

# 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

- 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, Sun., March 17, AM (9:30–12:30)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Environmental response / Physiological responses	Organelles/Cytoskeleton	New technology
09:30	<p>1aA01 Isolation and chemical identification of triacylglycerol in cyanobacteria: culture condition of its accumulation Naoki Sato<sup>1</sup>, Haruhiko Jimbo<sup>1</sup>, Toru Yoshitomi<sup>2</sup>, Kouji Takano<sup>3</sup>, Yozo Okazaki<sup>3,4</sup>, Tsubasa Shoji<sup>3,5</sup>, Kazuki Saito<sup>3</sup>, Hajime Wada<sup>1</sup> (1Univ. of Tokyo, 2National Institute for Materials Science, 3RIKEN, CSRS, 4Mie Univ., 5Toyama Univ.)</p>	<p>1aB01 Physiological analysis of the role of actin polymerization and depolymerization on root hydrotropism in <i>Arabidopsis thaliana</i> Kotaro Akita<sup>1</sup>, Yutaka Miyazawa<sup>2</sup> (1Grad. Sch. Sci and Eng., Yamagata Univ., 2Fac. Sci., Yamagata Univ)</p>	<p>1aC01 Comparative mitochondrial proteomics of thermogenic male cones from the gymnosperm cypress, <i>Cycas revoluta</i> Fumika Matsuoka<sup>1</sup>, Momoka Hisamatsu<sup>1</sup>, Minami Motogi<sup>1</sup>, Toui Mizuno<sup>1</sup>, Mitsuhiro Sato<sup>2</sup>, Takehito Inaba<sup>1</sup>, Yasuko Inaba<sup>1,3</sup> (1Fac. Agr., Univ. Miyazaki, 2Kazusa DNA Res. Inst., 3Grad. Sch. Life Sci., Tohoku Univ.)</p>	<p>1aD01 Modulation of plasma membrane H<sup>+</sup>-ATPase expression in <i>Arabidopsis thaliana</i> Ming Ding, Satoru Kinoshita, Yuki Hayashi, Toshinori Kinoshita (Grad. Sch. Sci., Nagoya Univ.)</p>
09:45	<p>1aA02 Photosynthetic responses in the high-oil accumulating diatom, <i>Fistulifera solaris</i> Haruka Yamamoto<sup>1</sup>, Ginga Shimakawa<sup>1</sup>, Tsuyoshi Tanaka<sup>2</sup>, Yasuhiko Nishimura<sup>3</sup>, Yusuke Matsuda<sup>1</sup> (1Dept. Biosci., Sch. Sci. Tech., Kwansei Gakuin Univ., 2Inst. Engin. Tokyo Univ. Agricul. Technol., 3Electric Power Development Co., Ltd)</p>	<p>1aB02 <b>E</b> Evaluation of phenotypic diversity and genome-wide association analysis for nitritropism in rice lateral roots Md. Nashir Uddin<sup>1</sup>, Daria Górecka<sup>2</sup>, Aleksandra Zborowska<sup>2</sup>, Kiyoshi Yamazaki<sup>1</sup>, Ohmori Yoshihiro<sup>1</sup>, Toru Fujiwara<sup>1</sup> (1Grad. Sch. Agri. &amp; Life Sci., Tokyo Univ. Yayoi, Bunkyo, Tokyo 113-8657, Japan, 2Fac. Biotech. &amp; Hort., Krakow Agri. Univ., 31-425 Krakow, Poland)</p>	<p>1aC02 Expression, purification and antibody production of plastid signaling factor GUN1 Roselyn May Ching Yeow<sup>1</sup>, Tomohiro Kakizaki<sup>2</sup>, Yasuko Ito-Inaba<sup>1,3</sup>, Takehito Inaba<sup>1</sup> (1Fac. Agr., Univ. Miyazaki, 2NARO-NIVFS, 3Grad. Sch. Life Sci., Tohoku Univ.)</p>	<p>1aD02 Genome Editing in plants with CjCas9 and enCjCas9 derived from <i>Campylobacter jejuni</i> Naoshi Yamanaka<sup>1</sup>, Konoha Shimizu<sup>1</sup>, Miyu Takahashi<sup>1</sup>, Ryoka Sakamoto<sup>1</sup>, Masaki Endo<sup>2</sup>, Ryoya Nakagawa<sup>3</sup>, Kappei Kobayashi<sup>1</sup>, Osamu Nureki<sup>3</sup>, Seiichi Toki<sup>2,4,5,6</sup>, Hidetaka Kaya<sup>1</sup> (1Faculty of Agriculture, Ehime University, 2Plant Genome Engineering Research Unit, NARO, 3Department of Biological Sciences, Graduate School of Science, The University of Tokyo, 4Faculty of Agriculture, Ryukoku University, 5Graduate School of Nanobioscience, Yokohama City University, 6Kihara Institute for Biological Research, Yokohama City University)</p>
10:00	<p>1aA03 The function of pyrenoid <math>\beta</math> carbonic anhydrases in the marine diatom, <i>Phaeodactylum tricornutum</i> Tomoki Yonehara, Nawaly Hermanus, Ginga Shimakawa, Yusuke Matsuda (Dept. Biosci., Sch. Sci. Tech., Kwansei Gakuin Univ.)</p>	<p>1aB03 Genetic framework for growth angle control of lateral branches by <i>TILLER ANGLE CONTROL1</i> in <i>Arabidopsis</i> Nozomi Kawamoto, Takeshi Nishimura, Miyo Terao-Morita (National Institute for Basic Biology)</p>	<p>1aC03 The CRL protein is involved in the TOC75-V/OEP80 complex formation in <i>Arabidopsis</i> Ryo Yoshiomura<sup>1</sup>, Shun Minamikawa<sup>1</sup>, Takamasu Suzuki<sup>2</sup>, Kotarou Goto<sup>1</sup>, David Latrasse<sup>3,4</sup>, Sanchari Sicar<sup>3,4</sup>, Cécile Raynaud<sup>3,4</sup>, Moussa Benhamed<sup>3,4,5</sup>, Yasushi Yoshioka<sup>1</sup> (1Grad. Sch. Sci., Nagoya Univ., 2Coll. Biosci. Biotech., Chubu Univ., 3Inst. Plant Sci. Paris-Saclay, Univ. Paris-Saclay, 4Inst. Plant Sci. Paris-Saclay, Univ. Paris, 5Inst. Univ. France)</p>	<p>1aD03 <b>E</b> Targeted A-to-G Base Editing in the organellar genomes of <i>Arabidopsis thaliana</i> with Monomeric programmable deaminases Chang Zhou<sup>1</sup>, Mirai Okuno<sup>2</sup>, Issei Nakazato<sup>1</sup>, Nobuhiro Tsutsumi<sup>1</sup>, Shin-ichi Arimura<sup>1</sup> (1Laboratory of Plant Molecular Genetics, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Tokyo, 2Division of Microbiology, Department of Infectious Medicine, Kurume University School of Medicine)</p>
10:15	<p>1aA04 Functional analysis of diatom cytoplasm-localized <math>\theta</math>-type carbonic anhydrase Atsuki Ohsawa, Kazuya Nagata, Ginga Shimakawa, Yusuke Matsuda (Dept. Biosci., Sch. Sci. Tech., Kwansei Gakuin Univ.)</p>	<p>1aB04 Calcium wave dynamics in trapping hairs of carnivorous sundew <i>Drosera rotundifolia</i> Shoji Segami<sup>1,2</sup>, Peng Chen<sup>2</sup>, Maki Kondo<sup>1</sup>, Shoko Ohi<sup>1</sup>, Hiraku Suda<sup>3</sup>, Masatsugu Toyota<sup>3</sup>, Mitsuyasu Hasebe<sup>1,2</sup> (1NIBB, 2SOKENDAI, 3Dept. Biochem. Mol. Biol., Saitama Univ.)</p>	<p>1aC04 A mutation of CHLH confers resistance to PPO inhibitors in <i>Marchantia polymorpha</i> Rito Kitaoka<sup>1</sup>, Satoshi Komaki<sup>1</sup>, Yuuki Sakai<sup>1</sup>, Hirokata Kato<sup>1,2</sup>, Yuki Kondo<sup>1</sup>, Hidehiro Fukaki<sup>1</sup>, Kimitsune Ishizaki<sup>1</sup> (1Grad. Sch. Sci., Kobe Univ., 2Grad. Sch. Sci. Eng. Ehime Univ.)</p>	<p>1aD04 Anovel CRISPR-Cas9 system; AalCas9 recognizes the unique PAM sequence and exhibits genome editing activity in plants Reika Hasegawa<sup>1</sup>, Akiyoshi Nakamura<sup>2</sup>, Shigeo S. Sugano<sup>2</sup>, Hiroshi Yamamoto<sup>2</sup>, Tsubasa Yano<sup>1</sup>, Yoichi Makino<sup>3</sup>, Seiichiro Ito<sup>3</sup>, Nobutaka Mitsuda<sup>2</sup>, Teruhiko Terakawa<sup>1</sup> (1Inplanta Innovations Inc., 2AIST-BPRI, 3TOPPAN Inc.)</p>
10:30	<p>1aA05 Functional analysis of TpBST, a candidate thylakoid-type bicarbonate transporter from marine diatom <i>Thalassiosira pseudonana</i> Haruto Yamashita, Minoru Nigishi, Ryosuke Amano, Ginga Shimakawa, Yusuke Matsuda (Dept. Biosci., Sch. Sci. Tech., Kwansei Gakuin Univ.)</p>	<p>1aB05 Mechanism of touch-induced electrical signaling in <i>Dionaea muscipula</i> Hiroki Asakawa<sup>1</sup>, Hiraku Suda<sup>1</sup>, Shoko Ohi<sup>2</sup>, Shoji Segami<sup>2,3</sup>, Mitsuyasu Hasebe<sup>2,3</sup>, Masatsugu Toyota<sup>1,4,5,6</sup> (1Dept. Biochem. Mol. Biol., Saitama Univ., 2Div. Evol. Biol., NIBB, 3Sch. Sci., SOKENDAI, 4SunRISE, Suntory Fdn. Life Sci., 5Dept. Bot., UW-Madison, 6Coll. Plant Sci. Technol., Huazhong Agric. Univ.)</p>	<p>1aC05 Functional relationship between DGDG and SQDG in chloroplast membranes Miho Kuratani<sup>1</sup>, Akiko Yoshihara<sup>2</sup>, Keiko Kobayashi<sup>3</sup>, Noriko Nagata<sup>3</sup>, Koichi Kobayashi<sup>2</sup> (1Sch. Sci., Osaka Pref. Univ., 2Grad. Sch. Sci., Osaka Metro. Univ., 3Fac. Sci., Japan Women's Univ.)</p>	<p>1aD05 Application of multiple sgRNAs boosts efficiency of CRISPR/Cas9-mediated gene targeting in <i>Arabidopsis</i> Daisuke Miki (Chinese Academy of Sciences)</p>



