayashi¹, Kenji Miura^{1,2} (¹Graduate School of Life and Earth Sciences, University of Tsukuba, ²Tsukuba-Plant Innovation Research Center, University of Tsukuba)</p>		16:30
<p>1pF12 Identification of chemical compound enhancing tolerance for environmental stresses in <i>Humulus lupulus</i> <u>Takeshi Hirakawa</u>, Seia Tanno (Kirin Central Research Institute, Kirin Holdings Company, Ltd.)</p>	<p>1pG12 Roles and downstream gene networks of Rboh-mediated ROS production in cell division pattern and cell cycle progression in <i>Marchantia polymorpha</i> <u>Yuto Yamashita</u>¹, Yuki Hagiwara¹, Kenji Hashimoto¹, Hidemasa Suzuki², Ryuichi Nishihama¹, Kazuyuki Kuchitsu¹ (¹Dept. Appl. Biol. Sci., Tokyo Univ. of Science, ²Grad. Sch. of Life Sci., Tohoku Univ.)</p>				16:45		

● Day 2, Thu., March 16, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis	Biomembrane/Ion and solute transport	Organelles/Cytoskeleton	Specialized (secondary) metabolism	Reproduction
09:00	<p>2aA01 Functional analysis of an essential gene in cyanobacteria that is conserved among oxygen-evolving photosynthetic organisms Yoshiki Shirotori¹, Kimie Atsuzawa², Egi Tritya Apdila³, Yasuko Kaneko², Koichiro Awai³, Shigeki Ehira¹ (¹Graduate school of Science, Tokyo Metropolitan University, ²Graduate School of Science and Engineering, Saitama University, ³Graduate School of Science and Technology, Shizuoka University)</p>	<p>2aB01 Analysis of the low-Mg rice mutant and identification of the causal gene, <i>OsRZF1</i> Natsuko I. Kobayashi¹, Hiroki Takagi², Xiaoyu Yang¹, Ayako Nishizawa-Yokoi³, Tenta Segawa², Tatsuaki Hoshina¹, Takayuki Ohnishi⁴, Hisashi Suzuki⁵, Ren Iwata⁶, Seichi Toki^{3,7,8}, Tomoko M. Nakanishi¹, Keitaro Tano¹ (¹Grad. Sch. Agric. Life Sci., Univ. Tokyo, ²Ishikawa Pref. Univ., ³NARO, ⁴Utsunomiya Univ., ⁵QST, ⁶CYRIC, Tohoku Univ., ⁷Ryukoku Univ., ⁸Yokohama City Univ.)</p>	<p>2aC01 Ⓢ A novel introgression of rice mitochondrial genome into wheat genome through IVF system Tety Maryenti¹, Shizuka Koshimizu^{3,4}, Kentaro Yano⁵, Takayoshi Ishii², Takashi Okamoto¹ (¹Grad. Sch. Sci., Tokyo Met. Univ., ²Arid Land Res. Cent., Tottori Univ., ³Sch. Agr., Meiji Univ., ⁴Dept. Informatics, NIG)</p>	<p>2aD01 Thin layer chromatography of pigments extracted from nuts of <i>Ginkgo biloba</i> 'Kinbei' Yoshie Uchida¹, Kazuma Kagamiyama¹, Kazuhito Inoue^{2,3}, Koichi Tsutsumi¹, Hidenobu Uchida^{1,2} (¹Dept. Food Business, Nagoya Bunri Univ., ²Res. Inst. Integ. Sci., Kanagawa Univ., ³Dep. Biol. Sci., Kanagawa Univ.)</p>	<p>2aE01 Ⓢ The plant-specific <i>Arabidopsis</i> VPS13a mediates polarized vesicle trafficking during pollen germination Surachat Tangpranomkorn¹, Motoko Igarashi², Fumiko Ishizuma³, Yoshinobu Kato^{1,4}, Takamasa Suzuki⁵, Sota Fujii^{1,6}, Seiji Takayama¹ (¹Graduate School of Agricultural and Life Sciences, University of Tokyo, Tokyo, ²Graduate School of Biological Sciences, Nara Institute of Science and Technology, Nara, ³Department of Human Life Science and Design, Faculty of Contemporary Human Life Science, Tokyo Kasei Gakuin University, Tokyo, ⁴JST, PRESTO, ⁵Graduate School of Bioscience and Biotechnology, Chubu University, Aichi, ⁶Suntory Rising Stars Encouragement Program in Life Sciences)</p>
09:15	<p>2aA02 Iron and Light-regulated Phycobilisome Production in the Cyanobacterium <i>Leptolyngbya</i> sp. PCC 6406 Mutsumi Kubushiro, Takuto Otsu, Toshihiko Eki, Yuu Hirose (App. Chem. and Life Sci., Toyohashi Univ. of Tech.)</p>	<p>2aB02 Identification of a long-distance signaling protein for regulating Si uptake in rice Naoki Yamaji, Namiki Mitani-Ueno, Noriyuki Konishi, Jian Feng Ma (IPSR, Okayama Univ.)</p>	<p>2aC02 Role of mitochondrial RNA editing in heavy metal tolerance of <i>Arabidopsis thaliana</i> Fumiaki Asahi, Koki Misawa, Riho Sawai, Izumi Yotsui, Teraaki Taji, Yoichi Sakata (Dept. of Biosci., Tokyo Univ. of Agri.)</p>	<p>2aD02 Ⓢ Changes in free volatile compounds of different tomato cultivars fruits which grow in different years Yingtao Li¹, Yusuke Kamiyoshihara², Yusuke Aono¹, Denise Tieman³, Harry Klee³, Miyako Kusano^{4,5,6} (¹Degree Programs in Life and Earth Sciences, University of Tsukuba, ²College of Bioresource Sciences, Nihon University, ³Department of Horticultural Sciences, University of Florida, ⁴Faculty of life and environment science, University of Tsukuba, ⁵Tsukuba Plant Innovation Research Center, University of Tsukuba, ⁶RIKEN Center for Sustainable Resource Science)</p>	<p>2aE02 A stylar cysteine-rich peptide confers a multi-phase reproductive barrier in <i>Arabidopsis thaliana</i> Hiroki Miura¹, Yuka Kimura¹, Yuko Wada², Seiji Takayama¹, Sota Fujii^{1,3} (¹Grad. Sch. Agric. Life Sci. Univ. Tokyo, ²Grad. Sch. Bio Sci. Nara Institute of Science and Technology, ³Suntory Rising Stars Encouragement Program in Life Sciences)</p>
09:30	<p>2aA03 Analysis of structural changes in cyanobacterial phycobilisomes during chromatic acclimation Takuto Otsu¹, Haruka Kawabata³, Mutsumi Kubushiro⁴, Chihong Song², Toshihiko Eki¹, Kazuyoshi Murata², Yuu Hirose¹ (¹Toyohashi Univ. of Tech., ²Exploratory Research Center on Life and Living Systems (ExCELLS), ³The Graduate University for Advanced Studies, SOKENDAI, ⁴Toyohashi Univ. of Tech.)</p>	<p>2aB03 Ionomics of Arabidopsis Guttation Droplets by ICP-MS Hiroki Yagi¹, Yoshiki Yoshida², Iori Mihara², Tsuneaki Takami³, Wataru Sakamoto³, Tomoo Shimada⁴, Ikuko Hara-Nishimura², Haruko Ueda^{1,2} (¹Grad. Sch. Nat. Sci., Konan Univ., ²Fac. Sci. Engin., Konan Univ., ³Inst. Plant Sci. Res., Okayama Univ., ⁴Grad. Sch. Sci., Kyoto Univ.)</p>	<p>2aC03 Tissue-specific expression of a dominant-negative <i>ACTIN8</i> suppresses organ straightening in Arabidopsis Yuzuki Miyake¹, Hiroki Yagi^{1,2}, Koichi Toyokura³, Tomoo Shimada⁴, Ikuko Hara-Nishimura², Haruko Ueda^{1,2,5} (¹Grad. Sch. Nat. Sci., Konan Univ., ²Fac. Sci. Engin., Konan Univ., ³GRA&GREEN, ⁴Grad. Sch. Sci., Kyoto Univ., ⁵Institute for Integrative Neurobiology, Konan University)</p>	<p>2aD03 Pathway-scale genome editing provides a detailed understanding of carotenoid biosynthesis in <i>Euglena gracilis</i> Shun Tamaki¹, Toshihisa Nomura^{1,2}, Marumi Ishikawa¹, Koji Yamada^{1,3}, Kengo Suzuki^{1,3}, Keiichi Mochida^{1,2,4,5} (¹RIKEN BZP, ²RIKEN CSRS, ³euglena Co., Ltd., ⁴Yokohama City Univ., ⁵Nagasaki Univ.)</p>	<p>2aE03 Exploring the regulatory mechanisms of pollen receptor signaling mediated by activator RopGEFs for pollen tube function in <i>Arabidopsis thaliana</i> Nozomi Naiki¹, Tetsuya Higashiyama², Hidenori Takeuchi³ (¹Grad. Sch. Sci., Nagoya Univ., ²Grad. Sch. Sci., Univ. Co., Ltd., ³Yokohama City Univ.)</p>
09:45	<p>2aA04 Control of intracellular pH through light-dependent H⁺ extrusion/uptake across the cytoplasmic membranes of the cyanobacterium <i>Synechocystis</i> sp. PCC6803 Akane Echigo¹, Haruya Inago¹, Kumiko Kondo², Toru Hisabori^{1,2}, Shinji Masuda¹ (¹Grad. Sch. Sci and Tech., Tokyo Tech, ²Lab. Chem. Life Sci., Tokyo Tech)</p>	<p>2aB04 Guttation Droplets from Arabidopsis Hydathodes Contain Secretory Proteins Yoshiki Yoshida¹, Iori Mihara¹, Emi Mishihiro-Sato², Shinya Sato², Keiko Kano², Tomoo Shimada³, Ikuko Hara-Nishimura⁴, Haruko Ueda^{1,4}, Hiroki Yagi⁴ (¹Fac. Sci. Engin., Konan Univ., ²WPI-ITbM, Nagoya Univ., ³Grad. Sch. Sci., Kyoto Univ., ⁴Grad. Sch. Nat. Sci., Konan Univ.)</p>	<p>2aC04 Expression analysis of <i>MYOSIN XI</i> during inflorescence stem elongation in Arabidopsis Satoko Okamura¹, Anju Hayashi¹, Hiroki Yagi², Ikuko Hara-Nishimura², Haruko Ueda^{1,2} (¹Fac. Sci. Engin., Konan Univ., ²Grad. Sch. Nat. Sci., Konan Univ.)</p>	<p>2aD04 A similar regulation mechanism of the regio-specificity among independently evolved plant aromatic prenyltransferases Junwen Han¹, Ryosuke Munakata¹, Hironobu Takahashi², Takao Koeduka³, Alain Hehn⁴, Kazufumi Yazaki¹ (¹IRISH · Kyoto Univ., ²Tokushima Bunri Univ., ³Yamaguchi Univ., ⁴Univ of Lorraine/INRAE)</p>	<p>2aE04 Transcriptomic and functional analysis of genes expressed in female gametophyte Masahiro Kanaoka (Faculty of Bioresource Sciences, Prefectural University of Hiroshima)</p>
10:00	<p>2aA05 Dual Redox Regulation of the DNA-Binding Activity of the Response Regulator RpaB in the Cyanobacterium <i>Synechocystis</i> sp. PCC 6803 Kazuki Iwata¹, Naoki Kato¹, Taro Kadawaki¹, Kintake Sonoike², Yukako Hihara¹ (¹Grad. Sch. Sci. Eng., Saitama Univ., ²Fac. Edu. Int. Arts. Sci., Waseda Univ.)</p>	<p>2aB05 Ⓢ SEN1 is responsible for molybdate transport into nodule symbiosomes for nitrogen fixation in <i>Lotus japonicus</i> Qingnan Chu¹, Tsuneeo Hakoyama², Makoto Hayashi², Kiminori Toyooka², Mayuko Sato², Takehiro Kamiya¹, Toru Fujiwara¹ (¹Grad. Sch. Agric. Life Sci. Univ. Tokyo, ²RIKEN CSRC)</p>	<p>2aC05 <i>Arabidopsis thaliana</i> Subclass I Actin Depolymerizing Factors Regulate Nuclear Structure and Gene Expression Tomoko Matsumoto¹, Takumi Higaki², Hirotomo Takatsuka³, Natsumaro Kutsuna⁴, Yoshiyuki Ogata⁵, Seichiro Hasezawa⁶, Masaaki Umeda⁷, Noriko Inada⁸ (¹Osaka Pref. Univ., Grad. Schl. Life and Environ. Sci., ²Kumamoto Univ. Grad. Schl. of Sci. and Tech., ³Kanazawa Univ. Schl. of Biol. Sci. and Tech., ⁴LPIXEL, ⁵Osaka Metropolitan Univ., Schl. of Agri., ⁶Hosei Univ., Grad. Schl. of Sci. and Eng., ⁷NAIST, Grad. Schl. of Sci. and Tech.)</p>	<p>2aD05 Characterization of a UbiA prenyltransferase gene cluster involved in coumarin metabolism in citrus Shuhei Matsushita¹, Ryosuke Munakata^{1,2}, Tetsuya Matsukawa^{3,4}, Alain Hehn⁵, Kazufumi Yazaki¹ (¹IRISH, Kyoto Univ., ²JST-PRESTO, ³The Experimental Farm, Kindai Univ., ⁴BOST, Kindai Univ., ⁵Univ. Lorraine-INRAE)</p>	<p>2aE05 Analysis of the endoplasmic membrane enclosing the sperm cells in pollen Naoya Sugi¹, Rie Izumi¹, Daichi Susaki¹, Kazuo Ebine², Tetsu Kinoshita¹, Daisuke Maruyama¹ (¹Yokohama City University Kihara Institute for Biological Research, ²National Institute for Basic Biology)</p>


Room F	Room G	Room H	Room I	Room X	Room Y	Room Z	Time
Environmental response B/ Environmental stresses	Development/Morphogenesis	Plant-organism interaction A	New technology				
<p>2aF01 Functions of miRNAs upon dormancy induction by short-day in poplar root <u>Shinya Hirooka</u>, Kimiyo Ono, Moritaro Matsuzawa, Jun Furukawa, Michiyuki Ono, Shinobu Satoh (Grad. Life Env. Sci., Univ. Tsukuba)</p> <p>2aF02 Development of a microfluidic device to detect miRNA for diagnosis of nutritional stress in plants <u>Yaichi Kawakatsu</u>¹, Michitaka Notaguchi^{1,2} (¹Bioscience and Biotechnology Center, Nagoya University, ²Graduate School of Bioagricultural Sciences, Nagoya University)</p> <p>2aF03 Identification of <i>NRT2</i>-like Genes and MADS-box Transcription Factor Genes Induced by High pH Condition in the Root Tip of Barley <u>Akari Miyauchi</u>, Kyoko Higuchi, Akihiro Saito (Grad. Sch. Dept. Agric. Chem., TUA)</p> <p>2aF04 A Unit Of Two <i>Cis</i>-elements Regulating Light/Cold/UV-B Stress Responses In Arabidopsis <u>Kana Mitai</u>¹, Samson Ezech Okechukwu², Natsuki Hayami², Wasei Kodama¹, Hiziri Iuchi³, Yoshiharu Y. Yamamoto^{1,2,4,5} (¹Grad. Sch. Nat. Sci. Tech., Univ. Gifu, ²UGSAS., Univ. Gifu, ³BRC., Riken, ⁴Fac. Appl. Biol. Sci., Univ. Gifu, ⁵CSRS., Riken)</p> <p>2aF05 Growth conditions for the dwarf phenotype of <i>picc</i> and <i>picl</i>, temperature-insensitive mutants <u>Takato Matsumoto</u>¹, Yuu Kanda¹, Tsuyoshi Furumoto^{1,2} (¹Grad. Sch. Agr. Ryukoku. Univ., ²Facu. Agr Ryukoku. Univ)</p>	<p>2aG01 Comparative analysis of sexual differentiation mechanism between monoicous and dioicous liverworts <u>Yukiko Yasui</u>¹, Tomoha Tanaka¹, Chikako Inoue¹, Masaki Shimamura², Takayuki Kohchi¹ (¹Grad. Sch. Biostudies, Kyoto Univ., ²Grad. Sch. Integ. Sci. Life, Hiroshima Univ.)</p> <p>2aG02 MpBZR3 regulates gametangium development in <i>Marchantia polymorpha</i> <u>Tomoyuki Furuya</u>^{1,2}, Natsumi Saegusa³, Shohei Yamaoka³, Chiaki Yamamoto¹, Shunji Shimadzu^{2,4}, Naoki Minamoto⁵, Ruyuchi Nishihama^{3,6}, Kimitsune Ishizaki², Takashi Ueda⁵, Hidehiro Fukaki², Takayuki Kohchi³, Masahiro Kasahara¹, Hiroo Fukuda^{4,7}, Takashi Araki³, Yuki Kondo² (¹Col. Sch. Sci., Ritsumeikan Univ., ²Grad. Sch. Sci., Kobe Univ., ³Grad. Sch. Biostudies, Kyoto Univ., ⁴Grad. Sch. Sci., Univ. Tokyo, ⁵Div. Cellular Dynamics, NIBB, ⁶Fac. Sci. Tech., Tokyo Univ. Sci., ⁷Fac. Bioenv. Sci., KUAS)</p> <p>2aG03 Role of miR529c-<i>SPL2</i> module in reproductive transition in <i>Marchantia polymorpha</i> <u>Sae Anada</u>, Yuki Tomita, Keisuke Inoue, Shohei Yamaoka, Takashi Araki (Grad. Sch. Bio., Univ. Kyoto)</p> <p>2aG04 Role of ROP signaling in the growth and organogenesis of <i>Marchantia polymorpha</i> <u>Yuuki Sakai</u>¹, Hiroki Yonetsuka¹, Aki Ueno¹, Hirotaka Kato^{1,2}, Tetsuro Mimura^{1,3,4}, Yuki Kondo¹, Hidehiro Fukaki¹, Kimitsune Ishizaki¹ (¹Grad. Sch. Sci., Kobe Univ., ²Grad. Sch. Sci. Eng., Ehime Univ., ³Grad. Sch. Agri. Life Sci., Tokyo Univ., ⁴Biosci. Biotech., National Cheng Kung Univ.)</p> <p>2aG05 Roles of TCP genes in the regulation of cell expansion during leaf development <u>Tomotsugu Kovama</u>¹, Nobutaka Mitsuda², Motoaki Seki³, Koji Takahashi^{4,5}, Toshinori Kinoshita^{4,5}, Ayumu Bessho⁶, Tadashi Kunieda^{6,7}, Taku Demura^{6,7}, Masaru Ohme-Takagi⁸ (¹Suntory Foundation for Life Sciences, ²Bioproduction Research Institute, AIST, ³CSRS, RIKEN, ⁴Grad. Sch. Science, Nagoya Univ., ⁵ITbM, Nagoya Univ., ⁶Div. Biol. Sci, NAIST, ⁷Center for Digital Green-innovation, NAIST, ⁸Grad. Sch. Sci. Eng., Saitama Univ.)</p>	<p>2aH01 Fungal hacking of the plant sex-determination pathway via suppression of <i>AGL24</i> in <i>Silene latifolia</i> <u>Naoko Fujita</u>, Takashi Akagi (Grad. Sch. Environ. Life Sci., Okayama Univ.)</p> <p>2aH02 Effects of cold temperature on virus-induced growth inhibition and transcriptome response of <i>Arabidopsis halleri</i> <u>Mie N. Honjo</u>¹, Naoko Emura^{1,2}, Mari Kamitani^{1,3}, Hiroshi Kudoh¹ (¹CER, Kyoto Univ., ²Fac. Agri., Kagoshima Univ., ³CiRA_F, Kyoto Univ.)</p> <p>2aH03 Effects of Turnip mosaic virus on <i>Arabidopsis halleri</i>-aphid interaction and the exploration of its causal genes <u>Miyabi Otsubo</u>, Hiroshi Kudoh, Mie N. Honjo (CER, Kyoto Univ.)</p> <p>2aH04 E Response and Resistance of Rice towards rice pest Golden Apple Snail <u>Mafrikhul Muttakin</u>^{1,2}, Songkui Cui¹, Yoichi Yusa³, Satoko Yoshida¹ (¹Plant Symbiosis Laboratory, Graduate School of Science and Technology, Nara Institute of Science and Technology, ²Department of Biology, Faculty of Mathematics and Natural Sciences, IPB University, ³Laboratory of Aquatic Ecology, Nara Women's University)</p> <p>2aH05 Natural variation on a C2H2 zinc finger protein makes glabrous leaf/stem phenotypes in NBRP wild tomato (<i>Solanum pimpinellifolium</i>) collection <u>Koichi Sugimoto</u>, Rika Nakajima, Tohru Arizumi, Hiroshi Ezura (Univ. Tsukuba, T-PIRC)</p>	<p>2aI01 Establishment of live-cell imaging technique to track H3K4me3 in <i>Arabidopsis thaliana</i> <u>Megumi Matsuoka</u>¹, Takuya Sakamoto², Mio Shibuta K.³, Yuko Sato⁴, Hiroshi Kimura⁴, Sachihito Matsunaga¹ (¹Dept. of Integr. Biosci., Grad. Sch. of Front. Sci., Univ. of Tokyo, ²Dept. of Appl. Biol. Sci., Fac. of Sci. and Tech., Tokyo Univ. of Sci., ³Fac. of Sci., Yamagata Univ., ⁴Inst. of Innov. Res., Tokyo Inst. of Tech.)</p> <p>2aI02 Evaluation of topology of membrane proteins in living plant cells by bioimaging <u>Kohji Nishimura</u>, Suzuna Namba, Mai Miyatake, Shohei Yoshida (Fac. Life Env. Sci., Shimane Univ)</p> <p>2aI03 Organelle Glue: A Molecular Tool to Artificially Control Chloroplast-Chloroplast Interactions <u>Shintaro Ichikawa</u>^{1,2}, Shota Kato¹, Yuta Fujii¹, Kazuya Ishikawa^{1,3}, Keiji Numata^{4,5}, Yutaka Kodama^{1,2,5} (¹Ctr. Biosci. Res. Educ., Utsunomiya Univ., ²Grad. Sch. Reg. Dev. Creat., Utsunomiya Univ., ³Grad. Sch. Med. Dent. Pharm., Okayama Univ., ⁴Grad. Sch. of Eng., Kyoto Univ., ⁵CSRS, RIKEN)</p> <p>2aI04 Artificial manipulation of plant metabolome by using the organellar glue technique <u>Kazuya Ishikawa</u>^{1,2}, Makoto Kobayashi³, Miyako Kusano^{3,4,5}, Keiji Numata^{3,6}, Yutaka Kodama^{1,3} (¹Ctr. Biosci. Res. Educ., Utsunomiya Univ., ²Grad. Sch. Med. Dent. Pharm., Okayama Univ., ³RIKEN CSRS, ⁴Grad. Sch. of Life & Env. Sci., Univ. Tsukuba, ⁵T-PIRC, Univ. Tsukuba, ⁶Dept. Eng., Kyoto Univ.)</p> <p>2aI05 Remote monitoring of physiological responses using tiny sensors in plants <u>Kaori Kohzuma</u>^{1,2}, Ko-ichiro Miyamoto³ (¹ININS, Astrobiology Center, ²The University of Tokyo, Dept. Bio. Sci., ³Tohoku University, Dept. Electronic Eng.)</p>	Symposium S06	The 19th Database Workshop (9:00-12:00)	Symposium S07	09:00
				A look at the world of environmental stress through the perspective of P700 oxidation (9:00-11:10)		Japan-Singapore Binational Symposium: Plant Science & Precision Agriculture (9:00-11:50)	09:15
							09:30
							09:45
							10:00

● Day 2, Thu., March 16, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis	Biomembrane/Ion and solute transport	Organelles/Cytoskeleton	Specialized (secondary) metabolism	Reproduction
10:15	<p>2aA06 Analysis of Partner-Switching Phosphatases in <i>Synechocystis</i> sp. PCC 6803 <u>Haruna Kakuta</u>¹, Riku Nakamura², Yukako Hihara¹ (¹Grad. Sch. Sci. Eng., Saitama Univ., ²Fac. Sci., Saitama Univ.)</p>	<p>2aB06 Neck Strip, a Lignin-Based Novel Structure, Acts as an Apoplastic Barrier in Cucumber Glandular Trichome Hao Ning¹, Tao Wu², Toru Fujiwara¹, <u>Takehiro Kamiya</u>¹ (¹Grad. Sch. Agr. Life Sci., Univ. Tokyo, ²Hunan Agr. Univ.)</p>	<p>2aC06 ⓑ Actin isovariant ACT2-mediated cellular auxin homeostasis regulates lateral root organogenesis <u>Aya Hanzawa</u>¹, Marika Yamauchi², Abidur Rahman^{1,2,3} (U. Grad. Sch. Agri. Sci., Iwate Univ., ²Grad. Sch. Arts and Sci., Iwate Univ., ³Dept. of Plant Biosci., Faculty of Agri., Iwate Univ.)</p>	<p>2aD06 Identification of a novel hatching factor for potato cyst nematode, solanoclepin B, and investigation of its biosynthesis <u>Ryota Akiyama</u>¹, Kosuke Shimizu¹, Itaru Sakata², Atsuhiko Kushida², Bunta Watanabe³, Keiji Tanino⁴, Yukihiko Sugimoto¹, Masaharu Mizutani¹ (¹Graduate School of Agricultural Science, Kobe University, ²Hokkaido Agricultural Research Center, NARO, ³The Jikei University School of Medicine, ⁴Department of Chemistry, Faculty of Science, Hokkaido University)</p>	<p>2aE06 A possible molecular mechanism for directional growth of pollen tubes devoid of the nuclei from the apical cytoplasm <u>Kazuki Motomura</u>^{1,2}, Naoya Sugi³, Atsushi Takeda¹, Shohei Yamaoka⁴, Daisuke Maruyama³ (¹Col. of Life Sci., Ritsumeikan Univ., ²PRESTO, JST, ³Kihara Inst. Biol. Res., Yokohama City Univ., ⁴Grad. Sch. Biostudies, Kyoto Univ.)</p>
10:30	<p>2aA07 Acyl plastoquinol is a major substance that co-migrates with triacylglycerol in cyanobacteria Natsumi Mori-Moriyama^{1,2}, Toru Yoshitomi^{1,3}, <u>Naoki Sato</u>¹ (Univ. Tokyo, ²Ryukoku Univ., ³Nat. Inst. Mat. Sci.)</p>	<p>2aB07 Leaf position and season-dependent changes in transcriptome analysis of field-grown poplar cuttings <u>Yuko Kurita</u>¹, Makoto Kashima², Kei'ichi Baba³, Kimitsune Ishizaki⁴, Natsuko I. Kobayashi¹, Keitaro Tanoi¹, Tetsuro Mimura^{1,4,5}, Atsushi J. Nagano^{6,7} (¹Grad. Sch. Agri. Life Sci. UTokyo, ²College of Science and Engineering, Aoyama Gakuin Univ., ³RISH, Kyoto Univ., ⁴Grad. Sch. Sci., Kobe Univ., ⁵College of Bioscience and Biotechnology, National Cheng Kung Univ., ⁶Faculty of Agriculture, Ryukoku Univ., ⁷IAB, Keio Univ.)</p>	<p>2aC07 Confined microtubule assembly shapes three-dimensional cell wall structures in xylem vessels <u>Takema Sasaki</u>¹, Kei Saito^{2,3}, Daisuke Inoue⁴, Yuki Sugiyama⁵, Yuta Shimamoto^{2,3}, Yoshihisa Oda¹ (¹Grad. Sch. Sci., Nagoya Univ., ²Dep. Chrom. Sci., NIG, ³Dep. Genetics, SOKENDAI, ⁴Fac. Design, Kyushu Univ., ⁵Sainsbury Lab., Cambridge Univ.)</p>	<p>2aD07 Single cell analysis for elucidation of natural rubber biosynthesis mechanism using rubber suspension cells <u>Emiko Okubo-Kurihara</u>¹, Emi Osada¹, Yuko Makita^{1,2}, Mika Kawashima¹, Hiroko Tsuchida¹, Ayato Sato³, Naoya Kadofusa³, Nanako Katou³, Mayuko Satou¹, Mayumi Wakazaki¹, Kiminori Toyooka¹, Yuki Hamamura⁴, Minami Matsui¹ (¹RIKEN · CSRS, ²Maebashi Institute of Technology, ³Nagoya University · ITbM, ⁴University of Hamburg)</p>	<p>2aE07 ⓑ Rboh-mediated ROS production plays an important role in initiation and progression of male meiosis in rice (<i>Oryza sativa</i>. L) <u>Harsha Somashekar</u>^{1,2}, Hidetaka Kaya³, Shigeru Hanamata⁴, Takamitsu Kurusu⁵, Kazuyuki Kuchitsu⁴, Ken-ichi Nonomura^{1,2} (¹Plant Cytogenetics Laboratory, National Institute of Genetics, ²School of Life Sciences, The Graduate University for Advanced studies (SOKENDAI), ³Graduate School of Agriculture, Ehime University, ⁴Department of Applied Biological Science, Tokyo University of Science, ⁵Department of Mechanical and Electrical Engineering, Suwa University of Science)</p>
10:45	<p>2aA08 Chain length of fatty acids affects photoinhibition of PSII in cyanobacteria <u>Kazuki Kurima</u>, Haruhiko Jimbo, Masakazu Saito, Hajime Wada (Grad. Sch. Arts Sci., Univ. Tokyo, Japan)</p>		<p>2aC08 Interactors of NIMA-related kinase regulating growth polarity of rhizoids Hikari Mase¹, Hirofumi Nakagami², Taku Takahashi¹, <u>Hiroyasu Motose</u>¹ (¹Grad. Sch. Nat. Sci., Okayama Univ., ²Max Planck Institute for Plant Breeding Research)</p>	<p>2aD08 Solubilization of natural rubber biosynthetic enzyme complexes from rubber particles of the Para rubber tree (<i>Hevea brasiliensis</i>) by the amphiphilic copolymer treatments <u>Nadia Nur Shazana Binti Abu Talib Khan</u>¹, Koji Kojima¹, Haruhiko Yamaguchi⁴, Tomoyo Mikami¹, Miki Suenaga-Hiromori¹, Toshiyuki Waki¹, Yukino Miyagi⁴, Satoshi Yamashita², Yuzuru Tozawa³, Toru Nakayama¹, Seiji Takahashi¹ (¹Grad. Sch. Eng., Tohoku Univ., ²Grad. Sch. Natural Sci. Tech., Kanazawa Univ., ³Grad. Sch. Sci. Eng., Saitama Univ., ⁴Sumitomo Rubber Ind., Ltd.)</p>	<p>2aE08 KNS21 regulating the formation of COPII-coated vesicles plays an important role in Arabidopsis pollen exine development <u>Saki Nabeta</u>¹, Nozomi Ueki¹, Kota Matsuoka¹, Tsuyoshi Nakagawa², Sumie Ishiguro¹ (¹Bio-Agric. Sci., Nagoya Univ., ²Dep. Mol. Func. Genomics, Shimane Univ.)</p>
11:00	<p>2aA09 Effect of the Δ7 and Δ9 unsaturated fatty acids in <i>Synechocystis</i> sp. PCC 6803 on the acclimation to low temperature <u>Asuka Kobayashi</u>^{1,2}, Michal Hubáček², Yagut Allahverdiyeva², Iwane Suzuki³ (¹Grad. Sch. Sci. and Tech. Univ. Tsukuba, ²University of Turku, Turku, Finland, ³Fac. Life Environ. Sci., Univ. Tsukuba)</p>		<p>2aC09 Correlation Analysis Between Intracellular Positioning and Morphology of Organelles Based on the 3D Reconstructed Images <u>Keiko Midorikawa</u>¹, Yutaka Kodama^{1,2}, Keiji Numata^{2,3} (¹Ctr. Biosci. Res. Educ., Utsunomiya Univ., ²CSRS, Riken, ³Grad. Sch. Eng., Kyoto Univ.)</p>	<p>2aD09 Induction of MIA metabolism in seed germination of <i>Catharanthus roseus</i> <u>Mai Uzaki</u>^{1,2}, Tetsuya Mori², Mayuko Sato², Mayumi Wakazaki², Kotaro Yamamoto³, Akio Murakami⁴, Kiminori Toyooka², Tetsuro Mimura^{4,5,6}, Masami Yokota Hirai^{1,2} (¹Grad. Sch. Agricul. Sci., Nagoya Univ., ²RIKEN CSRS, ³Sch. Sci., Yokohama City Univ., ⁴Grad. Sch. Sci., Kobe Univ., ⁵Grad. Sch. Agricul. Life Sci., UTokyo, ⁶Col. Biosci. Biotech., National Cheng Kung Univ.)</p>	<p>2aE09 Jasmonic acid-mediated networks activate autophagic machinery for petal abscission in <i>Arabidopsis</i> <u>Yuki Furuta</u>, Nobutoshi Yamaguchi, Toshiro Ito (Grad. Sch. Sci and Tech., NAIST)</p>