# ● Day 1, Sun., March 17, AM (9:30–12:30)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Environmental response A/ Physiological responses	Organelles/Cytoskeleton	New technology
10:45	1aA06 Mapping of subcellular local pH in the marine diatom <i>Phaeodactylum tricoratum</i> Gingga Shimakawa, Emi Yashiro, Yusuke Matsuda (Kwansei-Gakuin Univ)	1aB06 An <i>Arabidopsis</i> short ORF, <i>LOHNI</i> , is involved in the repression of lateral root formation under high-nitrogen conditions Tomoya Sonoda <sup>1</sup> , Kazuhiro Ito <sup>1</sup> , Chieko Goto <sup>2</sup> , Hidehiro Fukaki <sup>2</sup> , Kousuke Hanada <sup>3</sup> , Koh Iba <sup>1</sup> , Kensuke Kusumi <sup>1</sup> ( <sup>1</sup> Department of Biology, Faculty of Science, Kyushu University, Fukuoka, Japan, <sup>2</sup> Department of Biology, Faculty of Science, Kobe University, Kobe, Japan, <sup>3</sup> Department of Bioscience and Bioinformatics, Kyusyu Institute of Technology, Izuka, Fukuoka, Japan)	1aC06 Elucidation for the molecular mechanism to maintain chloroplast homeostasis by a novel BR signaling factor BPG4 Ryo Tachibana <sup>1</sup> , Susumu Abe <sup>2,3</sup> , Momo Marugami <sup>2,3</sup> , Ayumi Yamagami <sup>1</sup> , Rino Akema <sup>1</sup> , Takao Ohashi <sup>1</sup> , Kaisei Nishida <sup>1</sup> , Shohei Nosaki <sup>4</sup> , Takuya Miyakawa <sup>1</sup> , Masaru Tanokura <sup>5</sup> , Kim Jong-Myong <sup>3,5,6</sup> , Motoaki Seki <sup>3</sup> , Takehito Inaba <sup>7</sup> , Minami Matsui <sup>3</sup> , Kentaro Ifuku <sup>8</sup> , Tetsuo Kushiro <sup>2</sup> , Tadao Asami <sup>5</sup> , Takeshi Nakano <sup>1</sup> ( <sup>1</sup> Grad. Sch. Biostudies., Kyoto Univ., <sup>2</sup> Sch. Agri., Meiji Univ., <sup>3</sup> CSRS, RIKEN, <sup>4</sup> Sch. Life and Environmental Sci., Tsukuba Univ., <sup>5</sup> Grad. Sch. Agri. Life Sci., Univ. Tokyo, <sup>6</sup> Ac-Planta Inc., <sup>7</sup> Dept. Agri. Univ., Miyazaki Univ., <sup>8</sup> Grad. Sch. Agri., Kyoto Univ.)	1aD06 Development Of Transcriptional Regulation Tools For <i>AtNCE3</i> Using CRISPR-Cas Kugo Goto <sup>1</sup> , Satoshi Kidokoro <sup>1</sup> , Keishi Osakabe <sup>2</sup> , Yuriko Osakabe <sup>1</sup> ( <sup>1</sup> Sch. of Life Sci. & Tech., Tokyo Tech., <sup>2</sup> Sch. of Tech., Ind. & Soc. Sci., Tokushima Univ.)
11:00	1aA07 <b>E</b> Excitation Energy Re-Distribution between PSII and PSI in Marine Diatom <i>Chaetoceros gracilis</i> with a Truncated PSI–FCPI Supercomplex Jian Xing, Minoru Kumazawa, Shoko Tsuji, Noriko Ishikawa, Kentaro Ifuku (Grad. Sch. Agri., Kyoto Univ.)	1aB07 Time-course transcriptome analysis of <i>Arabidopsis thaliana</i> leaves under high-concentration ammonium sulfate treatment Hiroko Iwanaga <sup>1</sup> , Yuki Arai <sup>2</sup> , Masayuki Fujiwara <sup>2</sup> , Takushi Hachiya <sup>3</sup> , Takahiro Hamada <sup>1</sup> ( <sup>1</sup> Fac. Life Sci. Okayama Univ. Sci., <sup>2</sup> YANMAR Holdings Co., Ltd., <sup>3</sup> Int. Cent. Sci. Res., Shimane Univ.)	1aC07 Mechanism of greening adaptation of etiolated seedlings by novel dark-induced genes, BGHS Rino Akema <sup>1</sup> , Ryo Tachibana <sup>1</sup> , Ayumi Yamagami <sup>1</sup> , Ryouichi Tanaka <sup>2</sup> , Tadao Asami <sup>3</sup> , Takeshi Nakano <sup>1</sup> ( <sup>1</sup> Grad. Sch. Biostudies., Kyoto Univ., <sup>2</sup> Inst. Low Temperature Science, Hokkaido Univ., <sup>3</sup> Grad. Sch. Agri. Life Sci., Univ. Tokyo)	1aD07 Fluorescein staining of chloroplast starch granules in living plants Shintaro Ichikawa <sup>1,2</sup> , Momoko Sakata <sup>1</sup> , Toru Oba <sup>2,3</sup> , Yutaka Kodama <sup>1,2</sup> ( <sup>1</sup> Ctr. Biosci. Res. Educ., Utsunomiya Univ., <sup>2</sup> Grad. Sch. Reg. Dev. Creat., Utsunomiya Univ., <sup>3</sup> Fac. Eng., Utsunomiya Univ.)
11:15	1aA08 Evolutionary Trajectory of LHCI Proteins in Red-Lineage Algae: Conservation, Diversification, and Neo-Localization Minoru Kumazawa <sup>1</sup> , Ryo Nagao <sup>2</sup> , Atsushi Takabayashi <sup>3</sup> , Kentaro Ifuku <sup>1</sup> ( <sup>1</sup> Grad. Sch. Agri., Kyoto Univ., <sup>2</sup> Fac. Agric., Shizuoka Univ., <sup>3</sup> Inst. Low Temp. Sci., Hokkaido Univ.)	1aB08 Nutrient acquisition in a facultative parasitic plant <i>Phtheirospermum japonicum</i> Yuto Tokumoto <sup>1</sup> , Shoko Inaba <sup>1</sup> , Naoyuki Sotta <sup>2</sup> , Takehiro Kamiya <sup>2</sup> , Junta Yanai <sup>3</sup> , Toru Fujiwara <sup>2</sup> , Satoko Yoshida <sup>1</sup> ( <sup>1</sup> Bio. Sci., NAIST, <sup>2</sup> Grad. Sch. Agr. Life Sci., Univ. Tokyo, <sup>3</sup> Grad. Sch. Life Env. Sci., Univ. Kyoto Pref)	1aC08 CO <sub>2</sub> effect on chloroplast movements in isolated leaf mesophyll cells of <i>Commelina benghalensis</i> and epidermal strips of <i>Marchantia polymorpha</i> Taichi Sugiyama <sup>1,3</sup> , Ichiro Terashima <sup>2,3</sup> ( <sup>1</sup> Bio-Resource, Lab. Chem. Life Sci., T. I. Tech., <sup>2</sup> ISAS, Grad. Sch. Agri. Life Sci., Univ. Tokyo, <sup>3</sup> Plant Eco-Phys. Lab., Biol. Sci., Grad. Sch. Sci., Univ. Tokyo)	1aD08 Establishing of an intracellular temperature imaging method for plants using a fluorescent polymeric thermometer for ratiometric sensing Kai Shibata <sup>1</sup> , Hiroki Maruyama <sup>2</sup> , Teruyuki Hayashi <sup>3</sup> , Seiichi Uchiyama <sup>4</sup> , Toshikazu Tsuji <sup>2</sup> , Noriko Inada <sup>1</sup> ( <sup>1</sup> Grad. Sch. Agri., Osaka Met. Univ., <sup>2</sup> Inst. Kirin Central Res., Kirin HD Co., Ltd, <sup>3</sup> Dept. Nutri., Kohshien Univ., <sup>4</sup> Grad. Sch. Pharma. Sci., Univ. Tokyo)
11:30	1aA09 Excitation-energy quenching with low-energy chlorophylls in photosystem I Seiji Akimoto <sup>1</sup> , Hiroto Matsuzaka <sup>1</sup> , Miyu Furutani <sup>1</sup> , Ryo Nagao <sup>2</sup> , Kyoko Matsunaga <sup>3</sup> , Tatsuya Tomo <sup>4</sup> ( <sup>1</sup> Grad. Sch. Sci., Kobe Univ., <sup>2</sup> Fac. Agric., Shizuoka Univ., <sup>3</sup> Fac. Sci., Tokyo Univ. Sci., <sup>4</sup> Inst. Arts Sci., Tokyo Univ. Sci.)	1aB09 Ammonium in the rhizosphere suppresses the formation of prehaustoria, a host-invading organ of facultative parasitic plant <i>Phtheirospermum japonicum</i> Shoko Inaba, Zhang Xiang, Satoko Yoshida (Biol. Sci., NAIST)	1aC09 <b>E</b> Novel Chloroplast Division Gene, Conserved Across Plant Lineage, Was Discovered Through CRISPR/Cas9 Genetic Screening In Moss <i>Physcomitrium patens</i> Elena Kozunova <sup>1,2</sup> ( <sup>1</sup> Nagoya University, Graduate School of Science, Department of Biological Science, <sup>2</sup> Nagoya University, Institute for Advanced Research)	1aD09 <b>E</b> Development of chemically inducible protein heterodimerization (CID) in the plant: an additional molecular tool to build a synthetic biology platform Jekson Robertlee <sup>1</sup> , Kotaro Nishiyama <sup>1,2</sup> , Yutaro Shimizu <sup>1</sup> , Shinya Hagihara <sup>1</sup> ( <sup>1</sup> RIKEN RIKEN Center for Sustainable Resource Science (CSRS), <sup>2</sup> School of Agriculture, Meiji University)
11:45	1aA10 Green light induced state transitions in the ancestral green alga <i>Ostreococcus tauri</i> Masato Kubota <sup>1</sup> , Eunchul Kim <sup>2</sup> , Asako Ishii <sup>2</sup> , Makiko Kosgi <sup>2</sup> , Jun Minagawa <sup>2</sup> ( <sup>1</sup> Basic Biology, The Graduate University for Advanced Studies, <sup>2</sup> National Institute for Basic Biology)	1aB10 Iron and zinc affect the activity and degradation of rice HRZ ubiquitin ligases Haruka Shinkawa, Akari Murota, Takanori Kobayashi (Res. Inst. Biores. Biotech., Ishikawa Pref. Univ.)	1aC10 Isolation and functional characterization of plastid peptidoglycan biosynthesis genes from the Norway spruce <i>Picea abies</i> Yayoi Sugita <sup>1</sup> , Xiaofei Lin <sup>2</sup> , Katsuaki Takechi <sup>3</sup> , Hiroyoshi Takano <sup>3</sup> ( <sup>1</sup> Grad. Sch. Sci., Univ. Kumamoto, <sup>2</sup> College of Life Sci., Univ. Inner Mongolia, <sup>3</sup> Fac of Adv Sci and Tech., Univ. Kumamoto)	1aD10 iChIP, a screen method to isolate transcriptional complexes on a specific promoter in planta, identified novel regulatory factors of ABA biosynthesis Hikaru Sato <sup>1,2</sup> , Satoru Fujimoto <sup>3</sup> , Miki Fujita <sup>2</sup> , Fuminori Takahashi <sup>2</sup> , Keiko Kuwata <sup>4</sup> , Sachihiko Matsunaga <sup>1,3</sup> , Kazuko Yamaguchi-Shinozaki <sup>3,6</sup> , Kazuo Shinozaki <sup>2</sup> ( <sup>1</sup> Dept. of Integr. Biosci., Univ. Tokyo, <sup>2</sup> RIKEN CSRS, <sup>3</sup> Dept. of Appl. Biol. Sci., Tokyo Univ. of Sci., <sup>4</sup> ITbM, Nagoya Univ., <sup>5</sup> Grad. Sch. Agr. Life Sci., Univ. Tokyo, <sup>6</sup> Res. Inst. Agr. Life Sci., Tokyo Univ. Agr.)