Room F	Room G	Room H	Room I	Room X	Room Y	Room Z	Time
Environmental response B/ Environmental stresses	Development/Morphogenesis	Plant-organism interaction A	New technology				
<p>2aF06 Analysis of transcriptional regulatory mechanisms of temperature-stress inducible genes mediated by clock-related transcription factors in Arabidopsis <u>Satoshi Kidokoro</u>^{1,2}, Izumi Konoura², Kentaro Hayashi², Fumiyouki Soma², Takamasu Suzuki³, Takuya Miyakawa^{2,4}, Masaru Tanokura², Kazuo Shinozaki⁵, Kazuko Yamaguchi-Shinozaki^{2,6} (1¹Sch. of Life Sci. and Tech., Tokyo Tech, 2²Grad. Sch. Agr. Life Sci., Univ. Tokyo, 3³Biosci. Biotech., Chubu Univ., 4⁴Grad. Sch. of Biostudies, Kyoto Univ., 5⁵Center for Sustainable Resource Science, RIKEN, 6⁶Res. Inst. Agr. Life Sci., Tokyo Univ. Agr.)</p>	<p>2aG06 E Single-cell transcriptomics unveils xylem cell development and evolution Chia-Chun Tung¹, Shang-Che Kuo², Chia-Ling Yang³, Zhong-He Yu¹, Chia-En Huang¹, Pin-Chien Liou¹, Ying-Hsuan Sun⁴, Peng Shuai⁵, Jung-Chen Su⁶, Chuan Ku^{2,3}, <u>Ying-Chung Jimmy Lin</u>^{1,2} (1¹Department of Life Science and Institute of Plant Biology, National Taiwan University, Taipei 10617, Taiwan., 2²Genome and Systems Biology Degree Program, National Taiwan University and Academia Sinica, Taipei 10617, Taiwan., 3³Institute of Plant and Microbial Biology, Academia Sinica, Taipei 11529, Taiwan., 4⁴Department of Forestry, National Chung Hsing University, Taichung 40227, Taiwan., 5⁵College of Forestry, Fujian Agriculture and Forestry University, Fuzhou 350002, China., 6⁶Department of Pharmacy, National Yang Ming Chiao Tung University, Taipei 11221, Taiwan)</p>	<p>2aH06 Isolation and analysis of <i>chitin-induced cell death (ccd) mutants of Physcomitrium patens</i> <u>Takeru Ichihashi</u>, Yuki Ambe, Teruaki Taji, Yoichi Sakata, Izumi Yotsui (Dept. Bio. Sci., Tokyo Univ. of Agriculture)</p>	<p>2aI06 Development of a Novel Detection Method Targeting an Ultrashort 25 bp Sequence Found in <i>Agrobacterium</i>-Mediated Transformed GM Plants <u>Reona Takabatake</u>¹, Mari Onishi², Yasutaka Minegishi³, Satoshi Futo², Keisuke Soga¹, Norihito Shibata⁴, Kosuke Nakamura⁴, Kazunari Kondo⁴, Junichi Mano¹, Kazumi Kitta¹ (1¹National Agriculture and Food Research Organization, 2²Fasmac Co., Ltd., 3³NIPPON GENE Co., Ltd., 4⁴National Institute of Health Sciences)</p>	Symposium S06	The 19th Database Workshop (9:00–12:00)	Symposium S07	10:15
<p>2aF07 Analysis of cold stress-specific degradation mechanisms in Arabidopsis circadian clock factors <u>Naoki Okawa</u>¹, Fuminori Takahashi^{2,3}, Junya Mizoi¹, Kazuo Shinozaki³, Kazuko Yamaguchi-Shinozaki⁴, <u>Satoshi Kidokoro</u>⁴ (1¹Grad. Sch. Agr. Life Sci., Univ. Tokyo, 2²Faculty of Advanced engineering, Tokyo Univ. of Science, 3³Center for Sustainable Resource Science, RIKEN, 4⁴Inst. Agr. Life Sci., Tokyo Univ. Agr., 5⁵Sch. of Life Sci. and Tech., Tokyo Tech)</p>	<p>2aG07 Expression pattern of FbDOF1A transcription factor during leaf development in <i>C₄ Flaveria bidentis</i> <u>Yuri Munekage</u>¹, Tomoyo Ono¹, Mei Osawa¹, Ken Okudono¹, Yukimi Taniguchi¹, Tammy Sage² (1¹Kwansai Gakuin Univ., Sch. Bio. & Env. Sci., 2²Dep. Eco. & Evo. Bio, Univ. of Toronto)</p>	<p>2aH07 Sugar stimulates defense signaling via the activation of protein kinases <u>Koji Yamada</u>¹, Akira Mine² (1¹Grad. Sch. Tech. Ind. Sco. Sci., Tokushima Univ., 2²Grad. Sch. Agri., Kyoto Univ.)</p>	<p>2aI07 Development of technology for identification of proteins interacting with a target protein in plants using a proximity biotinylation enzyme, AirID Ryosuke Hori¹, Souta Shinohara¹, <u>Akira Nozawa</u>¹, Kohei Nishino², Hidetaka Kosako², Tatsuya Sawasaki¹ (1¹PROS, Ehime Univ., 2²Fujii Memorial Inst. Med. Sci.)</p>	A look at the world of environmental stress through the perspective of P700 oxidation (9:00–11:10)		Japan-Singapore Binational Symposium: Plant Science & Precision Agriculture (9:00–11:50)	10:30
<p>2aF08 A galactolipase, Galp3, is involved in low-temperature acclimation in <i>Synechococcus elongatus</i> PCC 7942 <u>Nobuyuki Takatani</u>¹, Makoto Uenosono², Kota Taniguchi³, Yuya Senoo⁴, Kazutaka Ikeda⁴, Tatsuo Omata¹, Makiko Aichi¹ (1¹Col. of Biosci. and Biotech. Chubu Univ., 2²Grad. Sch. Bioagr. Sci., Nagoya Univ., 3³Grad. Sch. Biosci. and Biotech. Chubu Univ., 4⁴Kazusa DNA Res. Inst.)</p>	<p>2aG08 Quantitative analyses of pinnate venation in eudicot and monocot leaves <u>Miho Kitazawa</u>^{1,2}, Kazuya Horibe³ (1¹CELAS, Osaka Univ., 2²Grad. Sch. Sci., Osaka Univ., 3³Grad. Sch. Eng. Sci., Osaka Univ.)</p>	<p>2aH08 High humidity-mediated abscisic acid inactivation in Arabidopsis restricts bacterial water acquisition <u>Shigetaka Yasuda</u>¹, Taishi Hirase¹, Haruka Ishizaki¹, Ryuji Suzuki², Akihisa Shinozawa^{3,4}, Shioriko Ueda¹, Izumi Yotsui³, Masatsugu Toyota², Yusuke Saijo¹ (1¹Grad. Sch. Sci and Tech., NAIST, 2²Grad. Sch. Sci. Eng., Saitama Univ., 3³Dep. Biosci., Tokyo Univ. Agric., 4⁴NGRC, Tokyo Univ. Agric.)</p>					10:45
<p>2aF09 Role of Galp3 in <i>Synechococcus elongatus</i> PCC 7942 under low-temperature stress <u>Kota Taniguchi</u>¹, Nobuyuki Takatani², Makoto Uenosono³, Kazutaka Ikeda⁴, Yuya Senoo⁴, Tatsuo Omata², Makiko Aichi² (1¹Grad. Biosci. Biotech., Chubu Univ., 2²Col. of Biosci. and Biotech., Chubu Univ., 3³Grad. Sch. Bioagr. Sci., Nagoya Univ., 4⁴Kazusa DNA Res. Inst.)</p>	<p>2aG09 Analytical consideration on the reason why the golden angle is derived from the inhibitory field model of phyllotaxis <u>Takaaki Yonekura</u>, Munetaka Sugiyama (Grad. Sch. Sci., Univ. Tokyo)</p>	<p>2aH09 Developmentally established SAR in Arabidopsis <u>Kanoknipa Sukaouni</u>¹, Tokuji Tsuchiya² (1¹Grad. Sch. ALS., Nihon Univ., 2²Coll. Biores. Sci., Nihon Univ.)</p>					11:00

● Day 2, Thu., March 16, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis	Biomembrane/Ion and solute transport	Organelles/Cytoskeleton	Specialized (secondary) metabolism	Reproduction
11:15	<p>2aA10 Affinity purification of HA-tagged cpSRP involved in translocation of LHCP in <i>Chlamydomonas reinhardtii</i> <u>Hiroshi Kuroda</u>¹, <u>Shin-ichiro Ozawa</u>², <u>Yuichiro Takahashi</u>¹ (¹RIIS, Okayama Univ., ²IPSR, Okayama Univ.)</p>		<p>2aC10 Analyzing Induction Mechanisms And Localized Proteins of Lipid Droplets under Stress Conditions in Leaves <u>Yuya Iwai</u>¹, <u>Emi Mishiro-Sato</u>², <u>Keiko Kano</u>², <u>Yuto Omata</u>³, <u>Takashi L. Shimada</u>^{1,4,5} (¹Fac. Hort., Chiba Univ., ²ITBM, Nagoya Univ., ³Tokyo Tech., ⁴Grad. Sch. Hort., Chiba Univ., ⁵Plant Mol. Sci. Cent., Chiba Univ.)</p>		<p>2aE10 ABA increases the interploidy hybridization success <u>Hikaru Sato</u>^{1,3}, <u>Wenjia Xu</u>^{1,2}, <u>Heinrich Bente</u>^{1,4}, <u>Juan Santos-González</u>¹, <u>Claudia Köhler</u>^{1,4} (¹SLU, Uppsala BioCenter, ²INRA, AgroParisTech, ³Tokyo Univ., Dept. Integrated Sciences, ⁴MPI, Molecular Plant Physiology)</p>
11:30	<p>2aA11 Maintenance of the thylakoid membrane by FZL, a dynamin-like protein localized to the grana margin in <i>Arabidopsis thaliana</i> <u>Yu Ogawa</u>¹, <u>Megumi Iwano</u>², <u>Akihiro Kawamoto</u>³, <u>Genji Kurisu</u>³, <u>Toshiharu Shikanai</u>⁴, <u>Wataru Sakamoto</u>¹ (¹IPSR, Univ. Okayama, ²Grad. Sch. Bio., Univ. Kyoto, ³IPR, Univ. Osaka, ⁴Grad. Sch. Sci., Univ. Kyoto)</p>		<p>2aC11 Functional Analyses of the RING Domain in the Ubiquitin E3 Ligase FLYING SAUCER2 <u>Tadashi Kunjeda</u>^{1,2}, <u>Chinatsu Matsuba</u>¹, <u>Mitsuki Jifuku</u>¹, <u>Emi Mishiro-Sato</u>³, <u>George W. Haughn</u>⁴, <u>Ikuko Hara-Nishimura</u>⁵, <u>Taku Demura</u>^{1,2} (¹Div. of Biol. Sci., NIAIST, ²CDG, NIAIST, ³ITBM, Nagoya Univ., ⁴Dept. of Bot., UBC, ⁵Fac. of Sci. and Eng., Konan Univ.)</p>		<p>2aE11 Developmental profiles of zygote-somatic protoplast fused cells in rice <u>Erika Toda</u>^{1,2}, <u>Takumu Kamekawa</u>², <u>Tetsuya Higashiyama</u>¹, <u>Takashi Okamoto</u>² (¹Dept. Biol. Sci., Univ. Tokyo, ²Dept. Biol. Sci., Tokyo Metropolitan Univ.)</p>
11:45			<p>2aC12 Preparation Of Plant Intact Nuclei That Can Be Used For Nuclear Transporter Assay <u>Toshisuke Iwasaki</u>, <u>Ryoya Matsuzawa</u>, <u>Nobuyasu Enomoto</u>, <u>Kaho Maki</u>, <u>Miku Ota</u> (Fac. Sci., Niigata Univ.)</p>		<p>2aE12  Autonomous development and regeneration of rice egg cells in a fertilization-independent manner <u>Kasidit Rattanawong</u>¹, <u>Shizuka Koshimizu</u>^{2,3}, <u>Kaori Totsuka</u>¹, <u>Kentaro Yano</u>², <u>Takashi Okamoto</u>¹ (¹Tokyo Metropolitan University, ²Meiji University, ³National Institute of Genetics)</p>

Room F	Room G	Room H	Room I	Room X	Room Y	Room Z	Time
Environmental response B/ Environmental stresses	Development/Morphogenesis	Plant-organism interaction A	New technology				
<p>2aF10 Impact of Reactive Oxygen Species and Iron on Chilling Stress in Cucumber <u>Ko Takeuchi</u>¹, Yufen Che¹, Takeshi Nakano¹, Kentaro Ifuku² (¹Grad. Sch. Biostudies, Univ. Kyoto, ²Grad. Sch. Agri., Univ. Kyoto)</p>	<p>2aG10 Multi-platform widely-targeted metabolomics identified candidate metabolites with a potential role in cell number and size coordination during leaf morphogenesis <u>Hiromitsu Tabeta</u>^{1,2,3}, Hiroyuki Koga⁴, Munee Sato², Shizuka Gunji¹, Hirokazu Tsukaya⁴, Masami Yokota Hirai^{2,5}, Ali Ferjani¹ (¹Tokyo Gakugei Univ., ²RIKEN CSRS, ³Grad. Sch. Art & Sci., Univ. of Tokyo, ⁴Grad. Sch. Sci., Univ. of Tokyo, ⁵Grad. Sch. Bioagric. Sci., Nagoya Univ.)</p>	<p>2aH10 E Proteomic screening and functional analysis of plant immune ROS sensors: NbGLR positively regulates plant immune responses <u>Yuta Hino</u>, Keita Okamoto, Taichi Inada, Miki Yoshioka, Tatsuhiko Kondo, Hitoshi Mori, Hirofumi Yoshioka (Grad. Sch. Bioagricultural Sci., Nagoya Univ.)</p>		Symposium S06 A look at the world of environmental stress through the perspective of P700 oxidation (9:00–11:10)	The 19th Database Workshop (9:00–12:00)	Symposium S07 Japan-Singapore Binational Symposium: Plant Science & Precision Agriculture (9:00–11:50)	11:15
<p>2aF11 Regulation of low temperature response by naphthoquinone derivatives in <i>Arabidopsis</i> <u>Kohei Kitawaki</u>, Ryota Mihara, Yasuko Ito-Inaba, Takehito Inaba (Fac. Agr., Univ. Miyazaki)</p>	<p>2aG11 Phenotypic analysis of an <i>Arabidopsis</i> mutant defective in jasmonate-induced trichome formation <u>Miku Tashiro</u>¹, Yuki Yoshida², Shinichiro Sawa³ (¹Dept. Sci., Kumamoto Univ., ²FAST, Kumamoto Univ., ³IRCAEB, Kumamoto Univ.)</p>	<p>2aH11 E Extracellular molecules produced by microbiota commensals interfering with the root growth and immunity in <i>Arabidopsis thaliana</i> Tomohisa Shimasaki^{1,2}, Ulla Neumann¹, <u>Ryohei Thomas Nakano</u>¹ (¹MPIPZ, ²RIKEN BRC)</p>					11:30
<p>2aF12 Comparisons of freezing tolerance through cold acclimation and de-acclimation processes between the altitudinal ecotypes of the evergreen herb, <i>Arabidopsis halleri</i> <u>Genki Yumoto</u>, Mie N. Honjo, Hiroshi Kudoh (Kyoto Univ., CER)</p>	<p>2aG12 An epigenetic regulator affects awn formation in barley <u>Koki Nakamura</u>¹, Yuichi Kikuchi¹, Mizuhiko Shiraga², Toshihisa Kotake³, Shin Taketa^{1,2}, Yoko Ikeda^{1,2} (¹Grad. sch. Environmental and Life Sci., Okayama Univ., ²IPSR, Okayama Univ., ³Grad. Sch. Sci. and Eng., Saitama Univ.)</p>	<p>2aH12 E Activation mechanism of plant mixed lineage kinase domain-like (MLKL) proteins conferring TIR-NLR-mediated immunity <u>Keiichi Hasegawa</u>^{1,2}, Qiaochu Shen^{1,2}, Menghang Huang³, Kay Hoffman¹, Yuhang Chen⁴, Jijie Chai^{1,2,3,5}, Takaki Maekawa^{1,5} (¹University of Cologne, ²Max planck institute for plant breeding research, ³Tsinghua University, ⁴State Key Laboratory of Molecular Developmental Biology, ⁵The Cluster of Excellence on Plant Sciences (CEPLAS))</p>					11:45