Room E	Room F	Room G	Room H	Room X	Room Y	Room Z	Time
Systems biology	Environmental response B/ Environmental stresses	Primary metabolism	Development/Morphogenesis				
<p><b>1aE06</b> Exploration of transcriptional regulatory mechanism of the DREAM complex from ChIP-Seq and RNA-Seq data <u>Hidekazu Iwakawa</u><sup>1</sup>, Rui Yamamoto<sup>1</sup>, Yuji Nomoto<sup>1</sup>, Takamasa Suzuki<sup>2</sup>, Masaki Ito<sup>1</sup> (<sup>1</sup>Grad. Sch. Nat. Sci. Technol., Kanazawa Univ., <sup>2</sup>Col. Biosci. Biotech., Chubu Univ.)</p>	<p><b>1aF06</b> The analysis of molecular mechanism for salt sensitivity in Arabidopsis induced by a pyrazole synthesized by catalytic aerobic aminoxygenation <u>Minoru Ueda</u><sup>1,2</sup>, Satoshi Takahashi<sup>1,2</sup>, Junko Ishida<sup>1,2</sup>, Ayumi Yamagami<sup>3</sup>, Takeshi Nakano<sup>3</sup>, Florian Pünner<sup>4,5</sup>, Mai Akakabe<sup>4,5</sup>, Yoshihiro Sohtome<sup>4,5</sup>, Mikiko Sodeoka<sup>4,5</sup>, Motoaki Seki<sup>1,2,6,7</sup> (<sup>1</sup>Plant Genomic Network Research Team, RIKEN CSRS, <sup>2</sup>Plant Epigenome Regulation Lab., RIKEN CPR, <sup>3</sup>Grad. Sch. Biostudies, Kyoto Univ., <sup>4</sup>Catalysis and Integrated Research Group, RIKEN CSRS, <sup>5</sup>Synthetic Organic Chemistry Laboratory, RIKEN CPR, <sup>6</sup>KIBR, Yokohama City Univ., <sup>7</sup>Grad. Sch. Sci. Eng., Saitama Univ.)</p>	<p><b>1aG06</b> Analysis of mechanisms underlying the interplay between nitrate and potassium acquisition in Arabidopsis <u>Kosuke Usuda</u>, Yasuhiro Sakuraba, Shuichi Yanagisawa (Agro-Biotech. Res. Center, Grad. Sch. Agri. Life Sci., Univ. Tokyo)</p>	<p><b>1aH06</b> Marchantia-derived sulfated peptide MAPPY regulates the branching of thallus <u>Hidefumi Shinohara</u><sup>1</sup>, Yoko Hayashi<sup>2</sup>, Kota Yokoi<sup>1</sup>, Yoshikatsu Matsubayashi<sup>2</sup> (<sup>1</sup>Dept. Biosci. Biotech. Fukui Pref. Univ., <sup>2</sup>Grad. Sch. Sci. Nagoya Univ.)</p>	Symposium S01 Stomatal research frontline—From molecules and cells to individual organisms—(9:30–12:30)	Symposium S02 Interactions between Plants and Atmosphere: from Atom to Ecosystem (9:30–12:30)	Symposium S03 [English] Unveil the enigma of plant actuators: exploring molecular and evolutionary mechanisms and engineering applications (9:30–12:10)	10:45
<p><b>1aE07</b> <b>E</b> Characterization of Tomato Fruit Ripening Transcription Factors via Comparative Omics Approach <u>Hwa Eun Kim</u><sup>1</sup>, Shinichiro Komaki<sup>1</sup>, Mutsumi Watanabe<sup>1</sup>, Alisdair R. Fernie<sup>2</sup>, Takayuki Tohge<sup>1</sup> (<sup>1</sup>Grad. Sch. Sci., Tech., NAIIST, <sup>2</sup>MPI-MPP)</p>	<p><b>1aF07</b> Effect of salt stress on CBL interacting protein kinase 26 <u>Mana Hamada</u><sup>1</sup>, Ryosuke Hori<sup>1</sup>, Kohei Nishino<sup>2</sup>, Hidetaka Kosako<sup>2</sup>, Akira Nozawa<sup>1</sup>, Tatsuya Sawasaki<sup>1</sup> (<sup>1</sup>PROS, Ehime University, <sup>2</sup>Fujii Memorial Institute of Medical Sciences, Tokushima University)</p>	<p><b>1aG07</b> Exploring QTLs Related to the Adaptation to Nitrogen-Deficient Environments in <i>Arabidopsis thaliana</i> <u>Keina Monda</u><sup>1</sup>, Atsushi Mabuchi<sup>1</sup>, Juntaro Negi<sup>1</sup>, Satoshi Iuchi<sup>2</sup>, Masatomo Kobayashi<sup>2</sup>, Michitaka Notaguchi<sup>3,4,5</sup>, Hiroki Tsutsui<sup>3,6</sup>, Mitsutomo Abe<sup>7</sup>, Yasuhiro Sakuraba<sup>8</sup>, Shuichi Yanagisawa<sup>8</sup>, Koh Iba<sup>1</sup> (<sup>1</sup>Dept. Biol., Fac. Sci., Kyushu Univ., <sup>2</sup>RIKEN BRC, <sup>3</sup>Grad. Sch. Bioagri. Sci., Nagoya Univ., <sup>4</sup>Biosci. Biotech. Center, Nagoya Univ., <sup>5</sup>Grad. Sch. Sci., Kyoto Univ., <sup>6</sup>OIST, <sup>7</sup>Grad. Sch. Art Sci., Univ. Tokyo, <sup>8</sup>Grad. Sch. Agri. Life Sci., Univ. Tokyo)</p>	<p><b>1aH07</b> Transient cytokinin response acts as priming signal to initiate secondary growth <u>Shunji Shimadzu</u><sup>1,2</sup>, Shusei Mori<sup>1</sup>, Tomoyuki Furuya<sup>3</sup>, Mikiko Kojima<sup>4</sup>, Yumiko Takebayashi<sup>4</sup>, Kyoko Ohashi-Ito<sup>1</sup>, Kimitsune Ishizaki<sup>2</sup>, Masashi Asahina<sup>5,6</sup>, Hitoshi Sakakibara<sup>4,7</sup>, Soichi Inagaki<sup>1</sup>, Tetsuji Kakutani<sup>1</sup>, Hidehiro Fukaki<sup>2</sup>, Hiroo Fukuda<sup>8</sup>, Yuki Kondo<sup>2</sup> (<sup>1</sup>Grad. Sch. Sci., Univ. of Tokyo, <sup>2</sup>Grad. Sch. Sci., Kobe Univ., <sup>3</sup>Col. Sch. Sci., Ritsumeikan Univ., <sup>4</sup>CSRS, RIKEN, <sup>5</sup>Dept. Biosci., Teikyo Univ., <sup>6</sup>Adv. Inst. Anal. Center, Teikyo Univ., <sup>7</sup>Grad. Sch. Bioagric. Sci., Nagoya Univ., <sup>8</sup>Akita Prefectural Univ.)</p>				11:00
<p><b>1aE08</b> Field transcriptome analysis unveils novel genetic pathways for early heading in spring barley <u>June-Sik Kim</u><sup>1,2</sup>, Jun Ito<sup>3</sup>, Yukiko Uehara-Yamaguchi<sup>1</sup>, Kotaro Takahagi<sup>3</sup>, Asaka Kanatani<sup>1</sup>, Minami Shimizu<sup>1</sup>, Komaki Inoue<sup>1</sup>, Satoshi Okada<sup>2,4</sup>, Takakazu Matsuura<sup>2</sup>, Koosuke Hattori<sup>2</sup>, Yoko Ikeda<sup>2</sup>, Daisuke Saisho<sup>2</sup>, Hiroyuki Tsuji<sup>3,4</sup>, Takashi Hirayama<sup>2</sup>, Kazuhiro Sato<sup>2</sup>, Keiichi Mochida<sup>1,2,3,6,7</sup> (<sup>1</sup>RIKEN CSRS, <sup>2</sup>IPSR, Okayama Univ., <sup>3</sup>KIBR, Yokohama City Univ., <sup>4</sup>Biosci. Biotech. Ctr., Nagoya Univ., <sup>5</sup>Grad. Sch. Eng., Chubu Univ., <sup>6</sup>Sch. Inform. Data Sci., Nagasaki Univ., <sup>7</sup>RIKEN RCSTI)</p>	<p><b>1aF08</b> Studies on cold acclimation of <i>Allium tuberosum</i> for application in agriculture <u>Yuto Kasamatsu</u>, Yukio Kawamura (Grad. Sch. Plant., Univ. Iwate)</p>	<p><b>1aG08</b> Nitrate inhibits adventitious bud formation from leaves of <i>Drasera rotundifolia</i> <u>Shinichiro Ito</u><sup>1</sup>, Juse Okamoto<sup>2</sup>, Arisa Yoshioka<sup>2</sup>, Kazuki Kawamura<sup>2</sup>, Nobuyuki Takatani<sup>2</sup>, Tatsuo Omata<sup>2</sup>, Makiko Aichi<sup>2</sup> (<sup>1</sup>Grad. Sch. Biosci. Biotech., Chubu Univ., <sup>2</sup>Col. Biosci. Biotech., Chubu Univ.)</p>	<p><b>1aH08</b> Identification of stomatal-reducing compound Stomidazolone <u>Ayami Nakagawa</u><sup>1</sup>, Krishna Mohan Sepuru<sup>2,3</sup>, Yip Shu Jan<sup>1</sup>, Hyemin Seo<sup>2,3</sup>, Calvin Coffin<sup>2,3</sup>, Yasutomo Segawa<sup>4</sup>, Rie Iwasaki<sup>1</sup>, Hiroe Kato<sup>1</sup>, Stephanie Kim<sup>3</sup>, Yusuke Aihara<sup>1,5</sup>, Toshinori Kinoshita<sup>1</sup>, Kenichiro Itami<sup>1</sup>, Soon-ki Han<sup>1,6</sup>, Kei Murakami<sup>1,5,7</sup>, Keiko Torii<sup>1,2,3</sup> (<sup>1</sup>ITbM, Nagoya University, <sup>2</sup>Howard Hughes Medical Institute, <sup>3</sup>The University of Texas at Austin, <sup>4</sup>Institute for Molecular Science and SOKENDAI, <sup>5</sup>PRESTO, Japan Science and Technology Agency, <sup>6</sup>Institute for Advanced Research, Nagoya University, <sup>7</sup>Department of Chemistry, Kwansai Gakuin University)</p>				11:15
<p><b>1aE09</b> Comprehensive analysis of reduction potential of cysteine residues using redox proteomics <u>Kenya Tanaka</u><sup>1,2,3</sup>, Akihiko Kondo<sup>1,3,4</sup>, Tomohisa Hasunuma<sup>1,3,4</sup> (<sup>1</sup>EGBRC, Kobe Univ., <sup>2</sup>Grad. Sch. Eng. Sci. RCSEC, Osaka Univ., <sup>3</sup>Grad. Sch. Sci. Technol. Innov., Kobe Univ., <sup>4</sup>CSRS, Riken)</p>	<p><b>1aF09</b> Acclimation to the submerged condition by changes in leaf function and structure in the amphibious plant <i>Hygrophila difformis</i> <u>Genki Horiguchi</u><sup>1</sup>, Yusuke Mizokami<sup>1</sup>, Naoki Hirotsu<sup>2</sup>, Ko Noguchi<sup>1</sup> (<sup>1</sup>Sch. Life Sci., Tokyo Univ. Pharm. Life Sci., <sup>2</sup>Sch. Life Sci., Toyo Univ.)</p>	<p><b>1aG09</b> <b>E</b> Functional analysis of two GARP-type transcription factors OSHHO3 and OSHHO4 in the regulation of nitrogen-deficiency response in rice <u>Yuying Wu</u>, Mailun Yang, Namie Ohtsuki, Yasuhiro Sakuraba, Shuichi Yanagisawa (Agro-Biotech. Res. Center, Grad. Sch. Agr. Life Sci., Univ. Tokyo)</p>	<p><b>1aH09</b> Functional analyses of HPY2/AtNSE2 and SMC5/6 complex in the regulation of development Mika Yoshimura, <u>Takashi Ishida</u> (Kumamoto Univ., FAST)</p>				11:30
<p><b>1aE10</b> Molecular responses of rice varieties to low-sulfate soil in the Volta River Basin in Ghana <u>Kyonoshin Maruyama</u><sup>1,2</sup>, Yasuhiro Tsujimoto<sup>1</sup>, Tetsuya Sakurai<sup>3</sup>, Hiroaki Sakai<sup>4</sup>, Shingo Sakamoto<sup>5</sup>, Nobutaka Mitsuda<sup>5</sup> (<sup>1</sup>JIRCAS, <sup>2</sup>Bio. Sci., Univ. Tsukuba, <sup>3</sup>Multi. Sci. Cluster, Kochi Univ., <sup>4</sup>NAAC, NARO, <sup>5</sup>Bioprod., AIST)</p>	<p><b>1aF10</b> Arabidopsis MAP4K1 and MAP4K2 Positively Regulate ABA-induced Stomatal Closure via Ca<sup>2+</sup> Signaling <u>Kota Yamashita</u><sup>1</sup>, Anzu Oishi<sup>1</sup>, Hinano Takase<sup>1</sup>, Sotaro Katagiri<sup>1</sup>, Yangdan Li<sup>1</sup>, Yoshiaki Kamiyama<sup>1</sup>, Shota Yamauchi<sup>2</sup>, Atsushi Takemiyama<sup>2</sup>, Izumi Mori<sup>3</sup>, Taishi Umezawa<sup>1</sup> (<sup>1</sup>BASE, Tokyo Univ. Agric. Tech., <sup>2</sup>Yamaguchi Univ., <sup>3</sup>Okayama Univ.)</p>	<p><b>1aG10</b> Elucidation of the regulatory mechanism underlying nitrogen deficiency-induced miRNA dynamics <u>Yasuhiro Sakuraba</u>, Mailun Yang, Shuichi Yanagisawa (Agro-Biotech. Res. Center, Grad. Sch. Agri. Life Sci., Univ. Tokyo)</p>	<p><b>1aH10</b> Comparative analysis of three subgroups of BZR/BES transcription factors <u>Tomoyuki Furuya</u><sup>1</sup>, Shohei Nosaki<sup>2,3</sup>, Yuki Kondo<sup>4</sup>, Masahiro Kasahara<sup>1</sup> (<sup>1</sup>College Sch. Sci., Ritsumeikan Univ., <sup>2</sup>Inst. of Life and Env. Sci., Univ. of Tsukuba, <sup>3</sup>T-PIRC, Univ. of Tsukuba, <sup>4</sup>Grad. Sch. Sci., Kobe Univ.)</p>				11:45