● Day 3, Fri., March 17, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Primary metabolism	Organelles/Cytoskeleton	Environmental response A/ Physiological responses
09:00	<p>3aA01 Photorespiration mutants (<i>gln2/glu1</i>) recruit RISE (H⁺-independent) mechanism for the regulation of photosynthetic electron transport in Arabidopsis <u>Shinya Wada</u>¹, Takanori Maruta², Yuji Suzuki³, Amane Makino⁴, Chikahiro Miyake¹ (1^{Grad. Sch. Agri. Sci., Kobe Univ.}, 2^{Fac. Life Environ. Sci., Shimane Univ.}, 3^{Fac. Agri. Iwate Univ.}, 4^{Grad. Sch. Agri. Tohoku Univ.})</p>	<p>3aB01 Metabolome analysis revealed each <i>brittle culm</i> mutant-specific metabolism in rice <u>Atsuko Miyagi</u>^{1,2}, Kazuhisa Mori², Toshiki Ishikawa², Satoshi Ohkubo³, Shunsuke Adachi⁴, Taiichiro Ookawa⁴, Masatoshi Yamaguchi², Toshihisa Kotake², Maki Kawai-Yamada² (1^{Fac. Agr., Yamagata Univ.}, 2^{Grad. Sch. Sci. Eng., Saitama Univ.}, 3^{Grad. Sch. Life Sci., Tohoku Univ.}, 4^{Grad. Sch. Agr., Tokyo Univ. Agr. Tech.})</p>	<p>3aC01 Statistical analysis of organelle movement using state-space models <u>Haruki Nishio</u>^{1,2}, Satoyuki Hirano^{3,4}, Yutaka Kodama^{3,4} (1^{DS center, Shiga Univ.}, 2^{CER, Kyoto Univ.}, 3^{Ctr. Biosci. Res. Educ., Utsunomiya Univ.}, 4^{Grad. Sch. Reg. Dev. Creat., Utsunomiya Univ.})</p>	<p>3aD01 Genetic framework for growth angle control of lateral branches by <i>TILLER ANGLE CONTROL1</i> <u>Nozomi Kawamoto</u>, Takeshi Nishimura, Miyo, T. Morita (National Institute for Basic Biology)</p>
09:15	<p>3aA02 Analysis of the <i>x</i>- and <i>y</i>-type thioredoxin-deficient mutants in <i>Arabidopsis thaliana</i> <u>Yuki Okegawa</u>¹, Nozomi Sato², Ken Motohashi², Wataru Sakamoto² (1^{Inst. Plant Sci. Univ. Okayama}, 2^{Fac. Life. Sci., Univ. Kyoto Sangyo})</p>	<p>3aB02 Maintaining downstream glycolytic intermediates ensures rapid start of photosynthesis in cyanobacteria <u>Kenya Tanaka</u>^{1,2,3}, Mami Matsuda³, Tomokazu Shirai^{3,4}, Akihiko Kondo^{1,3,4}, Tomohisa Hasunuma^{1,3,4} (1^{EGBRC, Kobe Univ.}, 2^{Grad. Sch. Eng. Sci. RCSEC, Osaka Univ.}, 3^{Grad. Sch. Sci. Technol. Innov., Kobe Univ.}, 4^{CSRS, Riken})</p>	<p>3aC02 Purification and structural analysis of TIC, the protein translocator at the inner envelope membrane of chloroplast <u>Hayate Machino</u>, Mika Hirose, Takayuki Kato, Masato Nakai (Institute for Protein Research, Grad. Sch. Sci., Univ. Osaka)</p>	<p>3aD02 Elucidation of BRX domain-dependent and independent signaling in RLDs <u>Takeshi Nishimura</u>¹, Masahiko Furutani², Miyo, T. Morita¹ (1^{NIBB}, 2^{Kumamoto Univ.})</p>
09:30	<p>3aA03 Involvement of Chloroplast-localized Trx-like proteins in the Regulation of Non-Photochemical Quenching in <i>Arabidopsis thaliana</i> <u>Yuka Fukushi</u>^{1,2}, Yuichi Yokochi^{1,2}, Ken-ichi Wakabayashi^{1,2}, Keisuke Yoshida^{1,2}, Toru Hisabori^{1,2} (1^{CLS, Tokyo Tech.}, 2^{School of Life Science and Technology, Tokyo Tech.})</p>	<p>3aB03 Nitrate transport activity of HPP family proteins of cyanobacteria and Arabidopsis <u>Shin-ichi Maeda</u>, Tatsuo Omata (Grad. Sch. Bioagri., Univ. Nagoya)</p>	<p>3aC03 Possible involvement of a plant immune receptor in chloroplast stress signaling <u>Kenji Nishimura</u> (Sch. Biol. Env. Sci., Kwansei Gakuin Univ)</p>	<p>3aD03 Quantitative analysis of polar tip growth revealed phototropism of rhizoids in <i>Marchantia polymorpha</i> <u>Hana Kojima</u>, Kenji Hashimoto, Kazuyuki Kuchitsu (Appl. Biol. Sci., Tokyo Univ. of Science)</p>
09:45	<p>3aA04 Impact of Na⁺/H⁺ antiporters on thylakoid reactions in cyanobacteria <u>Masaru Tsujii</u>¹, Ayumu Kobayashi¹, Ayaka Kanou¹, Kouta Kera¹, Seiji Kojima², Riichi Oguchi², Kouki Hibosaka², Kintake Sonoike², Yasuhiro Ishimaru¹, Nobuyuki Uozumi¹ (1^{Grad. Sch. Eng., Univ. Tohoku}, 2^{Grad. Sch. Sci., Univ. Tohoku}, 3^{Fac. Edu., Univ. Waseda})</p>	<p>3aB04 The role of OsbZIP11 transcription factor in the regulatory network of nitrogen deficiency response <u>Namie Ohtsuki</u>¹, Yoshiaki Ueda², Yasuhiro Sakuraba¹, Shuichi Yanagisawa¹ (1^{Grad. Sch. Agr. Sci. Univ. Tokyo}, 2^{JIRCAS})</p>	<p>3aC04 Elucidation for the chloroplast homeostasis mechanism via regulation of chlorophyll biosynthesis by a novel BR signaling factor BPG4 <u>Ryo Tachibana</u>¹, Susumu Abe², Momo Marugami², Ayumi Yamagami¹, Shohei Nosaki³, Takuya Miyakawa¹, Takehito Inaba⁴, Minami Matsui⁵, Tetsuo Kushi², Kentaro Ifuku⁶, Tadao Asami⁷, Takeshi Nakano¹ (1^{Grad. Sch. Biostudies., Kyoto Univ.}, 2^{Dept. Agri., Meiji Univ.}, 3^{Sch. Life and Environmental sci., Tsukuba Univ.}, 4^{Dept. Agri. Univ., Miyazaki Univ.}, 5^{RIKEN CSRS}, 6^{Grad. Sch. Agri., Kyoto Univ.}, 7^{Grad. Sch. Agri. Life Sci., Univ. Tokyo})</p>	<p>3aD04 Regulation of rate and direction of polar tip growth of <i>Marchantia</i> rhizoids and cytosolic Ca²⁺ dynamics <u>Kenji Hashimoto</u>, Toru Ikeuchi, Mariko Higashijima, Naoaki Abe, Hana Kojima, Kazuyuki Kuchitsu (Dept. Appl. Biol. Sci., Tokyo Univ. of Science)</p>
10:00	<p>3aA05 Effects of far-red light on thylakoid functions: Biochemical analyses <u>Ichiro Terashima</u>, Masaru Kono (Sch. Sci., Univ. Tokyo)</p>	<p>3aB05 The role of OsHHO3 transcription repressor in nitrogen deficiency response of rice plants Kexin Liu¹, <u>Yasuhiro Sakuraba</u>¹, Yoshiaki Ueda², Namie Ohtsuki¹, Mailun Yang¹, Shuichi Yanagisawa¹ (1^{Grad. Sch. Agri. Life Sci., Univ. Tokyo}, 2^{JIRCAS})</p>	<p>3aC05 Construction of the genetic system for systematic accumulation the stringent response factor ppGpp to improve plant biomass productivity <u>Mina Goto</u>¹, Sousuke Imamura², Kazuhiro Takaya², Shinji Masuda¹ (1^{Grad. Life Sci. Tech., Tokyo Tech.}, 2^{SE Labs, NTT})</p>	<p>3aD05 Fast electrical signals controlling the movement of the carnivorous plant <i>Drosera rotundifolia</i> <u>Shoji Segami</u>^{1,2}, Palfalvi Gergo¹, Kuniaki Tanase^{1,3}, Riku Matsuda^{1,3}, Peng Chen^{1,2}, Hiraku Suda⁴, Takushi Shimomura⁵, Shoko Ohi¹, Masatsugu Toyota⁴, Mitsuyasu Hasebe^{1,2} (1^{NIBB}, 2^{SOKENDAI}, 3^{Grad. Sch. Sci., Nagoya Univ.}, 4^{Grad. Sch. Sci. Eng., Saitama Univ.}, 5^{NIPS})</p>
10:15	<p>3aA06 Mechanism of Acceleration of Photosynthesis by Far-red Light: Analyses using Thylakoids <u>Masaru Kono</u>, Ichiro Terashima (Biol. Sci., Grad. Sch. Sci., Univ. Tokyo)</p>	<p>3aB06 ⓔ The role of OsHHO3 transcription repressor in controlling phosphorus acquisition in rice <u>Mailun Yang</u>, Kexin Liu, Yasuhiro Sakuraba, Shuichi Yanagisawa (Agro-Biotech. Res. Center, Grad. Sch. Agri. Life Sci., Univ. Tokyo)</p>	<p>3aC06 Activation of a plant organellar C-to-URNA editing enzyme by complex formation <u>Mizuki Takenaka</u>¹, Sachiko Toma-Fukai², Frink Brody¹, Tenghua Wang¹, Sachi Takenaka¹, Toshiharu Shikanai¹, Toshiyuki Shimizu³ (1^{Grad. Sch. Sci., Kyoto Univ.}, 2^{Div. of Material Sci., NAIST}, 3^{Grad. Sch. Sci., Univ. Tokyo})</p>	<p>3aD06 ⓔ Effector signaling in plant hypersensitive response; The single Molecule Signaling Analysis in potato-P. infestans Interaction <u>Naotaka Furuichi</u> (Plant Defence Molecular Institute)</p>

Room E	Room F	Room G	Room H	Room I	Room X	Room Y	Room Z	Time	
Plant hormones/ Signaling molecules	Environmental response B/ Environmental stresses	Development/Morphogenesis	Plant-organism interaction B						
<p>3aE01 E An activity of phytoene desaturase negatively regulates auxin biosynthesis and signaling <u>Kang Xu</u>¹, Haoran Zeng¹, Emi Yumoto², Masashi Asahina^{2,3}, Ken-ichiro Hayashi⁴, Hidehiro Fukaki⁵, Hisashi Ito⁶, Masaki K. Watahiki^{1,7} (¹Grad. Sch. Life., Univ. Hokkaido, ²Adv. Inst. Anal. Center., Univ. Teikyo, ³Dept. Biosci., Univ. Teikyo, ⁴Dept. Biosci., Univ. Okayama of Science, ⁵Grad. Sch. Sci., Univ. Kobe, ⁶Inst. Low Temp. Sci., Univ. Hokkaido, ⁷Div. BioSci., Fac. Sci., Univ. Hokkaido)</p>	<p>3aF01 Analyses of stress granules and HSPs dynamics under high temperature conditions <u>Yuzuki Nishi</u>¹, Mei Ichikawa¹, Yukiko Yamamoto¹, Hiroko Iwanaga¹, Akie Miura¹, Takahito Takei^{1,2}, Yuichiro Watanabe³, Takahiro Hamada¹ (¹Fac. of Sci., Okayama Univ. of Sci., ²Grad. Sch. Sci., Univ. Tokyo, ³Grad. Sch. Arts and Sci., Univ. Tokyo.)</p>	<p>3aG01 Two-step regulation of lateral root spacing in <i>Arabidopsis thaliana</i> <u>Shohei Oshiro</u>¹, Tatsuaki Goh¹, Yohei Kondo², Takaaki Yonekura³, Hidehiro Fukaki⁴, Keiji Nakajima¹ (¹Div. Biol. Sci., NAIIST, ²ExCELLS, ³Dept. Biol., Grad. Sch. Sci., Univ. Tokyo, ⁴Grad. Sch. Sci., Kobe Univ.)</p>	<p>3aH01 The function of OsSYMRRK in AM symbiosis and its evolutionary trajectory <u>Kana Miyata</u>, Moe Hosotani, Wendi Jiang, Ryo Takaoka, Kotaro Matsumoto, Hanae Kaku (Sch. Agri., Meiji Univ.)</p>		Symposium S08 Plant biology in the era of single-cell omics (9:00–12:00)			09:00	
<p>3aE02 Indole-3 pyruvic acid regulates TAA1 activity and coordinates the two steps of auxin biosynthesis <u>Akiko Sato</u>¹, Kazuo Soeno², Rie Kikuchi¹, Megumi Narukawa-Nara¹, Chiaki Yamazaki¹, Yusuke Kakei¹, Ayako Nakamura¹, Yukihisa Shimada¹ (¹KIBR, Yokohama City Univ., ²WARC, NARO)</p>	<p>3aF02 Characterization of gene expression and cellular dynamics of conchocelis exposed to high temperature and low nutrient/osmotic pressure in a red macroalga <i>Neopyropia yezoensis</i> <u>Asuka Saito</u>¹, Mitsuaki Akutsu², Yuji Hiwatashi^{1,2} (¹School of Food Industrial Sciences, Miyagi University, ²Grad. Sch. food, agric. envi sci, Univ. Miyagi)</p>	<p>3aG02 The Role of Auxin Biosynthesis in Nuclear Migration in Lateral Root Founder Cells <u>Sanae Kaneta</u>, Tatsu Kakimoto (Grad. Sch. Sci., Osaka Univ.)</p>	<p>3aH02 Comparative transcriptome analysis of tomato roots forming different morphotypes of arbuscular mycorrhizae <u>Hikaru Saito</u>¹, Takaya Tominaga², Luxi Yao³, Mayumi Egusa³, Hironori Kaminaka³ (¹Dept. Agr. Sci., Grad. Sch. Sust. Sci., Tottori Univ., ²United Grad. Sch. Agr., Tottori Univ., ³Fac. Agr., Tottori Univ.)</p>						09:15
<p>3aE03 Unknown signaling molecules direct roots of parasitic plants toward host plants <u>Marina Hayashi</u>^{1,2}, Masakazu Nambo², Toshinori Kinoshita^{1,2}, Yuichiro Tsuchiya² (¹Grad. Sch. Sci., Univ. Nagoya, ²ITbM, Nagoya Univ.)</p>	<p>3aF03 Physiological And Genetic Analyses Of <i>gsensitive to long-term heat1 (sloh1)</i> Mutant Of <i>Arabidopsis thaliana</i> <u>Ryo Yamaguchi</u>¹, Keisuke Tanaka², Izumi Yotsui¹, Yoichi Sakata¹, Teruaki Taji¹ (¹Dept. of Biosci., Tokyo Univ. of Agri., ²Nodai Genome Cent., Tokyo Univ. of Agri.)</p>	<p>3aG03 E Dimorphism of LR growth of <i>shy2/iaa3</i> and wt regulated by auxin <u>Feiyan Lin</u>¹, Hidehiro Fukaki², Masaaki K. Watahiki^{1,3} (¹Grad. Sch. Life Sci., Hokkaido Univ., ²Grad. Sch. of Sci., Kobe Univ., ³Fac. Sci, Hokkaido Univ.)</p>	<p>3aH03 Iridoid glucosides of lisanthus exhibit the lineage-specific hyphal branching activity in arbuscular mycorrhizal fungi <u>Takaya Tominaga</u>¹, Kotomi Ueno², Mayumi Egusa², Hikaru Saito³, Hironori Kaminaka³ (¹United Grad. Sch. Agr., Tottori Univ., ²Fac. Agr., Tottori Univ., ³Dept. Agr. Sci., Grad. Sch. Sust. Sci., Tottori Univ.)</p>						09:30
<p>3aE04 Analysis of strigolactone signaling pathway evolution using Gymnosperm <u>Kyoichi Kodama</u>¹, Xiaonan Xie², Junko Kyoizuka¹ (¹Grad. Sch. Sci., Univ. Tohoku, ²Sch. bio., Univ. Utsunomiya)</p>	<p>3aF04 Contribution of splicing-related factor to long-term heat response in <i>Arabidopsis thaliana</i> <u>Naoya Endo</u>, Ryo Tsukimoto, Kazuho Isono, Izumi Yotsui, Yoichi Sakata, Teruaki Taji (Dept. of Biosci., Tokyo Univ. of Agri.)</p>	<p>3aG04 E Investigation of a gene network of lateral root formation <u>Peiyuan Li</u>¹, Masaaki K. Watahiki^{1,2} (¹Grad. Sch. life., Univ. HoKkaido, ²Div. BioSci., Fac. Sci. Univ. HoKkaido)</p>	<p>3aH04 E Root endophyte <i>Colletotrichum tofteldiae</i> promotes <i>Arabidopsis thaliana</i> growth under nitrogen limiting conditions <u>Tan Anh Nhi Nguyen</u>, Yuniar Devi Utami, Masami Nakamura, Kei Hiruma (Grad. Sch. Arts and Sci., Univ. Tokyo)</p>						09:45
<p>3aE05 Functional analysis of carlactonicoic acid methyltransferases in rice <u>Kiyoshi Mashiguchi</u>^{1,2}, Yuki Sakurai², Naoki Kitaoka^{2,3}, Shinjiro Yamaguchi^{1,2} (¹ICR, Kyoto Univ., ²Grad. Sch. Life Sci., Tohoku Univ., ³Grad. Sch. Agri., Hokkaido Univ.)</p>	<p>3aF05 The role of mitochondrial RNA editing in long-term heat stress tolerance of <i>Arabidopsis</i> <u>Riho Sawai</u>, Koki Misawa, Fumiaki Asahi, Izumi Yotsui, Teruaki Taji, Yoichi Sakata (Dept. of Biosci., Tokyo Univ. of Agri.)</p>	<p>3aG05 Heme signaling in aboveground tissues regulates lateral root morphology via pre-mRNA splicing regulation <u>Natsu Takayanagi</u>¹, Toshihiro Arae¹, Hirokazu Takahashi², Takayuki Shimizu³, Gorou Horiguchi⁴, Mitsuhiro Aida⁵, Hidehiro Fukaki⁶, Tatsuru Masuda³, Misato Ohtani^{1,2,7} (¹Grad. Sch. Front. Sci., Univ. Tokyo, ²Div. Biol. Sci., NAIIST, ³Grad. Sch. Art and Sci., Univ. Tokyo, ⁴Dept. Life Sci., Rikkyo Univ., ⁵FAST, Kumamoto Univ., ⁶Grad. Sch. Sci., Kobe Univ., ⁷CSRS, RIKEN)</p>	<p>3aH05 Isolation of Lateral Root-Inducing Diffusible Compounds Produced by the Endophytic Fungus <i>Serendipita indica</i> <u>Hirota Matsura</u>, Takumi Ogawa, Atsushi Okazawa, Daisaku Ohta (Grad. Sch. Agric., Osaka Met. Univ.)</p>						10:00
<p>3aE06 Effect of Strigolactones Hydrolysis on <i>Striga</i> Germination <u>Kakeru Shioya</u>¹, Takashi Ooi², Yuichiro Tsuchiya² (¹Grad. Sch. Sci., Univ. Nagoya, ²Institute of Transformative Bio-Molecules, Univ. Nagoya)</p>	<p>3aF06 E The <i>hst1</i> gene promotes the growth performance of rice (<i>Oryza sativa</i> L.) genotypes under high temperature and drought stress <u>Ermelinda Maria Lopes Hormai</u>^{1,2}, Murat Aycan³, Toshiaki Mitsui³ (¹Department of Life and Food Sciences, Graduate School of Science and Technology, Niigata University, Niigata, Japan., ²Division of Research and Statistics, Timor-Leste Ministry of Agriculture and Fisheries, Dili, Timor-Leste., ³Laboratory of Biochemistry, Faculty of Agriculture, Niigata University, Niigata, Japan.)</p>	<p>3aG06 Functional Analysis of RLF, a Cytochrome <i>b₅</i>-Like Heme Binding Protein, in Plant Organ Development <u>Kentaro Iwata</u>¹, Chieko Goto¹, Hinatamaru Fukumura¹, Takayuki Shimizu², Kaisei Maruyama³, Tomoyuki Furuya^{1,4}, Yuki Kondo¹, Hiroyuki Kasahara^{3,5}, Tatsuru Masuda², Kimitsune Ishizaki¹, Hidehiro Fukaki¹ (¹Grad. Sch. of Sci., Kobe Univ., ²Grad. Sch. of Arts and Sci., Univ. Tokyo, ³Grad. Sch. of Agri., Tokyo Univ. of Agri. and Tech., ⁴Col. Life Sci., Ritsumeikan Univ., ⁵RIKEN, CSRS)</p>	<p>3aH06 Exploring the mechanism of stomatal manipulation by the symbiotic bacterium <i>Pseudomonas paralactis</i> <u>Rikako Hirata</u>¹, Momoko Takagi², Yuniar Devi Utami³, Kei Hiruma³, Yosuke Toda^{2,4}, Akira Mine¹ (¹Grad. Sch. Agr., Kyoto Univ., ²ITbM, Nagoya Univ., ³Grad. Sch. Arts and Sci., Tokyo Univ., ⁴phytometrics Co., Ltd.)</p>						10:15

● Day 3, Fri., March 17, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Primary metabolism	Organelles/Cytoskeleton	Environmental response A/ Physiological responses
10:30	<p>3aA07 Cost-benefit analysis of mesophyll conductance: a key determinant of chloroplastic CO₂ concentration and CO₂ assimilation rate <u>Yusuke Mizokami</u>¹, Riichi Oguchi², Daisuke Sugiura³, Wataru Yamori⁴, Ko Noguchi¹, Ichiro Terashima⁵ (¹Life Sci. Pharm. Tokyo Univ., ²Grad. Sch. Sci. Osaka Metropolitan Univ., ³Grad. Sch. Bioagr. Sci. Nagoya Univ., ⁴Grad. Sch. Agr. and Life Sci. Univ. Tokyo, ⁵Grad. Sch. Sci. Univ. Tokyo)</p>	<p>3aB07 The C-Terminal Region of SLIM1 Transcription Factor Is Required for Sulfur Deficiency Response Justyna Piotrowska², Yuki Jodoi¹, Ha Trang Nguyen¹, Anna Wawrzynska², Hideki Takahashi³, Agnieszka Sirko², <u>Akiko Maruyama</u>¹ (¹Kyushu University, ²Polish Academy of Sciences, ³Michigan State University)</p>	<p>3aC07 Possible involvement of chloroplast-localized mechanosensitive channels in the stomatal movements in Arabidopsis thaliana <u>Takashi Shiina</u>, Chikako Tanaka, Kanako Yamasaki, Yoko Ishizaki (Fac. Agri., Setsunan Univ.)</p>	<p>3aD07 Proteomic time-course analysis of the filamentous anoxygenic phototrophic bacterium <i>Chloroflexus aurantiacus</i> during the transition from respiratory to phototrophic growth mode <u>Shigeru Kawai</u>, Shigeru Shimamura, Yasuhiro Shimane, Yusuke Tsukatani (JAMSTEC)</p>
10:45	<p>3aA08 Analysis of the functional aspartate pathway in flaveria in NADP-ME type C4 plants <u>Seika Hirai</u>, Tsuyoshi Furumoto (Plant. life sci., Univ. Ryukoku)</p>	<p>3aB08 Effects of NADP⁺ dephosphorylation under dark condition on respiratory metabolism in <i>Arabidopsis thaliana</i> <u>Shin-nosuke Hashida</u>¹, Yusuke Fukuda², Maki Kawai-Yamada³ (¹Bio. Environ. Chem., CRIEPI, ²CERES, Co., ³Grad. Sch. Sci. Eng., Saitama Univ.)</p>	<p>3aC08 Development of fluorescence molecular probes for rapid live-cell imaging of starch in plants <u>Shuheji Kusano</u>, Sakuya Nakamura, Masanori Izumi, Shinya Hagihara (RIKEN CSRS)</p>	<p>3aD08 Exploring genetic factors involved in low CO₂ response in Arabidopsis <u>Kosei Yoneda</u>, Susumu Uehara, Yasuko Ito-Inaba, Takehito Inaba (Fac. Agr., Univ. Miyazaki)</p>
11:00	<p>3aA09 A pyrenoid-localized protein SAGA1 is necessary for Ca²⁺-binding protein CAS-dependent expression of nuclear genes encoding inorganic carbon transporters in <i>Chlamydomonas reinhardtii</i> <u>Daisuke Shimamura</u>, Yuki Niikawa, Donghui Hu, Takashi Yamano, Hideya Fukuzawa (Grad. sch. Biostudies., Kyoto Univ.)</p>	<p>3aB09 The Chlamydomonas MYB1 Is Involved in Lipid Remodeling under Phosphorus Deficiency <u>Kosei Fukuda</u>, Koichi Hori, Yuta Ihara, Mie Shimojima, Hiroyuki Ohta (Sch. Life Sci. and Tech., Tokyo Tech)</p>	<p>3aC09 Galactolipids contribute to balancing two differential structures of etioplast membranes <u>Sho Fujii</u>^{1,2}, Kae Akita³, Ayuka Oome³, Mizue Kajikawa^{2,3}, Hajime Wada², Noriko Nagata³, Koichi Kobayashi⁴ (¹Fac. Ag. Life Sci., Hirosaki Univ., ²Grad. Sch. Arts Sci., Univ. Tokyo, ³Fac. Sci., Japan Women's Univ., ⁴Fac. Lib. Arts Sci. Glob. Edu., Osaka Met. Univ.)</p>	<p>3aD09 Analyses of mesophyll signal regulating stomatal closure at high [CO₂] <u>Ryuu Morikawa</u>, Eigo Ando, Ichirou Terashima (Dep. Biol. Sci., Fac. Sci., Univ. Tokyo)</p>
11:15	<p>3aA10 Environmental Responses Of PtBests And TpBests. Candidate Bicarbonate Transporters In The Diatom Thylakoid Membrane <u>Minoru Nigishi</u>, Kansei Yamagishi, Ryosuke Amano, Shun Ito, Ginga Shimakawa, Yusuke Matsuda (Grad. Sch. Sci., Univ. Kwansei-Gakuin)</p>	<p>3aB10 Exploration of the subcellular sites for the phytosterol biosynthesis and storage <u>Kazuki Isobe</u>¹, Yuri Fujii¹, Takashi L. Shimada², Ikuko Hara-Nishimura³, Daisaku Ohta¹ (¹Grad. Sch. Agri., Osaka Met. Univ., ²Grad. Sch. Hort., Chiba Univ., ³Fac. Sci. Eng., Konan Univ.)</p>	<p>3aC10 Pexophagy suppresses ROS-induced damage in leaf cells under high intensity light <u>Kazusato Oikawa</u>¹, Shino Goto-Yamada², Yasuko Hayashi³, Michitaro Shibata⁴, Maki Kondo¹, Shoji Mano¹, Haruko Ueda⁵, Ikuko Hara-Nishimura⁵, Kenji Yamada², Mikio Nishimura^{1,5} (¹Laboratory of Organelle Regulation., National Institute for Basic Biology, ²Malopolska Centre of Biotechnol., Jagiellonian Univ., ³Department of Science, Faculty of Science, Niigata University, ⁴RIKEN Center for Sustainable Resource Science, ⁵Faculty of Science and Engineering, Konan University)</p>	

Room E	Room F	Room G	Room H	Room I	Room X	Room Y	Room Z	Time
Plant hormones/ Signaling molecules	Environmental response B/ Environmental stresses	Development/Morphogenesis	Plant-organism interaction B					
<p>3aE07 E Functional analysis of parasitic plant <i>Striga hermonthica</i> germination inhibitor RTC2 <u>Jia Xin Yap</u>¹, Hanae Imaizumi², Daisuke Uraguchi³, Rie Yamaguchi², Ayato Sato², Takashi Ooi^{2,3}, Toshinori Kinoshita^{1,2}, Yuichiro Tsuchiya² (¹Grad. Sch. of Sci., Nagoya Univ., ²ITbM, Nagoy Univ., ³Grad. Sch. of Engr., Nagoya Univ.)</p>	<p>3aF07 Autophagy alleviates the formation of chalky appearance of grains caused by heat stress under the high temperature during rice seed maturation <u>Shigeru Hanamata</u>^{1,2}, Daisuke Machida³, Hirome Tezuka³, Masashi Saito³, Akira Saito³, Masashi Aso³, Yuri Sera¹, Kentaro Kaneko³, Marouane Baslam², Murat Aycan², Takamitsu Kurusu⁴, Kazuyuki Kuchitsu¹, Toshiaki Mitsui^{2,3} (¹Department of Applied Biological Science, Tokyo University of Science, ²Laboratory of Biochemistry, Faculty of Agriculture, Niigata University, ³Department of Life and Food Sciences, Graduate School of Science and Technology, Niigata University, ⁴Department of Mechanical and Electrical Engineering, Suwa University of Science)</p>	<p>3aG07 E An embryo-maternal dialogue regulates <i>Arabidopsis</i> embryonic root formation <u>Yujuan Du</u>¹, Abdelhafid Bendahmane², Akie Shimotohno¹ (¹Nagoya University, ITbM, ²Institute of Plant Sciences Paris-Saclay (IPSS), INRAE, University of Paris-Saclay)</p>	<p>3aH07 Analysis of the effect of <i>Sphingobium</i> enriched in the tomato rhizosphere by α-tomatine on tomato growth <u>Kyoko Takamatsu</u>¹, Masaru Nakayasu¹, Shinichi Yamazaki², Yuichi Aoki^{2,3}, Atsushi J. Nagano^{4,5}, Masaru Kobayashi⁶, Kentaro Ifuku⁶, Kazufumi Yazaki¹, Akifumi Sugiyama¹ (¹RISH, Kyoto Univ., ²ToMMo, Tohoku Univ., ³GSIS, Tohoku Univ., ⁴Agri., Ryukoku Univ., ⁵LAB, Keio Univ., ⁶Grad. Agri., Kyoto Univ.)</p>		Symposium S08 Plant biology in the era of single-cell omics (9:00–12:00)			10:30
<p>3aE08 Identification of downstream genes of KL signaling in <i>Marchantia polymorpha</i> <u>Kazato Kumagai</u>¹, Hidemasa Suzuki¹, Aino Komatsu¹, Kyoichi Kodama¹, Xiaonan Xie², Junko Kyozyuka¹ (¹Grad. Sch. Life., Univ. Tohoku, ²Ctr. for Biosci. Res. & Educ., Utsunomiya Univ)</p>	<p>3aF08 Elucidation of the signaling mechanism that regulates heat stress responses in rice <u>Mayuko Furuhashi</u>¹, Daisuke Ogawa², Jyunichi Yonemaru², Fuminori Takahashi¹ (¹TUS, Fac. Adv. Eng., ²NARO)</p>	<p>3aG08 Dissecting the Expression Control and the Role of <i>ARF10</i> and <i>ARF16</i> in Arabidopsis Root Cap Differentiation <u>Keita Tanaka</u>¹, Asuka Furukawa¹, Seiya Iida¹, Hiroki Saito¹, Yoko Okushima², Hidehiro Fukaki², Tatsuki Goh¹, Shunsuke Miyashima¹, Keiji Nakajima¹ (¹Grad. Sch. Sci. Tech., NAIST, ²Grad. Sch. Sci., Kobe Univ.)</p>						10:45
<p>3aE09 Exploration for a novel signaling factor of gibberellin in <i>Marchantia polymorpha</i> <u>Eita Shimokawa</u>¹, Shogo Kawamura¹, Rui Sun¹, Kaori Suzuki¹, Maiko Okabe¹, Yoshihiro Yoshitake¹, Yukiko Yasui¹, Ryuichi Nishihama³, Shohei Yamaoka¹, Kiyoshi Mashiguchi², Shinjiro Yamaguchi², Takayuki Kohchi¹ (¹Grad. Sch. Biostudies, Kyoto Univ., ²Inst. Chem. Research, Kyoto Univ., ³Dep. Applied Biological Science, Tokyo Univ. of Science)</p>	<p>3aF09 Analysis of heat stress response in wheat by FTIR chemometrics <u>Yoshiki Takeda</u>¹, Salma O. M Osman^{2,3}, Shota Tadano², Yuto Yamasaki⁴, Abu Sefyan I. Saad⁵, Izzat S.A. Tahir^{3,5}, Hisashi Tsujimoto⁵, Kinya Akashi^{1,2,4,5} (¹Grad. Sch. Sust. Sci., Tottori Univ., ²United Grad. Sch. Agr., Tottori Univ., ³Ag. Res. Coop., Sudan, ⁴Fac. Agr., Tottori Univ., ⁵Arid Land Res. Center, Tottori Univ)</p>	<p>3aG09 Analysis of cell division and elongation dynamics in the Arabidopsis root tip by motion-tracking microscopy and AI-assisted image quantification <u>Tatsuaki Goh</u>¹, Yu Song², Takaaki Yonekura^{1,3}, Noriyasu Obushi⁴, Zeping Den², Katsutoshi Imizu¹, Yoko Tomizawa⁵, Yohei Kondo⁵, Shunsuke Miyashima¹, Yutaro Iwamoto^{2,6}, Masahiko Inami⁷, Yen-Wei Chen², Keiji Nakajima¹ (¹Div. Biol. Sci., NAIST, ²CISE, Ritsumeikan Univ., ³Grad. Sch. Sci., Univ. Tokyo, ⁴Grad. Sch. Engineer., Univ. Tokyo, ⁵ExCELLS, NINS, ⁶Fac. Inform. Commun. Engineer., OECU, ⁷RCast, Univ. Tokyo)</p>						11:00
<p>3aE10 E Evolution of NPR proteins: salicylic acid receptors Hyung-Woo Jeon¹, Hidekazu Iwakawa¹, Satoshi Naramoto², Cornelia Herrfurth³, Nora Gutsche⁴, Titus Schlüter¹, Junko Kyozyuka², Shingo Miyauchi¹, Ivo Feussner³, Sabine Zachgo⁴, <u>Hirofumi Nakagami</u>¹ (¹Max Planck Institute for Plant Breeding Research, ²Tohoku University, ³University of Göttingen, ⁴Osnabrück University)</p>	<p>3aF10 E Ethanol treatment induces heat tolerance in tomato plants <u>Daisuke Todaka</u>¹, Quynh Do^{1,4}, Maho Tanaka^{1,2}, Akihiro Ezoe¹, Satoshi Takahashi^{1,2}, Junko Ishida^{1,2}, Miyako Kusano^{5,6,7}, Makoto Kobayashi⁵, Kazuki Saito⁵, Atsushi J. Nagano^{8,9}, Motoaki Seki^{1,2,3} (¹Plant Genomic Network Research Team, CSRS, RIKEN, ²Plant Epigenome Regulation Laboratory, CPR, RIKEN, ³Kihara Institute for Biological Research, YCU, ⁴Agricultural Genetics Institute, Pham Van Dong Road, Bac Tu Liem District, ⁵Metabolomics Research Group, CSRS, RIKEN, ⁶Graduate School of Life and Environmental Sciences, Univ. of Tsukuba, ⁷Tsukuba Plant Innovation Research Center, Univ. of Tsukuba, ⁸Faculty of Agriculture, Ryukoku Univ., ⁹Institute for Advanced Biosciences, Keio Univ.)</p>	<p>3aG10 Role of PATROL1 in root, which involved in intracellular vesicle trafficking Michitaka Notaguchi^{1,2}, Manami Ichita³, Takaya Kawasoe⁴, Keina Monda⁵, Ken-ichi Kurotani², Koh Iba⁵, <u>Mimi Hashimoto-Sugimoto</u>¹ (¹Nagoya Univ. Bioagr. sci., ²Nagoya Univ. Biosci. Biotech. Center, ³Kumamoto Univ. Sci., ⁴Kumamoto Univ. Sci. Technol., ⁵Kyushu Univ. Sei)</p>						11:15

● Day 3, Fri., March 17, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Primary metabolism	Organelles/Cytoskeleton	Environmental response A/ Physiological responses
11:30	<p>3aA11 Different responses of photosynthesis to nitrogen starvation between highly oil-accumulative diatoms, <i>Fistulifera solaris</i> and <i>Mayamaea</i> sp. JPCC CTDA0820 <u>Momoka Amano</u>¹, Mana Nakayasu¹, Ginga Shimakawa¹, Tsuyoshi Tanaka², Yusuke Matsuda¹ (¹Sch. Sci. Tech., Kwansei-Gakuin Univ., ²Sch. Tech., Tokyo Agric. Tech. Univ.)</p>	<p>3aB11 Seasonal changes in sugar alcohols contained in male strobili of sugi <u>Tomohiro Igasaki</u>¹, Koichi Kakegawa², Shojiro Hishiyama², Koh Hashida² (¹Molec. Gen. Biotech. FFPRI, ²Res. Chm., FFPRI)</p>	<p>3aC11 Chloroplast gene expression in response to light intensity up-shifts and its regulation by the two-component system in <i>Cyanidioschyzon merolae</i> <u>Akira Yasuda</u>¹, Sousuke Imamura², Kan Tanaka², Mitsumasa Hanaoka^{1,3} (¹Grad. Sch. Horticult., Chiba Univ., ²Lab. Chem. Life Sci., Tokyo Inst. Tech., ³Plant Mol. Sch. Cent., Chiba Univ.)</p>	
11:45	<p>3aA12 The role of Lhcx Isoforms in photoprotection mechanism in the diatom, <i>Thalassiosira pseudonana</i> <u>Mana Nakayasu</u>¹, Kohei Yoneda², Ginga Shimakawa¹, Yusuke Matsuda¹ (¹Grad. Sch. Sci. Tech., Kwansei Gakuin Univ., ²Fac. Life Environ. Sci., Univ. Tsukuba)</p>		<p>3aC12 Involvement of heme on light-dependent transcriptional regulation by retrograde signaling in <i>Cyanidioschyzon merolae</i> <u>Haruka Saito</u>¹, Hikaru Ohara¹, Yuki Kobayashi², Kan Tanaka², Masayuki Igarashi³, Ryutaro Utsumi⁴, Toshihide Okajima⁴, Mitsumasa Hanaoka^{1,5} (¹Grad. Sch. Horticult., Chiba Univ., ²Lab. Chem. Life Sci., Tokyo Inst. Tech., ³Inst. Microb. Chem., ⁴SANKEN, Osaka Univ., ⁵Plant Mol. Sch. Cent., Chiba Univ.)</p>	