● Day 1, Sun., March 17, AM (9:30–12:30)

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Environmental response A/ Physiological responses	Organelles/Cytoskeleton	New technology
12:00	<p>1aA11 Spillover in leaf discs at 77K: Effects of growth light, state transitions, NPQ, <i>b</i>-less mutation and thylakoid morphology <u>Ichiro Terashima</u><sup>1</sup>, <u>Kimie Atsuzawa</u><sup>2</sup>, <u>Riichi Oguchi</u><sup>3</sup>, <u>Yasuko Kaneko</u><sup>4</sup>, <u>Masaru Kono</u><sup>5</sup> (<sup>1</sup>ISAS, Univ. Tokyo, <sup>2</sup>Comprehensive Anal. Center, Saitama Univ., <sup>3</sup>Dept. Biol., Sch. Sci., Osaka Met. Univ., <sup>4</sup>Dept. Nat. Sci., Fac. Educ., Saitama Univ., <sup>5</sup>Dept. Biol. Sci., Fac. Sci., Kanagawa Univ.)</p>	<p>1aB11 mRNA encapsulation responses by the nucleus under high phosphorus fertilization in rice leaves <u>Daisuke Takagi</u> (Setsunan University, Faculty of Agriculture)</p>	<p>1aC11 NOF1 endonuclease mediates the segregation of chloroplast nucleoids <u>Nao Otani</u><sup>1</sup>, <u>Ayano Ikeda</u><sup>1</sup>, <u>Hidehito Hirokado</u><sup>1</sup>, <u>Kota Ishibashi</u><sup>2</sup>, <u>Takashi Yamoano</u><sup>3</sup>, <u>Hideya Fukuzawa</u><sup>3</sup>, <u>Yoshiki Nishimura</u><sup>4</sup>, <u>Yusuke Kobayashi</u><sup>1</sup> (<sup>1</sup>Sci., Ibaraki Univ., <sup>2</sup>Life Sci., Kyoto Sangyo Univ., <sup>3</sup>GRB, Kyoto Univ., <sup>4</sup>Sci., Kyoto Univ.)</p>	
12:15		<p>1aB12 Evaluation of phosphorus nutrient recycling capacity in aluminum-philic tea plants <u>Keitaro Koike</u><sup>1</sup>, <u>Hiroto Yamashita</u><sup>1,2,3</sup>, <u>Takashi Ikka</u><sup>1,2,3,4</sup> (<sup>1</sup>The United Graduate School of Agricultural Science, <sup>2</sup>Faculty of Agriculture, Shizuoka University, <sup>3</sup>Institute for Tea Science, Shizuoka University, <sup>4</sup>Research Institute of Green Science and Technology, Shizuoka University)</p>	<p>1aC12 Chloroplast DSBs Introduced by the BUMPS Method Are Quickly Removed <u>Aine Kawashima</u>, <u>Haruki Kanazawa</u>, <u>Toshiharu Shikanai</u>, <u>Yoshiki Nishimura</u> (Grad. Sci., Kyoto Univ.)</p>	



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

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Environmental response A/ Physiological responses	Organelles/Cytoskeleton	Reproduction
14:00	<p>1pA01 Variety and Reaction Mechanisms of Far-red Adapted Photosystems I and II in Nine Species of Chlorophyll <i>f</i>-Producing Cyanobacteria <u>Shigeru Itoh</u><sup>1</sup>, Syo Kitazaki<sup>2</sup>, Tomoki Ono<sup>2</sup>, Hisanori Yamakawa<sup>1</sup>, Hideaki Miyashita<sup>2</sup> (<sup>1</sup>Grad. Sch. Sci. Physics, Nagoya Univ., <sup>2</sup>Univ. Kyoto, Grad. Sch. Human Environmenta)</p>	<p>1pB01 <b>E</b> Mechanosensitive channel genes of a stem parasitic plant, <i>Cuscuta campestris</i>, and their role in haustorium initiation <u>Jihwan Park</u>, Koh Aoki (Grad. Sch. Agric., Osaka Metro. Univ)</p>	<p>1pC01 High-resolution imaging of the CO<sub>2</sub>-concentrating organelle "Pyrenoid" during cell division Koujiro Matsuo, <u>Takashi Yamano</u> (Grad. Sch. Biostudies, Kyoto University)</p>	<p>1pD01 Molecular understanding of the determination of female reproductive organ fates in <i>Physcomitrium patens</i> <u>Emiko Yoro</u><sup>1</sup>, Ryohei Sato<sup>1</sup>, Nobuhiro Akiyoshi<sup>1</sup>, Seiya Suzuki<sup>1</sup>, Rumiko Kofuji<sup>2</sup>, Keiko Sakakibara<sup>1</sup> (<sup>1</sup>Dept. Life Sci., Rikkyo Univ., <sup>2</sup>Coll. Sci. &amp; Engr., Kanazawa Univ.)</p>
14:15	<p>1pA02 Theoretical Analysis of Light-Harvesting Mechanism of Mixture of Multiple Pigments in Acidobacterium <i>C. thermophilum</i> Type-I Reaction Center Wataru Shimooka<sup>1</sup>, Hirotaka Kitoh<sup>2</sup>, Shigeru Itoh<sup>1</sup>, <u>Akihiro Kimura</u><sup>1</sup> (<sup>1</sup>Grad Sch Sci, Nagoya Univ., <sup>2</sup>Fac. Sci. Eng., Kindai Univ.)</p>	<p>1pB02 The characteristics of <i>Arabidopsis thaliana</i>, <i>Lotus corniculatus</i>, Micro-Tom, <i>Nicotiana benthamiana</i>, and <i>Brachypodium distachyon</i> cultivated using pseudo-solar LED lighting <u>Hajime Furukawa</u><sup>1</sup>, Eibai Matsukawa<sup>2</sup>, Tetsuji Iida<sup>2</sup>, Ichiro Kijihana<sup>2</sup> (<sup>1</sup>Grad. sch. Agri. Osaka Metropolitan Univ., <sup>2</sup>Nippon Medical &amp; Chemical Instruments Co., Ltd.)</p>	<p>1pC02 Comparative functional analysis of membrane proteins involved in the maintenance and regulation of lipid monolayer membrane organelles Takashi Nakayama<sup>1</sup>, Takumi Hiraki<sup>1</sup>, Kosuke Miwa<sup>1</sup>, Miki Suenaga-Hiromori<sup>1</sup>, Fu Kuroiwa<sup>2</sup>, Toshiyuki Waki<sup>1</sup>, Satoshi Yamashita<sup>3</sup>, Haruhiko Yamaguchi<sup>4</sup>, Yukino Miyagi<sup>4</sup>, Masako Iwai<sup>5</sup>, Hiroyuki Ohta<sup>5,6</sup>, Yuzuru Tozawa<sup>2</sup>, Toru Nakayama<sup>1</sup>, <u>Seiji Takahashi</u><sup>1</sup> (<sup>1</sup>Grad. Sch. Eng., Tohoku Univ., <sup>2</sup>Grad. Sch. Sci. Eng., Saitama Univ., <sup>3</sup>Grad. Sch. Nat. Sci. Tech., Kanazawa Univ., <sup>4</sup>Sumitomo Rubber Industries, Ltd., <sup>5</sup>Phytolipid Technologies Co., Ltd., <sup>6</sup>Sch. Life Sci. Tech., Tokyo Tech)</p>	<p>1pD02 Elucidation Of Regulatory Mechanisms For <i>Physcomitrium Patens</i> RKD Transcription Factor Which Determine The Fate Of Female Reproductive Organs <u>Nobuhiro Akiyoshi</u>, Emiko Yoro, Seiya Suzuki, Keiko Sakakibara (Dept. Life Sci., Rikkyo Univ.)</p>
14:30	<p>1pA03 The Analysis of Photosystem I Peripheral Antenna complexes in early-diverged Green Algae Pyramimonas parkeae and Nephroselmis astigmatica <u>Shinsa Kameo</u><sup>1,2</sup>, Atsushi Takabayashi<sup>1,2</sup>, Ryouichi Tanaka<sup>1,2</sup> (<sup>1</sup>ILTS, Univ. Hokkaido, <sup>2</sup>Grad. Env. Sci., Univ. Hokkaido)</p>	<p>1pB03 The phenology of transcriptome reveals the physiological status during spring bud-break in tea plants <u>Mahiro Onuki</u><sup>1</sup>, Jumpei Kawaki<sup>2</sup>, Atsushi J. Nagano<sup>3,4</sup>, Takashi Ikka<sup>5,6,7</sup>, Hiroto Yamashita<sup>5,6</sup> (<sup>1</sup>Grad. Sch. Agr., Univ. Shizuoka, <sup>2</sup>Tea Res Cent., Shizuoka Pref., <sup>3</sup>Fac. Agr., Univ. Ryukoku, <sup>4</sup>Inst. Adv. Biosci., Univ. Keio, <sup>5</sup>Fac. Agr., Univ. Shizuoka, <sup>6</sup>Inst. for Tea Sci, Univ. Shizuoka, <sup>7</sup>Res. Inst. of Green Sci. and Tech., Univ. Shizuoka)</p>	<p>1pC03 Functional diversity and conservation of Arabidopsis and tomato myosin XI revealed from intra-cellular comparative analysis <u>Jun Obara</u><sup>1</sup>, Tomoyasu Suzuki<sup>1</sup>, Takeshi Haraguchi<sup>2</sup>, Kohji Ito<sup>2</sup>, Satoko Nonaka<sup>3,4</sup>, Motoki Tominaga<sup>1,5</sup> (<sup>1</sup>Grad. Sch. Adv. Sci. Eng., Waseda Univ., <sup>2</sup>Grad. Sch. Sci. Bio., Chiba Univ., <sup>3</sup>T-PIRC, Tsukuba Univ., <sup>4</sup>Ins. Life &amp; Environmtl Sci., Tsukuba Univ., <sup>5</sup>Fac. Educ. Integrated Arts. Sci. Bio., Waseda Univ.)</p>	<p>1pD03 <b>E</b> Chromatin dynamics during fertilization of a liverwort, <i>Marchantia polymorpha</i> <u>Tetsuya Hisanaga</u>, Frederic Berger (Gregor Mendel Institute)</p>
14:45	<p>1pA04 The light-dependent increase in the steady state level of chlorophyll fluorescence reflects the energy dissipation mechanism characteristic of cyanobacteria <u>Takako Ogawa</u><sup>1</sup>, Hiroko Takahashi<sup>1</sup>, Yoshitaka Nishiyama<sup>1</sup>, Yukako Hihara<sup>1</sup>, Kintake Sonoike<sup>2</sup> (<sup>1</sup>Sch. Sci. Eng., Saitama Univ., <sup>2</sup>Fac. Educ., Waseda Univ.)</p>	<p>1pB04 <b>E</b> Environmental regulation of shoot and root growth in <i>Poa annua</i> <u>Louis J. Irving</u> (Univ. Tsukuba, Life &amp; Env. Sci)</p>	<p>1pC04 Functional analysis of myosin XI in <i>Marchantia polymorpha</i> <u>Shuya Uchida</u><sup>1</sup>, Takehiko Kanazawa<sup>2,3</sup>, Jun Obara<sup>1</sup>, Yuto Kuroda<sup>1</sup>, Takashi Ueda<sup>2,3</sup>, Motoki Tominaga<sup>1,4</sup> (<sup>1</sup>Grad. Sch. Adv. Sci., Waseda Univ., <sup>2</sup>Div. Cellular Dynamics, <sup>3</sup>Grad. Inst. for Advanced Studies, SOKENDAI, <sup>4</sup>Fac. Educ. Integrated Arts. Sci. Bio., Waseda Univ.)</p>	<p>1pD04 Functional analysis of a gene encoding EF-hand protein, MpCAPS, in the sperm chemotaxis in <i>Marchantia polymorpha</i> <u>Mizuki Morita</u><sup>1</sup>, Katsuyuki T. Yamato<sup>2</sup> (<sup>1</sup>Grad. Sch. BOST, Kindai Univ., <sup>2</sup>Fac. BOST, Kindai Univ.)</p>