Room E	Room F	Room G	Room H	Room I	Room X	Room Y	Room Z	Time
Plant hormones/ Signaling molecules	Environmental response B/ Environmental stresses	Development/Morphogenesis	Plant-organism interaction B					
<p>3aE11 Screening and Analysis of molecular mechanism of novel plant growth promotor PPG <u>Kazuma Ohata</u>¹, Shun Takeno^{2,3}, Shota Tanaka^{2,3}, Keiya Kaga^{1,7}, Ayumi Yamagami¹, Setsuko Shimada², Minami Matsui², Yusuke Kakei⁴, Yukihisa Shimada⁴, Shoji Segami⁵, Ryosuke Sasaki², Masami Yokota Hirai², Yasumitsu Kondo², Naoshi Dohmae², Tetsuo Kushiro³, Masayoshi Maeshima⁵, Tadao Asami⁶, Hiroyuki Osada², Kazuo Shinozaki², Masaru Ohme-Takagi⁷, Takeshi Nakano¹ (¹Grad. Sch. Biostudies, Kyoto Univ., ²RIKEN CSRS, ³Grad. Agri. Chem., Meiji Univ., ⁴Yokohama City Univ., ⁵Grad Sch. Biol. Agri., Nagoya Univ., ⁶Grad. Sch. Appl. Biol. Chem., Univ. of Tokyo, ⁷Grad. Sch. Sci. Eng., Saitama Univ.)</p>	<p>3aF11 E Ethanol-mediated survival strategy against drought stress in plants <u>Khurram Bashir</u>^{1,2}, Daisuke Todaka², Sultana Rasheed², Akihiro Matsui^{2,3}, Zarnab Ahmad¹, Kaori Sako⁴, Yoshinori Utsumi², Anh Thu Vu², Muneeba Siddique¹, Mehrooz Adana Qureshi¹, Maho Tanaka^{2,3}, Satoshi Takahashi^{2,3}, Junko Ishida^{2,3}, Yuuri Tsuboi⁵, Shunsuke Watanabe^{6,7}, Yuri Kanno⁶, Eigo Ando^{8,9}, Makoto Seito¹⁰, Hinata Motegi^{2,10}, Muneo Sato¹¹, Rui Li¹¹, Saya Kikuchi¹², Miki Fujita¹², Miyako Kusano^{13,14}, Makoto Kobayashi¹³, Yoshiaki Habu^{14,15}, Atsushi J. Nagano^{16,17}, Kanako Kawaura¹⁰, Jun Kikuchi^{5,18,19}, Kazuki Saito¹³, Masami Yokota Hirai¹¹, Mitsunori Seo⁶, Kazuo Shinozaki¹², Toshinori Kinoshita^{8,20}, Motoaki Seki^{2,4,10} (¹Department of Life Sciences, SBA School of Science and Engineering, Lahore University of Management Sciences, ²Plant Genomic Network Research Team, Center for Sustainable Resource Science, RIKEN, ³Plant Epigenome Regulation Laboratory, Cluster for Pioneering Research, RIKEN, ⁴Department of Advanced Bioscience, Faculty of Agriculture, Kindai University, ⁵Environmental Metabolic Analysis Research Team, Center for Sustainable Resource Science, RIKEN, ⁶Dormancy and Adaptation Research Unit, Center for Sustainable Resource Science, RIKEN, ⁷IPSiM, University of Montpellier, CNRS, INRAE, Institut Agro, ⁸Division of Biological Sciences, Graduate School of Science, Nagoya University, ⁹Department of Biological Sciences, School of Science, The University of Tokyo, ¹⁰Kihara Institute for Biological Research, Yokohama City University, ¹¹Mass Spectrometry and Microscopy Unit, Center for Sustainable Resource Science, RIKEN, ¹²Gene Discovery Research Group, Center for Sustainable Resource Science, RIKEN, ¹³Metabolomics Research Group, Center for Sustainable Resource Science, RIKEN, ¹⁴Graduate School of Life and Environmental Sciences, University of Tsukuba, ¹⁵Institute of Agrobiological Sciences, National Agriculture and Food Research Organization, ¹⁶Faculty of Agriculture, Ryukoku University, ¹⁷Institute for Advanced Biosciences, Keio University, ¹⁸Graduate School of Medical Life Science, Yokohama City University, ¹⁹Graduate School of Bioagricultural Sciences, Nagoya University, ²⁰Institute of Transformative Bio-Molecules (WPI-ITbM), Nagoya University)</p>	<p>3aG11 E <i>Arabidopsis thaliana</i> <i>RPL13aC</i> regulates root system architecture through shoot potassium accumulation <u>Dichao Ma</u>, Hirofumi Fukuda, Naoyuki Sotta, Toru Fujiwara (Grad. Sch. Agri., Univ. Tokyo)</p>			Symposium S08 Plant biology in the era of single-cell omics (9:00–12:00)			11:30
<p>3aE12 Analysis of a novel small compound promoting hypocotyl growth of <i>Arabidopsis thaliana</i> <u>Mizuki Murao</u>¹, Rika Kato¹, Rina Hisamatsu², Ayato Sato², Shinya Hagihara³, Kenichiro Itami², Keiko Torii^{2,4}, Naoyuki Uchida⁵ (¹Nagoya Univ · Grad. Sci., ²Nagoya Univ · ITbM, ³Riken · CSRS, ⁴UT Austin, HHMI, ⁵Nagoya Univ · Ctr. Gene Res.)</p>	<p>3aF12 Gene expression analysis using RNA-Seq in potato (<i>Solanum Tuberosum</i> L.) during drought stress <u>Kenta Kawamoto</u>, Hirofumi Masutomi, Katsuyuki Ishihara (Calbee, Inc.)</p>	<p>3aG12 Periodic expression patterns of nodule symbiosis-related genes in <i>Lotus japonicus</i> <u>Takashi Soyano</u>, Masayoshi Kawaguchi (NIBB)</p>						11:45

● Day 3, Fri., March 17, PM (13:30–16:30)

Time	Room A	Room B	Room C	Room D
	Cell cycle/Cell division	Primary metabolism	Cell wall	Photoreceptors/Photoresponses
13:30	<p>3pA01 </p> <p>Control of DNA replication by histone methyltransferases ATXR5 and ATXR6 in <i>Arabidopsis thaliana</i> <u>Kar Yee Moo</u>¹, Akiko Masada¹, Haruka Manabe¹, Hiroto Takatsuka², Shiori S Aki¹, Masaaki Umeda¹ (¹Graduate School of Science and Technology, Nara Institute of Science and Technology, ²School of Biological Science and Technology, College of Science and Engineering, Kanazawa University)</p>	<p>3pB01 </p> <p>Phosphatidylcholine biosynthesis pathways in Arabidopsis - a role of distinct methyltransferases <u>Yuki Nakamura</u>^{1,2,3}, Yu-Chi Liu³, Anh H. Ngo^{1,3}, Yue-Rong Tan³, Ying-Chen Lin³, Artik Elisa Angkawijaya^{1,3}, Van Cam Nguyen^{1,3}, Kazue Kanehara³ (¹RIKEN CSRS, ²Grad. Sch. Sci., Univ. Tokyo, ³IPMB, Academia Sinica)</p>	<p>3pC01</p> <p>Analysis of Regulatory Mechanisms of Cell Wall Construction in Tomato Fruit Morphological Changes under Calcium Deficiency Conditions <u>Kiei Soyama</u>¹, Akari Miyakoshi², Momoko Miyachi², Haruka Sugiyama², Manatsu Itano², Takumi Higaki³, Shinobu Satoh², Jun Furukawa², Hiroaki Iwai² (¹Grad. Sch. Sci. and Tech., Univ. Tsukuba, ²Institute of Life and Environ. Sci., Univ. Tsukuba, ³Grad. Sch. Sci. and Tech., Univ. Kumamoto)</p>	<p>3pD01</p> <p>Functional Role Of The Kinesin-like Protein MpKAC In Light-dependent Nuclear Positioning In <i>Marchantia</i> <u>Kosei Iwabuchi</u>¹, Hiroki Yagi², Nanaka Oki², Reina Yokohata², Asami Nakata², Saya Hiromoto², Aino Komatsu³, Yuuki Sakai⁴, Shingo Takagi⁵, Ryuichi Nishihama⁶, Takayuki Kohechi⁷, Yo-hei Watanabe², Haruko Ueda², Ikuko Hara-Nishimura² (¹Fac. Med., Osaka Med. Pharm. Univ., ²Fac. Sci. Eng., Konan Univ., ³Grad. Sch. Life Sci., Tohoku Univ., ⁴Grad. Sch. Sci., Kobe Univ., ⁵Grad. Sch. Sci., Osaka Univ., ⁶Fac. Sci. Technol., Tokyo Univ. Sci., ⁷Grad. Sch. Biostudies, Kyoto Univ.)</p>
13:45	<p>3pA02</p> <p>Functional analysis of the cell cycle regulators WEE1 and CDC25 in <i>Marchantia polymorpha</i> <u>Ayumi Oda</u>¹, Shiori S Aki¹, Ryuichi Nishihama², Masaaki Umeda¹ (¹Graduate School of Science and Technology, Nara Institute of Science and Technology, ²Faculty of Science and Technology, Department of Applied Biological Science, Tokyo University of Science)</p>	<p>3pB02 </p> <p>Detecting the Interplay Between DNA Methylation and Lipid Production in Plants <u>Jo-Wei Allison Hsieh</u>^{1,2}, Yu-Chi Liu¹, Lin-Tzu Huang¹, Yuki Nakamura^{3,4}, Pao-Yang Chen^{1,2} (¹Institute of Plant and Microbial Biology, Academia Sinica, Taipei, Taiwan, ²Genome and Systems Biology Degree Program, Academia Sinica and National Taiwan University, Taipei, Taiwan, ³RIKEN Center for Sustainable Resource Science, Yokohama, Japan, ⁴Graduate School of Science, The University of Tokyo, Japan)</p>	<p>3pC02</p> <p>Search for the target molecules of Rboh-derived ROS in <i>Marchantia polymorpha</i>: Are the cross-linking of cell wall structure glycoproteins, classical extensins, involved? <u>Kayo Kamiya</u>, Mariko Higashijima, Yuto Yamashita, Naoaki Abe, Sachi Shirato, Kenji Hashimoto, Kazuyuki Kuchitsu (Appl. Biol. Sci., Tokyo Univ. of Science)</p>	<p>3pD02</p> <p>Speed of signal transmission in chloroplast accumulation response depends on phototropin expression levels <u>Satoyuki Hirano</u>^{1,2}, Haruki Nishio^{3,4}, Yutaka Kodama^{1,2} (¹Ctr. Biosci. Res. Educ., Utsunomiya Univ., ²Grad. Sch. Reg. Dev. Creat., Utsunomiya Univ., ³DS center, Shiga Univ., ⁴CER, Kyoto Univ.)</p>
14:00	<p>3pA03</p> <p>DNA Damage Response in <i>M. polymorpha</i>, a basal lineage of land plants <u>Kaoru Yoshiyama</u>¹, Tomoaki Sakamoto², Seisuke Kimura², Atsushi Higashitani¹, Jun Hidema¹ (¹Tohoku Univ. Life Sciences, ²Kyoto Sangyo Univ. Life Sciences)</p>	<p>3pB03 </p> <p>Role of LYSOPHOSPHATIDIC ACID ACYLTRANSFERASE 2 (LPAT2) in <i>de novo</i> glycerolipid metabolism and developmental control: Two sides of the same coin? <u>Nina Alyssa Barroga</u>^{1,2,3}, Yuki Nakamura¹ (¹Center for Sustainable Resource Science, RIKEN, Yokohama 230-0045, ²Institute of Plant and Microbial Biology, Academia Sinica, Taipei 11529, Taiwan, ³Molecular and Biological Agricultural Sciences Program, Taiwan International Graduate Program, Academia Sinica and National Chung Hsing University, Taipei 11529, Taiwan)</p>	<p>3pC03</p> <p>Multi-directional planar expansion of pavement cells facilitates round, fan-like cotyledon morphogenesis in <i>Arabidopsis thaliana</i> <u>Kotomi Kikukawa</u>¹, Hisako Takigawa-Imamura², Kouichi Soga³, Toshihisa Kotake⁴, Takumi Higaki¹ (¹Grad. Sch. Sci. Tech., Univ. Kumamoto, ²Grad. Sch. Med. Sci., Univ. Kyushu, ³Grad. Sch. Sci., Univ. Osaka Metropolitan, ⁴Grad. Sch. Sci. Eng., Univ. Saitama)</p>	<p>3pD03</p> <p>Identification of phosphorylation sites of a blue-light receptor phototropin to induce chloroplast cold-avoidance response <u>Minoru Noguchi</u>^{1,2}, Yutaka Kodama^{1,2} (¹Ctr. Biosci. Res. Educ., Utsunomiya Univ., ²Grad. Sch. Reg. Dev. Creat., Utsunomiya Univ.)</p>
14:15	<p>3pA04</p> <p>Functional analyses of HPY2/NSE2 and SMC5/6 complex in the regulation of plant cell cycle <u>Takashi Ishida</u>, Mika Yoshimura (Kumamoto Univ. FAST)</p>	<p>3pB04 </p> <p>A Pair of Arabidopsis Diacylglycerol Kinases Involved In Phosphatidylglycerol Biosynthesis in the Endoplasmic Reticulum <u>Van Nguyen</u> (RIKEN Center for Sustainable Resource Science (CSRS), RIKEN Yokohama)</p>	<p>3pC04</p> <p>Aliphatic omega-hydroxylases function is essential for apoplastic barrier formation in <i>Physcomitrium patens</i> <u>Kanade Tatsumi</u>, Hugues Renault (CNRS, IBMP, Strasbourg Univ.)</p>	<p>3pD04</p> <p>Phosphorylation of two residues in plasma membrane H⁺-ATPase is essential for blue light-dependent stomatal opening <u>Saashia Fujii</u>¹, Shota Yamauchi¹, Naoyuki Sugiyama², Ryuichi Nishihama³, Ken-ichiro Shimazaki⁴, Atsushi Takemiya¹ (¹Grad. Sch. Sci. Tech. Innov., Yamaguchi Univ., ²Grad. Sch. Pharm. Sci., Kyoto Univ., ³Fac. Sci. Tech., Tokyo Univ. Sci., ⁴Grad. Sch. Sci., Kyushu Univ.)</p>
14:30	<p>3pA05 </p> <p>KNO1-mediated autophagic degradation of the Bloom component RMI1 promotes homologous recombination <u>Povu Chen</u>¹, Masaki Ito¹, Arp Schnittger² (¹School of Biological Science and Technology, College of Science and Engineering, Kanazawa University, ²Department of Developmental Biology, University of Hamburg)</p>	<p>3pB05 </p> <p>The involvement of GLYCEROPHOSPHODIESTER PHOSPHODIESTERASE6 in root growth of Arabidopsis in P starvation <u>Hai Anh Ngo</u>^{1,3}, Yuki Nakamura^{1,2,3} (¹RIKEN Center for Sustainable Resource Science (CSRS), Yokohama 230-0045, Japan, ²Graduate School of Science, The University of Tokyo, Tokyo 113-8654, Japan, ³Institute of Plant and Microbial Biology, Academia Sinica, Taipei 11529, Taiwan)</p>	<p>3pC05</p> <p>ROS produced very early stages of tissue reunion process of <i>Arabidopsis</i> incised stem contributes to cambium formation by control of ANAC096 <u>Yusuke Ohba</u>¹, Jiuyi Li¹, Tatsuya Yamazaki¹, Keita Matsuoka², Masashi Asahina^{2,3}, Kazuyuki Kuchitsu⁴, Shinobu Satoh⁵, Hiroaki Iwai⁵ (¹Gard. Sch. Sci. and Tech., Univ. Tsukuba, ²Dept. Biosci., Teikyo Univ., ³Adv. Inst. anal. Ctr., Teikyo Univ., ⁴Dept. appl. Bio. Sci., Tokyo Univ. Sci., ⁵Fac. Life and Env. Sci., Univ. Tsukuba)</p>	<p>3pD05</p> <p>WDR promotes blue light-dependent stomatal opening via starch degradation in guard cells <u>Shota Yamauchi</u>¹, Naoyuki Sugiyama², Yutaka Kodama³, Luca Distefano⁴, Mika Nomoto⁵, Yasuomi Tada⁶, Diana Santelia⁴, Ken-ichiro Shimazaki⁶, Atsushi Takemiya¹ (¹Grad. Sch. Sci. Tech. Innov., Yamaguchi Univ., ²Grad. Sch. Pharm. Sci., Kyoto Univ., ³Center for Bioscience Research and Education, Utsunomiya Univ., ⁴Institute of Integrative Biology, ETH Zürich, ⁵Center for Gene Research, Nagoya Univ., ⁶Faculty of Science, Kyushu Univ.)</p>