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

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Environmental response A/ Physiological responses	Organelles/Cytoskeleton	Reproduction
15:00	<p>1pA05 Biochemical Analysis on Functional Diversity of the LexA Transcription Factor in Cyanobacteria <u>Aoi Ando</u><sup>1</sup>, Haruka Kubodera<sup>1</sup>, Ayumi Kizawa<sup>2</sup>, Yukako Hihara<sup>1</sup> (<sup>1</sup>Sci. Eng., Saitama Univ., <sup>2</sup>Fac. Sci. Eng., Chuo Univ.)</p>	<p>1pB05 Mechanostructural Analysis of Arabidopsis Leaf Movement Based on 3D Reconstruction of X-ray CT Images <u>Maika Hayashi</u><sup>1</sup>, Tadashi Kunieda<sup>1,2</sup>, Ryo Kumagai<sup>1</sup>, Makito Haruta<sup>3</sup>, Yoshito Otake<sup>3</sup>, Hirokazu Kato<sup>4</sup>, Hiroyuki Shima<sup>5</sup>, Taku Demura<sup>1,2</sup> (<sup>1</sup>Div. Biol. Sci., NAIST, <sup>2</sup>CDG, NAIST, <sup>3</sup>Fac. Sci. Eng., Chitose Inst. Sci. Tech., <sup>4</sup>Div. Info. Sci., NAIST, <sup>5</sup>Dept. Env. Sci., Univ. Yamanashi)</p>	<p>1pC05 Analysis of <i>MYOSIN XI</i>-expressing regions involved in straightening of inflorescence stems in <i>Arabidopsis</i> <u>Satoko Okamura</u><sup>1</sup>, Yuzuki Miyake<sup>2</sup>, Yuuna Umemura<sup>1</sup>, Hiroki Yagi<sup>2</sup>, Koichi Toyokura<sup>3</sup>, Ikuko Hara-Nishimura<sup>2</sup>, Haruko Ueda<sup>1,2</sup> (<sup>1</sup>Fac. Sci. Eng., Konan Univ., <sup>2</sup>Grad. Sch. Nat. Sci., Konan Univ., <sup>3</sup>Grad. Sch. Integr. Sci. Life, Hiroshima Univ.)</p>	<p>1pD05 MpGEX1 is required for fertilization of the liverwort <i>Marchantia polymorpha</i> <u>Shuh-ichi Nishikawa</u><sup>1</sup>, Sakura Eizuka<sup>2</sup>, Shohei Yamaoka<sup>3</sup>, Naoki Minamino<sup>4</sup>, Takashi Ueda<sup>5,6</sup> (<sup>1</sup>Fac. Sci., Niigata Univ., <sup>2</sup>Grad. Sch. Sci. Tech., Niigata Univ., <sup>3</sup>Grad. Sch. Biostudies, Kyoto Univ., <sup>4</sup>Grad. Sch. Sci. Tech., Kumamoto Univ., <sup>5</sup>NIBB, <sup>6</sup>Grad. Inst. for Adv. Stud., SOKENDAI)</p>
15:15	<p>1pA06 Physiological Analysis on Diversity in SOS Response upon UV Treatment in Cyanobacteria <u>Haruka Kubodera</u><sup>1</sup>, Aoi Ando<sup>1</sup>, Ayumi Kizawa<sup>2</sup>, Yukako Hihara<sup>1</sup> (<sup>1</sup>Grad. Sch. Sci. Eng., Saitama Univ., <sup>2</sup>Fac. Sci. Eng., Chuo Univ.)</p>	<p>1pB06 Phosphoproteomic analysis of CO<sub>2</sub>-induced stomatal opening/closing mechanisms <u>Kaito Uchihashi</u><sup>1</sup>, Yoshikatsu Matsubayashi<sup>1</sup>, Toshinori Kinoshita<sup>1,2</sup>, Yohei Takahashi<sup>2</sup> (<sup>1</sup>Grad. Sch. Sci., Nagoya Univ., <sup>2</sup>ITbM., Nagoya Univ.)</p>	<p>1pC06 Transcriptional regulation of actin polymerization switches cell wall patterns in xylem vessels <u>Saku Kijima</u><sup>1</sup>, Takema Sasaki<sup>2</sup>, Yuki Kondo<sup>3</sup>, Soichi Inagaki<sup>4</sup>, Masatoshi Yamaguchi<sup>5</sup>, Yoshihisa Oda<sup>2</sup> (<sup>1</sup>Bioproduct. Res. Inst., AIST, <sup>2</sup>Grad. Sch. Sci., Nagoya Univ., <sup>3</sup>Grad. Sch. Sci., Kobe Univ., <sup>4</sup>Grad. Sch. Sci., Univ. Tokyo, <sup>5</sup>Grad. Sch. Sci. Eng., Saitama Univ.)</p>	<p>1pD06 <b>E</b> Dynamics of MYB98 Regulation: What Does the Discovery of <i>SaeM</i> Suggest? <u>Prakash B. Adhikari</u><sup>1</sup>, Nobutaka Mitsuda<sup>3</sup>, Xiaoyan Liu<sup>2</sup>, Chen Huang<sup>2</sup>, Shaowei Zhu<sup>2</sup>, Michitaka Notaguchi<sup>1</sup>, Ryushiro Kasahara<sup>1</sup> (<sup>1</sup>Biotechnology and Bioscience Resource Center, Nagoya University, Japan, <sup>2</sup>Fujian Agriculture and Forestry University, Fuzhou, China, <sup>3</sup>National Institute of Advanced Industrial Science and Technology (AIST))</p>
15:30	<p>1pA07 Light-responsive proton transport mechanisms of cyanobacterial cell membranes control intracellular pH <u>Akito Machida</u><sup>1</sup>, Akane Echigo<sup>1</sup>, Kumiko Kondo<sup>1,2</sup>, Toru Hisabori<sup>1,2,3</sup>, Shinji Masuda<sup>1</sup> (<sup>1</sup>Dept. Life Sci. &amp; Tech., Tokyo Inst. Tech., <sup>2</sup>Lab. Chem. &amp; Life Sci., IIR, Tokyo Inst. Tech., <sup>3</sup>IRFI, Tokyo Inst. Tech.)</p>	<p>1pB07 Cassava Tubercization Is Controlled by Changes in Daylength <u>Utsumi Yoshinori</u><sup>1</sup>, Chikako Utsumi<sup>1</sup>, Maho Tanaka<sup>1,2</sup>, Akihiro Ezoe<sup>1</sup>, Satoshi Takahashi<sup>1,2</sup>, Prat Salome<sup>3</sup>, Motoaki Seki<sup>1,2,4,5</sup> (<sup>1</sup>RIEKN CSRS, <sup>2</sup>RIKEN CPR, <sup>3</sup>CIRAG, CSIC-IRTA-UAB-UB, <sup>4</sup>Yokohama City Univ., <sup>5</sup>Saitama Univ.)</p>	<p>1pC07 Molecular mechanisms that drive rapid growth in non-hair root epidermal cells <u>Hiroto Takatsuka</u><sup>1,2</sup>, Noriko Nagata<sup>3</sup>, Masaaki Umeda<sup>4</sup> (<sup>1</sup>School of Biological Science and Technology, College of Science and Engineering, Kanazawa University, <sup>2</sup>PRESTO, JST, <sup>3</sup>Department of Chemical and Biological Sciences, Faculty of Science, Japan Women's University, <sup>4</sup>Graduate School of Science and Technology, Nara Institute of Science and Technology)</p>	<p>1pD07 Discovery of Gate-I and Gate-II, as new plant tissues in developing seeds <u>Prakash B. Adhikari</u><sup>1</sup>, Kohdai Nakajima<sup>2,3</sup>, Xiaoyan Liu<sup>4</sup>, Michitaka Notaguchi<sup>5</sup>, <u>Ryushiro Kasahara</u><sup>1</sup> (<sup>1</sup>Bioscience and Biotechnology Center, Nagoya University, <sup>2</sup>Graduate school of science, University of Tokyo, <sup>3</sup>Technion, <sup>4</sup>Fujian Agriculture and forestry University, <sup>5</sup>Graduate school of science, Kyoto University)</p>
15:45	<p>1pA08 Significance of the DLDG1-dependent chloroplast pH homeostasis for controlling plastid gene expression Hikaru Tagami, Kasane Suzuki, <u>Shinji Masuda</u> (Dep. Life Sci. &amp; Tech., Tokyo Inst. Tech.)</p>		<p>1pC08 Analysis of organelle dynamics in root hairs <u>Toshiki Amari</u><sup>1</sup>, Noriko Nagata<sup>2</sup>, Masaki Ito<sup>1</sup>, Hiroto Takatsuka<sup>1,3</sup> (<sup>1</sup>School of Biological Science and Technology, College of Science and Engineering, Kanazawa University, Kakumamachi, Kanazawa, Ishikawa 920-1192, Japan, <sup>2</sup>Department of Chemical and Biological Sciences, Faculty of Science, Japan Women's University, Bunkyo-ku, Tokyo 112-8681, Japan, <sup>3</sup>PRESTO, JST)</p>	<p>1pD08 Reverification of gamete fusogen GCS1 in plants- Rearguard GCS1 <u>Kohdai Nakajima</u><sup>1,2</sup>, Prakash B. Adhikari<sup>3</sup>, Tetsuya Higashiyama<sup>1</sup>, Ryushiro Kasahara<sup>3</sup> (<sup>1</sup>Grad. Sch. Sci., UTokyo, <sup>2</sup>Technion, <sup>3</sup>NUBBC)</p>
16:00	<p>1pA09 Search for cyanobacteria growing in extreme environments <u>Shota Suzuki</u>, Shigeru Kawai, Toshihiko Eki, Yuu Hirose (Toyohashi Tech. Dept. of Appl. Chem. and Life Sci.)</p>		<p>1pC09 Combination of live-cell imaging and mathematical modeling of Arabidopsis zygote reveals the mechanism of polar elongation <u>Hikari Matsumoto</u><sup>1</sup>, Zichen Kang<sup>2</sup>, Sakumi Nakagawa<sup>1</sup>, Tomonobu Nonoyama<sup>2</sup>, Yukitaka Ishimoto<sup>2</sup>, Takumi Higaki<sup>3</sup>, Satoru Tsugawa<sup>2</sup>, Minako Ueda<sup>1</sup> (<sup>1</sup>Grad. Sch. Life Sci., Tohoku Univ., <sup>2</sup>Fac. Sys. Sci., Akita Prefectural Univ., <sup>3</sup>IROAST, Kumamoto Univ.)</p>	<p>1pD09 How are patch-like extracellular structures between the egg cell and the central cell formed? <u>Daichi Susaki</u><sup>1</sup>, Takao Oi<sup>2</sup>, Hinako Oshirabe<sup>1</sup>, Hidenori Takeuchi<sup>3,4</sup>, Shiori Nagahara<sup>5</sup>, Naoya Sugi<sup>1</sup>, Tetsu Kinoshita<sup>1</sup>, Daisuke Maruyama<sup>1</sup> (<sup>1</sup>KIBR, Yokohama City Univ., <sup>2</sup>Grad. Sch. of Bioagri. Sci., Nagoya Univ., <sup>3</sup>WPI-ITbM, Nagoya Univ., <sup>4</sup>Inst. for Adv. Res., Nagoya Univ., <sup>5</sup>Grad. Sch. of Sci., Kyoto Univ.)</p>