Room E	Room F	Room G	Room H	Room I	Room X	Room Y	Room Z	Time	
Plant hormones/ Signaling molecules	Environmental response B/ Environmental stresses	Flowering/Clock	Plant-organism interaction B						
<p>3pE01 Isolation and characterization of a novel ABC-type transporter gene possibly involved in cytokinin export <u>Takuya Uragami</u>, Takatoshi Kiba, Hitoshi Sakakibara (Grad. Sch. Bio. Sci., Nagoya Univ)</p>	<p>3pF01 Functional analysis of novel membrane proteins mediating dehydration stress response <u>Haruka Otani</u>¹, Wakana Inoue¹, Takehiro Suzuki², Naoshi Dohmae², Fuminori Takahashi¹ (¹TUS, Fac. Adv. Eng., ²RIKEN, CSRS)</p>	<p>3pG01 Identification of DVRs: small compounds inducing the devernalization under light condition in <i>Arabidopsis thaliana</i> <u>Nana Otsuka</u>¹, Masaya Fukuchi¹, Hikaru Sawa¹, Ayato Sato², Makoto Shirakawa¹, Toshiro Ito¹ (¹Grad. Sch. Sci and Tech., NAIST, ²WPI-ITbM, Nagoya Univ.)</p>	<p>3pH01 Physiological Role of Secreted Peroxidases and Apoplastic Naphthoquinones in <i>Lithospermum erythrorhizon</i> <u>Takuji Ichino</u>¹, Ken Yokawa², Kanade Tatsumi¹, Kei Hiruma^{3,4}, Masaru Nakayasu¹, Kyoko Takamatsu¹, Eiko Mori-yoshi¹, Yuka Munakata¹, Akifumi Sugiyama¹, Takahito Watanabe¹, Koichiro Shimomura⁵, Takashi Watanabe¹, Kazufumi Yazaki¹ (¹RISH, Kyoto Univ., ²Fac. Eng., Kitami Inst. Tech., ³Grad. Sch. Arts and Sci., Univ. Tokyo, ⁴Grad. Sch. Sci. and Tech., NAIST, ⁵Grad. Sch. Life Sci., Toyo Univ.)</p>		Symposium S09 A frontier in plant sensing and receptor research (13:30-16:30)			13:30	
<p>3pE02 A cell wall-localized cytokinin/purine riboside nucleosidase is involved in apoplastic cytokinin metabolism in <i>Oryza sativa</i> <u>Mikiko Kojima</u>^{1,2}, Nobue Makita¹, Miwa Ohashi², Alicia Surjana², Toru Kudo¹, Noriko Takeda-Kamiya¹, Kiminori Toyooka¹, Akio Miyao^{3,5}, Hirohiko Hirochika³, Tsuyu Ando^{4,5}, Ayahiko Shomura^{4,5}, Masahiro Yano^{3,5}, Toshio Yamamoto^{3,5,6}, Tokunori Hobo⁷, Hitoshi Sakakibara^{1,2} (¹CSRS., RIKEN, ²Grad. Sch. Bioagri. Sci., Nagoya Univ., ³NIAS, ⁴STAFF Inst., ⁵NARO, ⁶IPSR., Okayama Univ., ⁷NUBBC)</p>	<p>3pF02 Functional analysis of the interacting proteins of transcription factor mediating drought stress responses <u>Junki Maeya</u>, Takeru Nakayama, Fuminori Takahashi (TUS, Fac. Adv. Eng.)</p>	<p>3pG02 Role of plasmodesmata in the symplastic FT transport <u>Yusuke Murata</u>, Mitsutomo Abe (Grad. Sch. Arts and Sci., Univ. Tokyo)</p>	<p>3pH02 Identification And Functional Analysis Of Isoflavone Metabolic Genes In Soybean Rhizosphere <u>Noritaka Aoki</u>¹, Tomohisa Shimasaki^{1,2}, Wataru Yazaki¹, Masaru Nakayasu¹, Akinori Ando³, Shigenobu Kishino³, Jun Ogawa³, Sachiko Masuda⁴, Arisa Shibata⁴, Wataru Suda⁴, Ken Shirasu⁴, Kazufumi Yazaki¹, Akifumi Sugiyama¹ (¹RISH, Kyoto Univ., ²RIKEN BRC, ³Grad. Sch. of Agri. Kyoto Univ., ⁴RIKEN CSRS, ⁵RIKEN IMS)</p>						13:45
<p>3pE03 Elucidation of the physiological roles of the shoot-derived isopentenyl adenine-type cytokinin <u>Kota Monden</u>¹, Mikiko Kojima², Yumiko Takebayashi², Takamasa Suzuki³, Daisuke Sugiura⁴, Tsuyoshi Nakagawa⁵, Hitoshi Sakakibara^{2,4}, Takushi Hachiya⁴ (¹Gra. Sch. Nat. Sci., Shimane Univ., ²CSRS, Riken, ³Gra. Sch. Biosci. Biotech., Chubu Univ., ⁴Gra. Sch. Bioagr. Sci., Nagoya Univ., ⁵Dept. Mol. Genet., Int. Cent. Sci. Res., Shimane Univ.)</p>	<p>3pF03 E Stress-Induced Dynamic Changes In The Subcellular Localization Of β-Glucosidase Involved In ABA Production <u>Yutong Song</u>, Tayebbeh Abedi, Hiroshi Shimada, Atsushi Sakamoto (Grad. Sch. Integr. Sci. Life, Hiroshima Univ.)</p>	<p>3pG03 Regulatory mechanism of the condensate formation induced by liquid-liquid phase separation of florigen activation complex <u>Mayu Enomoto</u>¹, Suai Anzawa¹, Yuka Koizumi¹, Kyoko Furuita², Ken-ichiro Taoka^{3,4}, Keiji Nishida⁴, Akihiko Kondo⁴, Takashi Kodama², Toshimichi Fujiwara², Hiroyuki Tsuji^{3,5}, Chojiro Kojima^{1,2} (¹Grad. Sch. of Engr. Sci., YNU, ²IPR, Univ. Osaka, ³KIBR, YCU, ⁴Engineering Biology Research Center., Univ. Kobe, ⁵BBC, Univ. Nagoya)</p>	<p>3pH03 Effect of plant-soil feedbacks under drought on drought tolerance of succeeding soybean plants <u>Yushiro Fujii</u>¹, Megumi Narukawa², Mai Tsuda³, Yasunori Ichihashi², Ryosuke Sasaki¹, Kengo Sakurai⁴, Hirokazu Takahashi⁵, Hideki Takanashi⁴, Akito Kaga⁶, Hisashi Tsujimoto⁷, Mikio Nakazono⁵, Toru Fujiwara⁴, Hiroyoshi Iwata⁴, Masami Yokota Hirai^{1,5} (¹RIKEN · CSRS, ²RIKEN BRC, ³T-PIRC, Univ. Tsukuba, ⁴Grad. Sch. Agr. Life Sci., Univ. Tokyo, ⁵Grad. Sch. Bioagric. Sci., Nagoya Univ., ⁶Inst. Crop Sci., NARO, ⁷Arid Land Res. Ctr., Tottori Univ.)</p>						14:00
<p>3pE04 [Cancelled]</p>	<p>3pF04 Phosphoproteomic Analysis of SnRK2 Substrates in Arabidopsis Guard Cells <u>Kota Yamashita</u>¹, Mizuki Saigusa¹, Shota Yamauchi², Atsushi Takemiya², Taishi Umezawa¹ (¹BASE, Tokyo Univ. Agric. Tech., ²Yamaguchi Univ.)</p>	<p>3pG04 Photoperiod-Dependent Chromatin Dynamics in the Locus of <i>MpBONOBO</i>, a Regulator Gene for Germ Cell Differentiation in the Bryophyte <i>Marchantia polymorpha</i> <u>Kenta Tanaka</u>, Yoshihiro Yoshitake, Tomoaki Kajiwara, Haonan Bao, Yukiko Yasui, Shohei Yamaoka, Takayuki Kohechi (Grad. Sch. Biostudies, Kyoto Univ.)</p>	<p>3pH04 E Evolutionary insights into the interaction between tobacco roots and <i>Arthrobacter</i> mediated by nicotine-degradation gene cluster <u>Tomohisa Shimasaki</u>¹, Sachiko Masuda², Arisa Shibata², Wataru Suda³, Ken Shirasu², Yasunori Ichihashi¹, Kazufumi Yazaki⁴, Akifumi Sugiyama⁴, Ryohsei Thomas Nakano⁵ (¹RIKEN · BRC, ²RIKEN · CSRS, ³RIKEN · IMS, ⁴RISH, Kyoto Univ., ⁵MPIPZ)</p>						14:15
<p>3pE05 Cytokinins contribute prehaustorium induction in the parasitic plant <i>Striga hermonthica</i> <u>Natsumi Aoki</u>¹, Songkui Cui^{1,2}, Satoko Yoshida¹ (¹NAIST, ²Kunming Institute of Botany)</p>	<p>3pF05 Strategies for resistance to long-term drought stress conditions mediated by SNS1 <u>Sotaro Katagiri</u>¹, Yoshiaki Kamiyama¹, Toshinori Kinoshita², Taishi Umezawa¹ (¹Tokyo Univ. of Agric. and Thee., ²Nagoya Univ.)</p>	<p>3pG05 Analysis of genes involving photoperiod-dependent dormancy induction and turion development in <i>Lenna turionifera</i> <u>Shogo Ito</u>, Tokitaka Oyama (Department of Botany, Division of Biological Sciences, Graduate School of Science, Kyoto University)</p>	<p>3pH05 Plant growth alteration by bacterial volatile organic compounds <u>Jun Murata</u>, Takehiro Watanabe, Hajime Komura (Suntory Foundation for Life Sciences)</p>						14:30

● Day 3, Fri., March 17, PM (13:30–16:30)

Time	Room A	Room B	Room C	Room D
	Cell cycle/Cell division	Primary metabolism	Cell wall	Photoreceptors/Photoresponses
14:45	<p>3pA06 The localization of chromosomal passenger complex is defined by molecular convergence Shinichiro Komaki¹, Elco C Tromer², Geert De Jaeger³, Nancy De Winne³, Maren Heese⁴, Arp Schnittger⁴ (¹Grad. Sch. Biol. Sci., NAIST, ²Univ. Groningen, ³Univ. Ghent, ⁴Univ. Hamburg)</p>	<p>3pB06 E A pair of phosphoinositide-binding proteins modulates plant growth and trichome development through the transcriptional regulation of <i>GLABRA1</i> in <i>Arabidopsis thaliana</i> Chao-Yuan Yu^{1,2}, Oshin Sharma^{2,3,4}, Yuki Nakamura¹, Kazue Kanehara^{2,5} (¹Center for Sustainable Resource Science, RIKEN, Yokohama, Japan, ²Institute of Plant and Microbial Biology, Academia Sinica, Taipei, Taiwan, ³Molecular and Biological Agricultural Sciences Program, Taiwan International Graduate Program, National Chung-Hsing University and Academia Sinica, Taipei, Taiwan, ⁴Graduate Institute of Biotechnology, National Chung-Hsing University, Taichung, Taiwan, ⁵Biotechnology Center, National Chung-Hsing University, Taichung, Taiwan)</p>	<p>3pC06 E Understanding the role of <i>de novo</i> tracheary elements in <i>Nicotiana</i> interfamily grafting Chaokun Huang¹, Ken-ichi Kurotani², Ryo Tabata¹, Nobutaka Mitsuda³, Ryohei Sugita^{4,5}, Keitaro Tanoi⁴, Michitaka Notaguchi^{1,2,6} (¹Grad. Sch. Bioagri., Univ. Nagoya, ²Bioscience and Biotechnology Center, Univ. Nagoya, ³Bioproduction Research Institute, AIST, ⁴Grad. Sch. Agricultural and Life Sciences., Univ. Tokyo, ⁵Radioisotope Research Center, Univ. Nagoya, ⁶ITBM, Univ. Nagoya)</p>	<p>3pD06 Analyses of plasma membrane H⁺-ATPase regulation in stomatal guard cells Yuki Hayashi¹, Kohei Fukatsu¹, Koji Takahashi¹, Satoru N. Kinoshita¹, Kyohei Kato¹, Keiko Kuwata², Takamasa Suzuki³, Toshinori Kinoshita^{1,2} (¹Grad. Sch. Sci., Nagoya Univ., ²WPI-ITbM, Nagoya Univ., ³Dept. Bio. Chem., Chubu Univ.)</p>
15:00	<p>3pA07 The function of Kinesin-14 family proteins of <i>Arabidopsis thaliana</i> is regulated by phosphorylation Michiko Sasabe¹, Yudai Mikami¹, Masanobu Tomita¹, Yoshiki Yamaji¹, Takahiro Hamada², Hirofumi Nakagami³, Takashi Hashimoto⁴, Yasunori Machida⁵ (¹Facul. of Agri. & Life Sci., Hirotsaki Univ., ²Facul. of Sci., Okayama Univ. of Sci., ³Max Planck Institute for Plant Breeding Research, ⁴Grad. Sch. Biol. Sci., NAIST, ⁵Grad. Sch. of Sci., Nagoya Univ.)</p>	<p>3pB07 E A lipidomic landscape of circadian rhythm in <i>Arabidopsis thaliana</i> Artik Elisa Angkawijaya^{1,2}, Van Cam Nguyen^{1,2}, Katharina Gutbrod³, Helga Peisker³, Peter Dörmann³, Yuki Nakamura^{1,2} (¹Center for Sustainable Resource Science, RIKEN, Yokohama, 230-0045 Japan, ²Institute of Plant and Microbial Biology, Academia Sinica, 128 sec.2 Academia Rd., Nankang, Taipei 11529, Taiwan, ³Institute of Molecular Physiology and Biotechnology of Plants, University of Bonn, D-53115 Bonn, Germany)</p>	<p>3pC07 E Chemical screening to identify graft promoting molecules in Fabaceae Qianqian Luo¹, Xueyao Shu¹, Ayato Sato², Yaichi Kawakatsu³, Ryoko Morinobe¹, Lalita Jantean¹, Hejin Son¹, Ken-ichi Kurotani³, Michitaka Notaguchi^{1,3} (¹Grad. Sch. Bioagri. Sci., Univ. Nagoya, ²Institute of ITbM, Univ. Nagoya, ³Biosci & Biotech Center., Univ. Nagoya)</p>	<p>3pD07 Characterization and molecular improvement of isothiocyanate-based inhibitors on stomatal opening Yusuke Aihara^{1,2}, Bumpei Maeda³, Kanna Goto³, Mika Nomoto^{4,5}, Koji Takahashi⁴, Shigeo Toh^{4,6}, Wenxiu Ye^{4,7}, Yosuke Toda^{1,8}, Yasumi Tada^{4,5}, Ayato Sato¹, Kenichiro Itami^{1,4}, Kei Murakami^{1,3}, Toshinori Kinoshita^{1,4} (¹ITbM, Nagoya Univ., ²PRESTO, JST, ³Grad. Sch. Sci. Tech., Kwansai Gakuin Univ., ⁴Grad. Sch. Sci., Nagoya Univ., ⁵Cent. Gene Res., Nagoya Univ., ⁶Grad. Sch. Agr., Meijo Univ., ⁷Inst. Adv. Agri. Sci., Peking Univ., ⁸Phytometrics Co., Ltd.)</p>
15:15		<p>3pB08 Identification of GIPC sphingolipid phospholipases in <i>Arabidopsis</i> Sho Sanada¹, Rumana Yesmin Hasi², Tamotsu Tanaka², Hiroyuki Imai³, Masatoshi Yamaguchi¹, Maki Kawai-Yamada¹, Toshiki Ishikawa¹ (¹Grad. Sch. Sci. Eng., Saitama Univ., ²Fac. Biosci. Biotech., Tokushima Univ., ³Grad. Sch. Nat. Sci., Konan Univ.)</p>	<p>3pC08 A cell wall-modifying gene-dependent CLE peptide transport in conferring drought resistance Satoshi Endo, Hiroo Fukuda (Fac. Bioenviron. Sci., Kyoto Univ. Adv. Sci.)</p>	<p>3pD08 Analysis of blue light-induced phosphorylated/dephosphorylated proteins in guard cells Kohei Fukatsu¹, Yuki Hayashi¹, Takamasa Suzuki², Keiko Kuwata³, Toshinori Kinoshita^{1,2} (¹Grad. Sch. Sci., Nagoya Univ., ²Dep. Biol. Chem., Chubu Univ., ³ITbM, Nagoya Univ.)</p>
15:30		<p>3pB09 Acylation of Plastoquinone is a Novel Neutral Lipid Accumulated in Cyanobacteria Toshiki Ishikawa¹, Shunya Takano¹, Riko Tanikawa², Takashi Fujihara³, Kimie Atsuzawa³, Yasuko Kaneko¹, Yukako Hihara¹ (¹Grad. Sch. Sci. Eng., Saitama Univ., ²Fac. Sci., Saitama Univ., ³Comp. Anal. Cent. Sci., Saitama Univ.)</p>	<p>3pC09 E Ubiquitination-mediated xylem vessel element formation in response to pathogen in plants Ya Ma¹, Rune Kurokawa¹, Ryosuke Sano², Kei Hiruma³, Taku Demura², Misato Ohtani^{1,2} (¹Grad. Sch. Front. Sci., Univ. Tokyo, ²INST. Div Biol Sci., NAIST, ³Grad. Sch. Art Sci., Univ. Tokyo)</p>	<p>3pD09 Analysis of plasma membrane H⁺-ATPase phosphorylation and stomatal opening using protein kinase inhibitors Shogo Kuwawama¹, Koji Takahashi¹, Maki Hayashi^{1,2}, Ayato Sato³, Toshinori Kinoshita^{1,3} (¹Grad. Sch. Sci., Nagoya Univ., ²Dep. Biol. Chem., Chubu Univ., ³ITbM)</p>
15:45		<p>3pB10 Isolation and characterization of <i>achs4</i>, an <i>Arabidopsis</i> mutant with achlorophyllous stomata Boseok Song, Sho Yamagaki, Tomoki Obata, Sakura Nishimura, Reona Okuma, Koh Iba, Juntaro Negi (Kyushu University, Japan)</p>	<p>3pC10 Identification of the enzyme producing reactive oxygen species in boron-deprived <i>Arabidopsis</i> roots Mako Sawada, Daisuke Umeki, Kentarō Ifuku, Masaru Kobayashi (Grad. Sch. Agr., Kyoto Univ.)</p>	<p>3pD10 Regulation of stomatal movement and plasma membrane H⁺-ATPase by PP2C.Ds Daichi Kinoshita¹, Miya Mizutani-Aihara^{1,2}, Taku Sakakibara¹, Kosuke Murakami¹, Akinori Tange¹, Eigo Ando³, Toshinori Kinoshita^{1,2} (¹Div. Biol. Sci., Grad. Sch. Sci., Nagoya Univ., ²ITbM, Nagoya Univ., ³Dep. Biol. Sci., Sch. Sci., Univ. Tokyo)</p>
16:00		<p>3pB11 PECT1, a rate-limiting enzyme in phosphatidylethanolamine biosynthesis, is involved in the regulation of stomatal movement in <i>Arabidopsis</i> Juntaro Negi¹, Tomoki Obata¹, Sakura Nishimura¹, Boseok Song¹, Sho Yamagaki¹, Natsumi Hoshino², Kohei Fukatsu³, Toshinori Kinoshita^{3,4}, Ikuo Nishida², Koh Iba¹ (¹Dept. Biol., Fac. Sci., Kyushu Univ., ²Grad. Sch. Sci. Eng., Saitama Univ., ³Grad. Sch. Sci., Nagoya Univ., ⁴WPI-ITbM, Nagoya Univ.)</p>		