Room E	Room F	Room G	Room H	Room X	Room Y	Room Z	Time
Plant-organism interaction A	Environmental response B/ Environmental stresses	Primary metabolism/Specialized (secondary) metabolism/Plant hormones/Signaling molecules	Development/Morphogenesis				
<p><b>1pE05</b> <b>E</b> Tandem gene duplication generates a paralog that forms an NLR pair to confer resistance to rice blast fungus Yuying Li<sup>2</sup>, Qiong Wang<sup>3</sup>, Huimin Jia<sup>4</sup>, <u>Yoji Kawano</u><sup>1</sup> (<sup>1</sup>Okayama University, <sup>2</sup>Chinese Academy of Agricultural Sciences, <sup>3</sup>Yangzhou University, <sup>4</sup>Jiangxi Agricultural University)</p>	<p><b>1pF05</b> Enhancing Resilience to Prolonged Heat Stress in Brachypodium and Wheat through Mugineic Acid Supplementation <u>Anzu Minami</u><sup>1,2</sup>, Yoshihiko Onda<sup>1</sup>, Minami Shimizu<sup>1</sup>, Yukiko Uehara-Yamaguchi<sup>1</sup>, Tomoko Nozoye<sup>3,4</sup>, Motofumi Suzuki<sup>5</sup>, Asuka Kanatani<sup>1</sup>, Kotaro Takahagi<sup>1</sup>, Komaki Inoue<sup>1</sup>, Keiichi Mochida<sup>1,2,6</sup> (<sup>1</sup>RIKEN Center for Sustainable Resource Science, <sup>2</sup>Kihara Institute for Biological Research, Yokohama City University, <sup>3</sup>Center for Liberal Arts, Meiji Gakuin University, <sup>4</sup>Graduate School of Agricultural and Life Sciences, The University of Tokyo, <sup>5</sup>Aichi Steel Corporation, <sup>6</sup>School of Information and Data Sciences, Nagasaki University)</p>	<p><b>1pG05</b> Identification of genes contributing to low-oxalate-content in spinach <u>Haruto Yamanaka</u><sup>1</sup>, Shoya Ichikawa<sup>1</sup>, Kazuhiro Ishibashi<sup>2</sup>, Kentaro Sasaki<sup>2</sup>, Izumi Yotsui<sup>1</sup>, Yoichi Sakata<sup>1</sup>, Teruaki Taji<sup>1</sup> (<sup>1</sup>Dept. of Biosci., Tokyo Univ. of Agri., <sup>2</sup>Inst. Agrobio. Sci., NARO)</p>	<p><b>1pH05</b> Exploring the mechanisms of root bending response to gravity through quantitative analysis of cellular dynamics <u>Tatsuaki Goh</u><sup>1</sup>, Satoru Tsugawa<sup>2</sup>, Yuki Soma<sup>1</sup>, Takaaki Yonekura<sup>3</sup>, Hikaru Kasatani<sup>1</sup>, Keiji Nakajima<sup>1</sup> (<sup>1</sup>Div. Biol. Sci., NAIST, <sup>2</sup>Fac. Sys. Sci. Tech., Akita Pref. Univ., <sup>3</sup>Grad. Sch. Sci., Univ. Tokyo)</p>	Symposium S04	Symposium S05	Symposium S06	15:00
<p><b>1pE06</b> <b>E</b> Transcriptional landscape of rice receptor-like cytoplasmic kinases involved in rice immunity <u>Wanqing Wang</u> (Institute of Plant Science and Resources)</p>	<p><b>1pF06</b> <b>E</b> How does the sporangium protect the spore from heat? : The role of sporangium in the moss, <i>Physcomitrium patens</i> <u>Chang-Hyun Maeng</u><sup>1</sup>, Keita Nakamura<sup>2</sup>, Kumi Yoshida<sup>3</sup>, Masaki Shimamura<sup>4</sup>, Atsushi Kume<sup>5</sup>, Yuji Hiwataashi<sup>6</sup>, Tomomichi Fujita<sup>7</sup> (<sup>1</sup>Graduate school of Life Science, Hokkaido University, <sup>2</sup>Graduate School of Food, Agricultural and Environmental Sciences, Miyagi University, <sup>3</sup>Faculty of Engineering, Aichi Institute of Technology, <sup>4</sup>Graduate School of Integrated Sciences for Life, Hiroshima University, <sup>5</sup>Faculty of Agriculture, Kyushu University, <sup>6</sup>School of Food Industrial Sciences, Miyagi University, <sup>7</sup>Faculty of Science, Hokkaido University)</p>	<p><b>1pG06</b> <b>E</b> The significance of <i>mif</i>, <i>mtc</i>, and <i>cnb</i> genes for 2-methylisoborneol synthesis in <i>Pseudanabaena foetida</i> <u>Kaushalya Dayarathne</u><sup>1</sup>, Toshiki Ishikawa<sup>1</sup>, Satoru Watanabe<sup>2</sup>, Aikeranmu Kadeer<sup>1</sup>, Masatoshi Yamaguchi<sup>1</sup>, Maki Kawai-Yamada<sup>1</sup> (<sup>1</sup>Graduate School of Science and Engineering, Saitama University, Saitama, Japan, <sup>2</sup>Department of Bioscience, Tokyo University of Agriculture, Tokyo, Japan)</p>	<p><b>1pH06</b> Selection of stable auxin response sites controls lateral root spacing in Arabidopsis <u>Shohei Oshiro</u><sup>1</sup>, Tatsuaki Goh<sup>1</sup>, Yohei Kondo<sup>2</sup>, Takaaki Yonekura<sup>3</sup>, Kentaro Iwata<sup>4</sup>, Chieko Goto<sup>4</sup>, Hidehiro Fukaki<sup>4</sup>, Keiji Nakajima<sup>1</sup> (<sup>1</sup>Div. Biol. Sci., NAIST, <sup>2</sup>EXCELLS, Natl. Inst. Nat. Sci., <sup>3</sup>Grad. Sch. Sci., Univ. Tokyo, <sup>4</sup>Grad. Sch. Sci., Kobe Univ.)</p>	[English] Genetic transfer technology for plants and its associated sciences (14:00–17:00)	Creating new molecules to manipulate plant functions (14:00–17:00)	Local and systemic signalling for environmental responses in plants (14:00–17:00)	15:15
<p><b>1pE07</b> Arabidopsis SBT subtilases mediate C-terminal excision of flg22 epitope from bacterial flagellin <u>Sayaka Matsui</u><sup>1</sup>, Saki Noda<sup>1</sup>, Keiko Kuwata<sup>2</sup>, Mika Nomoto<sup>3</sup>, Yasuomi Tada<sup>3</sup>, Hidefumi Shinohara<sup>1</sup>, Yoshikatsu Matsubayashi<sup>1</sup> (<sup>1</sup>Grad. Sch. Sci., Nagoya Univ., <sup>2</sup>ITbM, Nagoya Univ., <sup>3</sup>Centr. Gene Res., Nagoya Univ.)</p>	<p><b>1pF07</b> Why is the color of <i>Polytricum commune</i> yellow green in the sun and green in the shade? <u>Hiromitsu Nakajima</u> (Grad. Sch. Sci. Eng., Saitama Univ.)</p>	<p><b>1pG07</b> Search for biosynthetic genes of hydrolyzable tannins that detoxify aluminum in <i>Eucalyptus camaldulensis</i> <u>Chihiro Oda-Yamamizo</u><sup>1</sup>, Nobutaka Mitsuda<sup>2</sup>, Kentaro Ezura<sup>2,3</sup>, Tokuko Ujino-Ihara<sup>1</sup>, Ko Tahara<sup>1</sup> (<sup>1</sup>FFPRI, <sup>2</sup>AIIST, <sup>3</sup>JSPS)</p>	<p><b>1pH07</b> <b>E</b> Lateral Root Primordium Formation by Extended Auxin Signaling in the Arabidopsis Root System <u>Feiyang Lin</u><sup>1</sup>, Hidehiro Fukaki<sup>2</sup>, Masaaki K. Watahiki<sup>1,3</sup> (<sup>1</sup>Grad. Sch. Life Sci., Hokkaido Univ., <sup>2</sup>Grad. Sch. of Sci., Kobe Univ., <sup>3</sup>Fac. Sci., Hokkaido Univ.)</p>				15:30
<p><b>1pE08</b> <b>E</b> Analysis of SnRK1 functions in sugar responsive modulation of immunity in Arabidopsis <u>Linnan Jie</u><sup>1</sup>, Ayumi Sugisaki<sup>2</sup>, Shigetaka Yasuda<sup>3</sup>, Kohji Yamada<sup>4</sup>, Miho Sanagi<sup>1,5</sup>, Mika Nomoto<sup>6</sup>, Susumu Uehara<sup>6</sup>, Yasuomi Tada<sup>6</sup>, Yusuke Saijo<sup>3</sup>, Junpei Takagi<sup>1</sup>, Takeo Sato<sup>1</sup> (<sup>1</sup>Fac. Sci., Hokkaido Univ., <sup>2</sup>Sch. Sci., Hokkaido Univ., <sup>3</sup>Grad. Sch. Sci. Tech., NAIST, <sup>4</sup>Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ., <sup>5</sup>CRIS., Hokkaido Univ., <sup>6</sup>Centr. Gene Res., Nagoya Univ.)</p>	<p><b>1pF08</b> Drought response analysis of wild-type strains isolated from Japan with the automated phenotyping system RIPPS <u>Miki Fujita</u><sup>1</sup>, Satoshi Iuchi<sup>2</sup>, Hiroshi Masuya<sup>2</sup>, Keiichi Mochida<sup>1</sup>, Masatomo Kobayashi<sup>2</sup>, Kazuo Shinozaki<sup>1</sup> (<sup>1</sup>RIKEN CSRS, <sup>2</sup>RIKEN BRC)</p>	<p><b>1pG08</b> The Molecular Evolution of UbiA-type Prenyltransferases Diversifies Citrus Phenol Metabolism <u>Shuhei Matsushita</u><sup>1</sup>, Ryosuke Munakata<sup>1,2</sup>, Takashi Akagi<sup>2,3</sup>, Tetsuya Matsukawa<sup>4,5</sup>, Alain Hehn<sup>6</sup>, Kazufumi Yazaki<sup>1</sup> (<sup>1</sup>RISH, Kyoto Univ., <sup>2</sup>JST-PRESTO, <sup>3</sup>Grad Sch Environ Life Sci, Okayama Univ., <sup>4</sup>The Experimental Farm, Kindai Univ., <sup>5</sup>BOST, Kindai Univ., <sup>6</sup>Univ. Lorraine-INRAE)</p>	<p><b>1pH08</b> The <i>fsp1</i> mutation in <i>SUR2/CYP83B1</i> causes reduced sensitivity to the TOLS2 peptide that functions in lateral inhibition of lateral root founder cell formation in <i>Arabidopsis</i> <u>Chieko Goto</u>, Nanako Maehara, Yuki Kondo, Kimitsune Ishizaki, Hidehiro Fukaki (Grad. Sch. Sci., Kobe Univ.)</p>				15:45
<p><b>1pE09</b> Identification of a novel defense component mediated by sugar signaling <u>Misuzu Yamashita-Yamada</u><sup>1</sup>, Akira Mine<sup>2</sup>, <u>Kohji Yamada</u><sup>1</sup> (<sup>1</sup>Grad. Sch. Tech. Ind. Soc. Sci., Tokushima Univ., <sup>2</sup>Grad. Sch. Agri., Kyoto Univ.)</p>	<p><b>1pF09</b> Strigolactone regulates stromule formation and chlorophagy under phosphate starvation <u>Yushi Yoshitake</u><sup>1,2</sup>, Kohki Yoshimoto<sup>1</sup> (<sup>1</sup>Sch. agri., Univ. Meiji, <sup>2</sup>JSPS)</p>	<p><b>1pG09</b> <b>E</b> Changes in free and bound volatile compounds in fruits of different tomato cultivars harvested through two years <u>Yingtao Li</u><sup>1</sup>, Yusuke Kamiyoshihara<sup>2</sup>, Yusuke Aono<sup>1</sup>, Denise Tieman<sup>3</sup>, Harry Klee<sup>3</sup>, Miyako Kusano<sup>4,5,6</sup> (<sup>1</sup>Grad. Sch. of Life and Envi. Sci., Univ. Tsukuba, <sup>2</sup>College of Bioresource Sciences, Nihon University, <sup>3</sup>Department of Horticultural Sciences, University of Florida, <sup>4</sup>Faculty of life and environment science, University of Tsukuba, <sup>5</sup>Tsukuba Plant Innovation Research Center, University of Tsukuba, <sup>6</sup>RIKEN Center for Sustainable Resource Science)</p>	<p><b>1pH09</b> <b>E</b> DOF-CLE signaling circuit in root vascular patterning <u>Pingping Qian</u><sup>1,2</sup>, Haruka Taito<sup>1</sup>, Tatsuo Kakimoto<sup>1</sup> (<sup>1</sup>Grad. Sch. Sci., Osaka Univ., <sup>2</sup>Grad. Sch. Sci., Kobe Univ.)</p>				16:00

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

Time	Room A	Room B	Room C	Room D
	Photosynthesis	Environmental response A/ Physiological responses	Organelles/Cytoskeleton	Reproduction
16:15	<p>1pA10 Genomes of the cyanobacterium <i>Leptolyngbya boryana</i> cultivated under dark heterotrophic conditions for a long time: Microevolution in the dark and a mutation responsible for the loss of photosynthetic growth ability <u>Mayu Chikada</u><sup>1</sup>, Kazuma Uesaka<sup>1</sup>, Mari Banba<sup>1</sup>, Kunio Ihara<sup>2</sup>, Haruki Yamamoto<sup>1</sup>, Yuichi Fujita<sup>1</sup> (<sup>1</sup>Grad. Sch. Bio. Sci., Univ. Nagoya, <sup>2</sup>Center for Gene Research, Univ. Nagoya)</p>		<p>1pC10 Mechanisms behind prospindle assembly and function in land plants <u>Takema Sasaki</u><sup>1</sup>, Kimitsune Ishizaki<sup>2</sup>, Hiroyasu Motose<sup>3</sup>, Yoshihisa Oda<sup>1</sup> (<sup>1</sup>Grad. Sch. Sci., Nagoya Univ., <sup>2</sup>Grad. Sch. Sci., Kobe Univ., <sup>3</sup>Grad. Sch. Nat. Sci., Okayama Univ.)</p>	<p>1pD10 Cellular and molecular analyses for activation and developmental initiation of zygotes using wheat-rice hybrid zygotes with or without developmental potentials <u>Ayaka Akagi</u>, Tety Maryenti, Kasidit Rattanawong, Aya Satoh, Takashi Okamoto (Dept. Biol. Sci., Tokyo Met. Univ.)</p>
16:30	<p>1pA11 Unique chromatic acclimation in the cyanobacterium <i>Phormidium</i> sp. NIES-4144 <u>Toru Nakata</u><sup>1</sup>, Akihiro Kawamoto<sup>2</sup>, Mutumi Kubushiro<sup>1</sup>, Kaori Ohki<sup>3</sup>, Toshihiko Eki<sup>1</sup>, Genji Kurisu<sup>2</sup>, Yu Hirose<sup>1</sup> (<sup>1</sup>Toyohashi Tech. Dept. of Appl. Chem. and Life Sci., <sup>2</sup>Osaka Univ. Institute for Protein Research, <sup>3</sup>Fukui Pref. Univ. Dept. of Marine Sci. and Tech.)</p>		<p>1pC11 Elucidating the role of MPB2C in cortical microtubule nucleation <u>Yuto Yamazumi</u><sup>1,2</sup>, Noriyoshi Yagi<sup>2</sup>, Masayoshi Nakamura<sup>2</sup> (<sup>1</sup>Sch. Sci., Univ. Nagoya, <sup>2</sup>ITbM, Univ. Nagoya)</p>	<p>1pD11 ③ Monitoring the degradation process and elimination pathway of paternal mitochondria during early zygotic development in rice <u>Hanifah Aini</u><sup>1</sup>, Kasidit Rattanawong<sup>1</sup>, Mari Tanaka<sup>3</sup>, Hiroyuki Tsuji<sup>2,3</sup>, Takashi Okamoto<sup>1</sup> (<sup>1</sup>Dept. Biol. Sci., Tokyo Met. Univ., <sup>2</sup>Biosci. Biotech. Center, Nagoya Univ., <sup>3</sup>Kihara Inst. for Biol. Research., Yokohama City Univ.)</p>
16:45			<p>1pC12 Functional interactions of NIMA-related kinase and microtubule-associated proteins during rhizoid growth of <i>Marchantia polymorpha</i> <u>Hiroyasu Motose</u> (Grad. Sch. Environm., Life, Nat. Sci. &amp; Tech., Okayama Uni.)</p>	<p>1pD12 ③ Paternal allele dependent <i>OsBBMLs</i> expression initiates zygotic development in rice <u>Nargis Akter</u><sup>1</sup>, Kasidit Rattanawong<sup>1</sup>, Aya Satoh<sup>1</sup>, Tezuka Takumi<sup>2</sup>, Yutaka Sato<sup>2</sup>, Takashi Okamoto<sup>1</sup> (<sup>1</sup>Dept. Biol. Sci., Tokyo Met. Univ., <sup>2</sup>Plant Genetics, NIG)</p>

Room E	Room F	Room G	Room H	Room X	Room Y	Room Z	Time
Plant-organism interaction A	Environmental response B/ Environmental stresses	Primary metabolism/Specialized (secondary) metabolism/Plant hormones/Signaling molecules	Development/Morphogenesis				
<p><b>1pE10</b> Systemic responses induced by the root colonization of beneficial fungus <i>Trichoderma</i> in <i>Arabidopsis</i> <u>Ayae Sakai</u><sup>1</sup>, Hisako Yamagata<sup>1</sup>, Keigo Naito<sup>1</sup>, Takaya Tominaga<sup>2</sup>, Shinsuke Ifuku<sup>3</sup>, Hironori Kaminaka<sup>4</sup> (<sup>1</sup>Dept. Agr. Sci., Grad. Sch. Sust. Sci., Tottori Univ., <sup>2</sup>United Grad. Sch. Agr., Tottori Univ., <sup>3</sup>Grad. Sch. Eng., Tottori Univ., <sup>4</sup>Fac. Agr., Tottori Univ.)</p> <p><b>1pE11</b> <b>E</b> The Binding of Ca<sup>2+</sup>-Dependent Protein Kinase to the Suppressor of Potato Late Blight Pathogen Proved by Fluorescence Correlation Spectroscopy (FCS) Inhibits the NADPH Oxidase and Active Oxygen Generation in Potato Cell <u>Naotaka Furnichi</u> (AAAS, USA)</p>	<p><b>1pF10</b> <b>E</b> Symbiodiniaceae Cells Exhibit High Sensitivity to Low Dose UV-C <u>Alvin Chun Man Kwok</u>, Wayne, Wing Tai Lam, Joseph Tin Yum Wong (Division of Life Science, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong)</p> <p><b>1pF11</b> Molecular Dissection of Ethylene Receptor-Related Histidine Kinases responsible for the regulation of B3-RAF/SnRK2-mediated ABA signaling using the moss <i>Physcomitrium patens</i> <u>Taketo Sasaki</u>, Tsukasa Toriyama, Rahul Sk, Izumi Yotsui, Teruaki Taji, Yoichi Sakata (Dept. of Biosci., Tokyo Univ. of Agri.)</p> <p><b>1pF12</b> Functional analyses of ethylene receptor-related histidine kinase family in response to osmotic stress and submergence in the moss <i>Physcomitrium patens</i> <u>Marcos Takeshi Miyabe</u><sup>1</sup>, Hiroki Matsumura<sup>1</sup>, Tsukasa Toriyama<sup>1</sup>, Daisuke Takezawa<sup>2</sup>, Izumi Yotsui<sup>1</sup>, Teruaki Taji<sup>1</sup>, Yoichi Sakata<sup>1</sup> (<sup>1</sup>Dept. of Biosci., Tokyo Univ. of Agri., <sup>2</sup>Grad. Sch. Sci. Eng., Saitama Univ.)</p>	<p><b>1pG10</b> Comparative VOC Profiling in Soil Obtained from Six Soybean Fields through Two Years <u>Suzuka Matsuki</u><sup>1</sup>, Hikari Kuchikata<sup>1</sup>, Naoto Nihei<sup>2</sup>, Yasunori Ichihashi<sup>3</sup>, Miyako Kusano<sup>4,5,6</sup> (<sup>1</sup>Grad. Sch. Life &amp; Env. Sci., Univ. Tsukuba, <sup>2</sup>Fac. Food Agri. Sci., Fukushima Univ., <sup>3</sup>RIKEN BRC, <sup>4</sup>Life &amp; Env. Sci., Univ. Tsukuba, <sup>5</sup>T-PIRC, Univ. Tsukuba, <sup>6</sup>RIKEN CSRS)</p> <p><b>1pG11</b> Molecular Insights into the Herbicidal Action of Coumarin Derivatives on Seed Germination <u>Kazuma Fukuda</u><sup>1</sup>, Michinari Yoshida<sup>1</sup>, Sota Hyakutake<sup>1</sup>, Taiga Oishi<sup>1</sup>, Mizuho Koga<sup>1</sup>, Hyuga Matsuura<sup>1</sup>, Chisato Egami<sup>1</sup>, Ryusei Ito<sup>1</sup>, Kosei Tsukahara<sup>1</sup>, Takako Yoshida<sup>2</sup>, Noriko Ryuda<sup>2</sup>, Yukio Nagano<sup>2</sup>, Kazuhide Matsutaka<sup>1</sup> (<sup>1</sup>Saga Prefectural Chienkan High School, <sup>2</sup>Saga University)</p>	<p><b>1pH10</b> <b>E</b> Identification and characterization of target genes for an <i>Arabidopsis</i> bHLH transcription factor LRL1 in root hairs <u>Shahzad Haghiri</u>, Takashi Aoyama (Dep. Biophysics, Inst. ICR, Kyoto Univ.)</p> <p><b>1pH11</b> Development of a micro-chambered hydroponics system, MiCHy, for accessible and versatile microscopic imaging of roots <u>Hiromasa Shikata</u><sup>1,2,4</sup>, Yoshikatsu Sato<sup>2,3</sup>, Claus Schwegheimer<sup>4</sup> (<sup>1</sup>Div. Plant Environ. Responses, NIBB, <sup>2</sup>ITbM, Nagoya Univ., <sup>3</sup>Grad. Sch. Sci., Nagoya Univ., <sup>4</sup>Plant Sys. Biol., TUM)</p> <p><b>1pH12</b> Developmental convergent evolution of root phenotypic plasticity in two amphibious plants <u>Tomo Sato</u><sup>1</sup>, Hiroyuki Koga<sup>2</sup>, Hirokazu Tsukaya<sup>2</sup> (<sup>1</sup>Fac. of Sci., Univ. Tokyo, <sup>2</sup>Grad. Sch. Sci., Univ. Tokyo)</p>	Symposium S04 [English] Genetic transfer technology for plants and its associated sciences (14:00–17:00)	Symposium S05 Creating new molecules to manipulate plant functions (14:00–17:00)	Symposium S06 Local and systemic signalling for environmental responses in plants (14:00–17:00)	16:15  16:30  16:45