Room E	Room F	Room G	Room H	Room I	Room X	Room Y	Room Z	Time	
Plant hormones/ Signaling molecules	Environmental response B/ Environmental stresses	Flowering/Clock	Plant-organism interaction B						
<p>3pE06 Genome-Wide Association Study of a Fairy Chemical AOH (2-aza-8-oxohypoxanthine) Response in Rice Core Collections <u>Junji Shinada</u>¹, Jing Wu^{2,3}, Hirokazu Kawagishi^{2,3}, Hiroto Yamashita², Takashi Ikka^{2,4} (1Graduate School of Agriculture, Shizuoka University, 2Faculty of Agriculture, Shizuoka University, 3Research Institute for Mushroom Science, Shizuoka University, 4Research Institute of Green Science and Technology, Shizuoka University)</p>	<p>3pF06 Arabidopsis group B1 Raf-like protein kinases are dephosphorylated in an osmotic stress-dependent manner <u>Yoshiaki Kamiyama</u>, Sotaro Katagiri, Kota Yamashita, Yangdan Li, Taishi Umezawa (BASE, Tokyo Univ. Agric. Tech.)</p>		<p>3pH06 Identification of a volatile diglycosylation enzyme to reinforce herbivory defense in tomato species <u>Eiichiro Ono</u>¹, Koichi Sugimoto², Kenji Matsui³, Hiroshi Ezura², Toshiyuki Ohnishi⁴, Junji Takabayashi⁵ (1Res. Inst., Suntory Global Innovation Center Ltd., 2T-PIRC., Tsukuba Univ., 3Facul. Agric., Yamaguchi Univ., 4RIGST, Shizuoka Univ., 5CER., Kyoto Univ.)</p>		Symposium S09 A frontier in plant sensing and receptor research (13:30–16:30)			14:45	
<p>3pE07 Functional characterization of novel compounds that affect signaling pathway in stomatal opening <u>Kwang-chul Shin</u>¹, Yusuke Aihara¹, Shigeo Toh², Ayato Sato³, Toshinori Kinoshita^{1,3} (1Grad. Sch. Sci., Nagoya Univ., 2Dept. Agr. Resour. Sch., Meijo Univ., 3WPI-ITbM, Nagoya Univ.)</p>	<p>3pF07 MBD10 is involved in leaf senescence in the Arabidopsis ABA response <u>Yangdan Li</u>¹, Fuko Minegishi¹, Yuki Tamura¹, Yoshiaki Kamiyama¹, Kota Yamashita¹, Sotaro Katagiri¹, Naoto Kawakami², Taishi Umezawa¹ (1Tokyo Univ. Agric. Tech., BASE, 2Meiji Univ., Grad. Sch. Agric.)</p>		<p>3pH07 Search for regulatory factors of plasmodesmata formation at the parasitic interface between <i>Cuscuta campestris</i> and <i>Arabidopsis thaliana</i> <u>Mizuki Ogura</u>, Koh Aoki (Grad. Sch. Agric., Osaka Metro. Univ.)</p>						15:00
<p>3pE08 <i>BSH2</i> Is a Novel Gene Involved In Promotion of Plant Growth and Drought Stress Resistance via Brassinosteroid Signaling <u>Rina Su</u>¹, Ayumi Yamagami¹, Tomoko Miyaji², Nobutaka Mitsuda³, Masaaki Sakuta⁴, Tadao Asami⁴, Kazuo Shinozaki², Takeshi Nakano¹ (1Kyoto Univ., 2RIKEN · CSRS, 3AIST, 4Ochanomizu Univ., 5Tokyo Univ.)</p>	<p>3pF08 Genetic Analyses Of <i>acquired osmotolerance-defective 12 (aad12)</i> Mutant Isolated From An Osmotolerant <i>A. thaliana</i> Accession <u>Koya Kobayashi</u>¹, Keisuke Tanaka², Izumi Yotsui¹, Yoichi Sakata¹, Teruaki Taji¹ (1Dept. of Biosci., Tokyo Univ. of Agri, 2Nodai Genome Cent., Tokyo Univ. of Agri.)</p>		<p>3pH08 Regulation of mRNA transport system between parasitic plant, <i>Cuscuta campestris</i>, and host plant <u>Aine Taeko Yabusako</u>, Koh Aoki (Grad. Sch. Agric., Osaka Metro. Univ.)</p>						15:15
<p>3pE09 A novel protein BIL8 positively regulates plant growth via brassinosteroid signaling <u>Zhana Chagan</u>¹, Ayumi Yamagami¹, Genki Nakata², Minami Matsui³, Tetsuo Kushiro², Tadao Asami⁴, Takeshi Nakano¹ (1Grad. Sch. Bios., Kyoto Univ., 2Grad. Sch. Agri., Meiji Univ., 3RIKEN, 4Grad. Sch. Agri. Life Sci., Univ. Tokyo)</p>	<p>3pF09 Loss of <i>SABRE</i> Gene Caused Detrimental Autoimmunity and Reduced Osmotic Tolerance in <i>Arabidopsis</i> <u>Yako Takahashi</u>¹, Hirotaka Ariga², Kohji Nishimura³, Keisuke Tanaka³, Izumi Yotsui¹, Yoichi Sakata¹, Teruaki Taji¹ (1Dept. of Biosci., Tokyo Univ. of Agri., 2Res. Cent. of Gen. Res., NARO, 3Dept. Life sci., Shimane Univ., 4Nodai Genome Cent., Tokyo Univ. of Agri.)</p>		<p>3pH09 E Host salt supply causes decreased growth in the facultative root hemiparasite <i>Phtheirospermum japonicum</i> attached to <i>Arabidopsis thaliana</i> <u>Clarissa Frances Frederica</u>¹, Louis Irving² (1Grad. Sch. Sci. Tech., Univ. of Tsukuba, 2Fac. Life Environ. Sci., Univ. of Tsukuba)</p>						15:30
<p>3pE10 Role Of Brassinosteroid Biosynthesis Regulation In Thermoinhibition Of Arabidopsis Seed Germination <u>Natsuki Tachibana</u>¹, Satoko Okada¹, Motoki Yamaguchi¹, Yuri Kanno², Mitsunori Seo², Naoto Kawakami¹ (1Grad. Sch. Agri., Univ. Meiji, 2CSRS, Riken)</p>	<p>3pF10 Dissecting of genetic mechanism in osmotolerance among <i>Arabidopsis thaliana</i> accessions <u>Yusuke Murakoshi</u>¹, Kosuke Banba¹, Hirotaka Ariga², Keisuke Tanaka³, Izumi Yotsui¹, Yoichi Sakata¹, Teruaki Taji¹ (1Dept. of Biosci., Tokyo Univ. of Agri., 2Res. Cent. of Gen. Res., NARO, 3Nodai Genome Cent., Tokyo Univ. of Agri.)</p>		<p>3pH10 E Influence of Light Level and Nutrient Supply to Parasitized and Unparasitized Roots in the Red Clover - <i>Orobancha minor</i> Association <u>Louis Irving</u>, Mao Hattori (Life Env. Sci., Univ. Tsukuba)</p>						15:45
<p>3pE11 Visualization of intracellular calcium signals in Arabidopsis leaves exposed to green leaf volatiles <u>Yuri Aratani</u>, Takuya Uemura, Masatsugu Toyota (Department of Biochemistry and Molecular Biology Saitama University)</p>	<p>3pF11 Dissecting Mechanisms Underlying Loss of Acquired Tolerance in <i>Arabidopsis thaliana</i> Wt-1 <u>Takahiro Hirano</u>¹, Hirotaka Ariga², Izumi Yotsui¹, Yoichi Sakata¹, Teruaki Taji¹ (1Dept. of Biosci., Tokyo Univ. of Agri., 2Res. Cent. of Gen. Res., NARO)</p>								16:00

● Day 3, Fri., March 17, PM (13:30–16:30)

Time	Room A	Room B	Room C	Room D
	Cell cycle/Cell division	Primary metabolism	Cell wall	Photoreceptors/Photoresponses
16:15				

Room E	Room F	Room G	Room H	Room I	Room X	Room Y	Room Z	Time
Plant hormones/ Signaling molecules	Environmental response B/ Environmental stresses	Flowering/Clock	Plant-organism interaction B					
<p>3pE12 Screening of Volatile Infochemicals Evoking Transient Increase of Cytosolic [Ca²⁺] by Using Arabidopsis Overexpressing GCaMP3 Yasuo Yamauchi¹, Ryuya Sakamoto¹, Masatsugu Toyota², Junji Takabayashi³, Masaharu Mizutani¹, Yukihiko Sugimoto¹ (1Grad. Sch. Agr., Kobe Univ., 2Grad. Sch. Sci. Eng., Saitama Univ., 3CER., Kyoto Univ.)</p>	<p>3pF12 Nuclear Pore Complexes Play an Important Role in Plant Osmotic Tolerance Through the Transport of Immune Response-related Factors Kento Mori¹, Masashi Tamura¹, Kohji Nishimura², Hirota Ariga³, Keisuke Tanaka⁴, Izumi Yotsui¹, Yoichi Sakata¹, Teruaki Taji¹ (1Dept. of Biosci., Tokyo Univ. of Agri., 2Dept. Life Sci., Shimane Univ., 3Res. Cent. of Gen. Res., NARO, 4Nodai Genome Cent., Tokyo Univ. of Agri.)</p>				Symposium S09 A frontier in plant sensing and receptor research (13:30-16:30)			16:15

List of Chairpersons of Oral Presentations

Day 1, Wed., March 15, AM

1aA01-1aA12	Photosynthesis	Ritsuko Fujii Shinji Masuda Yutaka Shibata
1aB01-1aB11	Membrane trafficking	Emi Ito Junpei Takano Naoki Minamino
1aC01-1aC10	Genome function/gene regulation	Taiji Kawakatsu Takashi Hirayama Yosuke Tamada
1aD01-1aD10	Environmental response A/Physiological responses	Hiroshi Kudoh Takatoshi Kiba Kohki Yoshimoto
1aE01-1aE12	Plant hormones/Signaling molecules	Minoru Ueda Hidefumi Shinohara Mari Ogawa-Ohnishi
1aF01-1aF12	Environmental response B/Environmental stresses	Mie Shimojima Shoko Tsuboyama Takahiro Ishikawa
1aG01-1aG12	Development/Morphogenesis	Makoto Shirakawa Hikari Matsumoto Takeshi Kuroha
1aH01-1aH07	Photoreceptors/Photoresponses	Youichi Kondou Mayu Nakagawa
1aI01-1aI09	Systems biology	Yasunori Ichihashi Tomoaki Nishiyama Miyuki Nakata

Day 1, Wed., March 15, PM

1pA01-1pA12	Photosynthesis	Hiroko Takahashi Yuki Kato Haruhiko Jimbo
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1pB01-1pB11	Biomembrane/Ion and solute transport	Noriyuki Konishi Takayuki Sasaki Keitaro Tanoi
1pC01-1pC11	Genome function/gene regulation	Toshihiro Arae Mio Shibuta K. Munetaka Sugiyama
1pD01-1pD08	Specialized (secondary) metabolism	Masaaki Sakuta Kai Uchida Toshiyuki Waki
1pE01-1pE12	Reproduction	Katsuyuki T. Yamato Minako Ueda Takashi Okamoto
1pF01-1pF12	Environmental response B/Environmental stresses	Miho Ikeda Genki Horiguchi Katsuhiko Shiono
1pG01-1pG12	Development/Morphogenesis	Akihito Mamiya Yoko Ikeda Ryuji Tsugeki
1pH01-1pH10	Plant-organism interaction B	Hanna Nishida Takuya Suzuki Yasuyuki Kawaharada
1pI01-1pI08	Systems biology	Takeshi Obayashi Yuichi Aoki Nozomu Sakurai
1pY01-1pY11	New technology	Shin-ichi Arimura Yuriko Osakabe Kazuhito Akama

Day 2, Thu., March 16, AM

2aA01-2aA11	Photosynthesis	Hajime Wada Yuu Hirose Iwane Suzuki
2aB01-2aB07	Biomembrane/Ion and solute transport	Naoki Yamaji Takehiro Kamiya

2aC01-2aC12 Organelles/Cytoskeleton
Takema Sasaki
Hiroyasu Motose
Shizuka Koshimizu

2aD01-2aD09 Specialized (secondary) metabolism
Masami Yokota Hirai
Miyako Kusano
Seiji Takahashi

2aE01-2aE12 Reproduction
Erika Toda
Sota Fujii
Sumie Ishiguro

2aF01-2aF12 Environmental response B/Environmental stresses
Nobuyuki Takatani
Yaichi Kawakatsu
Satoshi Kidokoro

2aG01-2aG12 Development/Morphogenesis
Yukiko Yasui
Takaaki Yonekura
Yuuki Sakai

2aH01-2aH12 Plant-organism interaction A
Shigetaka Yasuda
Koichi Sugimoto
Kohji Yamada

2aI01-2aI07 New technology
Kaori Kohzuma
Akira Nozawa
Kazuya Ishikawa

Day 3, Fri., March 17, AM

3aA01-3aA12 Photosynthesis
Shinya Wada
Yuki Okegawa
Keisuke Yoshida

3aB01-3aB11 Primary metabolism
Yasuhito Sakuraba
Toshihisa Kotake
Shin-nosuke Hashida

3aC01-3aC12 Organelles/Cytoskeleton
Shohei Nosaki
Mitsumasa Hanaoka
Yuki Sakamoto

3aD01-3aD09 Environmental response A/Physiological responses
Miyo T. Morita
Shoji Segami
Kenji Hashimoto

3aE01-3aE12 Plant hormones/Signaling molecules
Naoyuki Uchida
Shinjiro Yamaguchi
Kiyoshi Mashiguchi

3aF01-3aF12 Environmental response B/Environmental stresses
Daisuke Todaka
Teruaki Taji
Shigeru Hanamata

3aG01-3aG12 Development/Morphogenesis
Mimi Hashimoto-Sugimoto
Tatsuaki Goh
Keita Tanaka

3aH01-3aH07 Plant-organism interaction B
Kana Miyata
Rikako Hirata
Momoko Takagi

Day 3, Fri., March 17, PM

3pA01-3pA07 Cell cycle/Cell division
Takashi Ishida
Kaoru Yoshiyama
Michiko Sasabe

3pB01-3pB11 Primary metabolism
Toshiki Ishikawa
Juntaro Negi
Yuki Nakamura

3pC01-3pC10 Cell wall
Michitaka Notaguchi
Kazuyuki Kuchitsu
Satoshi Endo

3pD01-3pD10 Photoreceptors/Photoresponses
Shota Yamauchi
Eigo Ando
Kosei Iwabuchi

3pE01-3pE12 Plant hormones/Signaling molecules
Hitoshi Sakakibara
Mikiko Kojima
Naoto Kawakami

3pF01-3pF12 Environmental response B/Environmental stresses
Izumi Yotsui
Fuminori Takahashi
Hiroshi Shimada

3pG01-3pG05 Flowering/Clock
Akane Kubota

3pH01-3pH10 Plant-organism interaction B
Takuji Ichino
Yushiro Fuji
Jun Murata