● Day 2, Mon., March 18, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis	Plant hormones/ Signaling molecules	Organelles/Cytoskeleton/ Membrane trafficking	Reproduction	Plant-organism interaction A
09:00	<p><b>2aA01</b> Evaluating the Oxidation Rate of Reduced Ferredoxin in <i>Arabidopsis thaliana</i> Independent of Photosynthetic Linear Electron Flow: Plausible Activity of Ferredoxin-Dependent Cyclic Electron Flow around Photosystem I <u>Shu Maekawa</u><sup>1</sup>, Miho Ohnishi<sup>1,3</sup>, Shinya Wada<sup>1,3</sup>, Kentaro Ifuku<sup>2,3</sup>, Chikahiro Miyake<sup>1,3</sup> (1Grad. Sch. Agri. Sci. Univ. Kobe, 2Grad. Sch. Agri. Sci. Univ. Kyoto, 3CREST/JST)</p>	<p><b>2aB01</b> Chemical screening for regulators of intracellular auxin dynamics <u>Tsuvoishi Aoyama</u><sup>1</sup>, Masakazu Nambu<sup>1</sup>, Daisuke Kurihara<sup>1,2</sup>, Ayato Sato<sup>1</sup>, Yuichiro Tsuchiya<sup>1</sup>, Yoshikatsu Sato<sup>1,3,4</sup> (1ITbM, Nagoya Univ., 2Inst. Adv. Res., Nagoya Univ., 3Grad. Sch. Sci., Nagoya Univ., 4Res. Cen. Net-Zero. Carb. Soc., Nagoya Univ.)</p>	<p><b>2aC01</b> An attempt to develop a random mutagenesis technology for forward genetic analysis of plant organelle genomes <u>Nanami Kosaka</u><sup>1</sup>, Yoshiki Harada<sup>1</sup>, Issei Nakazato<sup>1</sup>, Miki Okuno<sup>2</sup>, Takehiko Itoh<sup>3</sup>, Nobuhiro Tsutsumi<sup>1</sup>, Shin-ichi Arimura<sup>1</sup> (1Grad. Sch. Agri. and Life Sci., Univ. Tokyo, 2Sch. Med., Univ. Kurume, 3Sch. Life Sci. and Tech., Tokyo Inst. Tech.)</p>	<p><b>2aD01</b> Transcriptional regulatory network for male gametogenesis in the liverwort <i>Marchantia polymorpha</i> <u>Keisuke Inoue</u><sup>1,2</sup>, Kanta Kotani<sup>1</sup>, Sae Anada<sup>1</sup>, Asuka Higo<sup>1</sup>, Shohei Yamaoka<sup>1</sup>, Takashi Araki<sup>1</sup> (1Grad. Sch. Biostudies, Univ. Kyoto, 2Center for Living Systems Information Science (CeLISIS), Univ. Kyoto)</p>	<p><b>2aE01</b> The roles of membrane lipids in the hybrid necrosis in <i>A.thaliana</i> <u>Machiko Watari</u>, Yi Tang Lim, Jinge Wang, Eunyoung Chae (National University of Singapore)</p>
09:15	<p><b>2aA02</b> Lower electron-sink activity in photosynthesis suppressed ferredoxin-dependent cyclic electron flow around PSI in rice <u>Yuri Ohara</u>, Shinya Wada, Chikahiro Miyake (Grad. Sch. Agri. Sci. Univ. Kobe)</p>	<p><b>2aB02</b> Subcellular localization of auxin inactivating enzymes plays a role in auxin homeostasis Tomooki Kubotsu<sup>1</sup>, Kaisei Maruyama<sup>2</sup>, Yunde Zhao<sup>3</sup>, Hiroyuki Kasahara<sup>2,4</sup>, <u>Ken-ichiro Hayashi</u><sup>1</sup> (1Okayama Univ. Sci., 2Grad. Sch. Agric., TAT, 3UC San Diego, 4Riken CSRS)</p>	<p><b>2aC02</b> Autophagy is induced during plant grafting for wound healing Ken-ichi Kurotani<sup>1</sup>, Ryo Tabata<sup>2</sup>, Yaichi Kawakatsu<sup>1</sup>, Ryohei Sugita<sup>3,4</sup>, Daiki Shinozaki<sup>5,6</sup>, <u>Kentaro Okada</u><sup>1</sup>, Koji Okayasu<sup>2</sup>, Moe Mori<sup>2</sup>, Keitaro Tanoi<sup>3</sup>, Kohki Yoshimoto<sup>5</sup>, Michitaka Notaguchi<sup>1,2,7,8</sup> (1Biosci. and Biotec. center, Nagoya Univ., 2Grad. Sch. Bioagri., Nagoya Univ., 3Grad. Sch. Agri. Life Sci., Univ. Tokyo, 4Isotope Fac. Agri. Edu. and Research, Nagoya Univ., 5Dep. Life Sci. Sch. Agri., Meiji Univ., 6Org. Strategic Coordination of Research and Intellectual Properties, Meiji Univ., 7Inst. Trans. Bio-Molecules, Nagoya Univ., 8Dep. Botany, Gra. Sch. Sci., Kyoto Univ.)</p>	<p><b>2aD02</b> Role of male gamete-specific small RNA pathways on spermatogenesis in <i>Marchantia polymorpha</i> <u>Sae Anada</u><sup>1</sup>, Zhao-Jun Pan<sup>2</sup>, Bing-Nan Shen<sup>2</sup>, Kanta Kotani<sup>1</sup>, Asuka Higo<sup>1</sup>, Shohei Yamaoka<sup>1</sup>, Keisuke Inoue<sup>1</sup>, Shih-Shun Lin<sup>2</sup>, Takashi Araki<sup>1</sup> (1Grad. Bio., Univ. Kyoto, 2Inst. Biotech., Univ. National Taiwan)</p>	<p><b>2aE02</b> What happened in cyst nematode-infected tissues? –RNAseq analyses focusing on the ploidy change during nematode infection– <u>Mina Ohtsu</u><sup>1,2</sup> (1Bio. Sci., NAIST, 2JST Sakigake)</p>
09:30	<p><b>2aA03</b> Genetic relationship between PSI cyclic electron transport and thioredoxin system in PSI photoprotection <u>Yuki Okegawa</u>, Wataru Sakamoto (IPSR, Univ. Okayama)</p>	<p><b>2aB03</b> The bHLH transcriptional factor MphYPNOS regulates gemma dormancy in <i>Marchantia polymorpha</i> <u>Nami Yoshimura</u><sup>1</sup>, Mikako Yoshikawa<sup>1</sup>, Arisa Yasuda<sup>2</sup>, Hirotaka Kato<sup>1,3</sup>, Yuuki Sakai<sup>1</sup>, Tetsuro Mimura<sup>4</sup>, Yuki Kondo<sup>3</sup>, Hidehiro Fukaki<sup>1</sup>, Kimitsune Ishizaki<sup>1</sup> (1Grad. Sch. Sci., Kobe Univ., 2Fac. Sci., Kobe Univ., 3Grad. Sch. Sci. Eng., Ehime Univ., 4Fac. Bioenviron. Sci., KUAS)</p>	<p><b>2aC03</b> Characterization of chloroplast damage that initiates chlorophagy induction in Arabidopsis leaves <u>Sakuya Nakamura</u><sup>1</sup>, Daisuke Takagi<sup>2</sup>, Hiroyuki Ishida<sup>3</sup>, Shinya Hagihara<sup>1</sup>, Masanori Izumi<sup>1</sup> (1CSRS, Riken, 2Fac. Agri., Setsunan Univ., 3Grad. Sch. Agri. Sci., Tohoku Univ.)</p>	<p><b>2aD03</b> Single-nucleus RNA-seq analysis of a germline cell-like cell induction system in the liverwort <i>Marchantia polymorpha</i> Tomoaki Kajiwara<sup>1</sup>, <u>Takeru Kumagai</u><sup>2</sup>, Yoshihiro Yoshitake<sup>1</sup>, Megumi Iwano<sup>1</sup>, Shogo Kawamura<sup>1</sup>, Yukiko Yasui<sup>1</sup>, Shohei Yamaoka<sup>1</sup>, Takayuki Kohchi<sup>1</sup> (1Grad. Sch. Biostudies, Kyoto Univ., 2Fac. Agri., Kyoto Univ.)</p>	<p><b>2aE03</b> Turnip mosaic virus improves plant defense against aphids in <i>Arabidopsis halleri</i> <u>Miyabi Otsubo</u>, Hiroshi Kudoh, Mie N. Honjo (CER, Kyoto Univ.)</p>
09:45	<p><b>2aA04</b> Re-evaluation Of Cyclic Electron Transport Around Photosystem I Through Two <i>PGR5</i> Knockout Alleles <u>Ryouhei Kobayashi</u><sup>1</sup>, Hiroshi Yamamoto<sup>1</sup>, Kota Ishibashi<sup>1,2</sup>, Toshiharu Shikanai<sup>1</sup> (1Grad. Sch. Sci., Kyoto Univ., 2Fucul. Life Sci., Kyoto Sangyo Univ.)</p>	<p><b>2aB04</b> Effects of anesthesia on the wound-responsive gene and phytohormone on plants <u>Moca Iwabuchi</u><sup>1</sup>, Sakuya Hirayama<sup>2</sup>, Kyomi Shibata<sup>1</sup>, Emi Yumoto<sup>3</sup>, Koji Miyamoto<sup>1,2</sup>, Ken Yokawa<sup>4</sup>, Masashi Asahina<sup>1,2,3</sup> (1Dept. Biosci., Teikyo Univ., 2Grad. Sch. Sec. &amp; Eng., Teikyo Univ., 3Adv. Instrum. Anal., Teikyo Univ., 4Dept. Eng., Kitami Tech Univ.)</p>	<p><b>2aC04</b> Live-cell imaging analysis for autophagy-related division and transport of chloroplast portion in Arabidopsis leaves <u>Masanori Izumi</u><sup>1,2</sup>, Sakuya Nakamura<sup>1</sup>, Kohei Otomo<sup>3,4,5,6</sup>, Hiroyuki Ishida<sup>7</sup>, Jun Hidema<sup>8</sup>, Tomomi Nemoto<sup>3,4,5</sup>, Shinya Hagihara<sup>1</sup> (1CSRS, RIKEN, 2FRIS, Tohoku Univ., 3ExCELLS, NINS, 4RIES, Hokkaido Univ., 5SOKENDAI, 6Grad. Sch. Med., Juntendo Univ., 7Grad. Sch. Agri. Sci., Tohoku Univ., 8Grad. Sch. Life Sci., Tohoku Univ.)</p>	<p><b>2aD04</b>  Evolutionarily Conserved CKII-mediated Two-component Signaling Regulates Female Germline Specification in <i>Marchantia polymorpha</i> <u>Haonan Bao</u><sup>1</sup>, Rui Sun<sup>1</sup>, Megumi Iwano<sup>1</sup>, Yoshihiro Yoshitake<sup>1</sup>, Shiori Aki<sup>2</sup>, Masaaki Umeda<sup>3</sup>, Ryuichi Nishihama<sup>1,3</sup>, Shohei Yamaoka<sup>1</sup>, Takayuki Kohchi<sup>1</sup> (1Grad. Sch. Biostudies, Kyoto Univ., 2Grad. Sch. Sci. &amp; Tech., NAIST, 3Dept. Appl. Biol. Sci., Fac. Sci. &amp; Tech., Tokyo Univ. of Sci.)</p>	<p><b>2aE04</b> A critical role of trihelix transcription factors in high humidity-mediated suppression of plant immunity Yuka Sakata, Kazuyuki Mise, Yoshitaka Takano, <u>Akira Mine</u> (Grad. Sch. Agr., Kyoto Univ.)</p>

Room F	Room G	Room H	Room X	Room Y	Room Z	Time
Environmental response B/ Environmental stresses	Specialized (secondary) metabolism/Biomembrane/ Ion and solute transport	Development/Morphogenesis	Genome function/Gene regulation			
<p>2aF01 AOD12 plays an important role in osmotolerance of Arabidopsis through the repair of DNA damage induced by osmotic stress <u>Koya Kobayashi</u><sup>1</sup>, <u>Kazuki Kanamori</u><sup>1</sup>, <u>Jun Hidema</u><sup>2</sup>, <u>Toshio Mori</u><sup>3</sup>, <u>Keisuke Tanaka</u><sup>4</sup>, <u>Izumi Yotsui</u><sup>1</sup>, <u>Yoichi Sakata</u><sup>1</sup>, <u>Teruaki Tajiri</u><sup>1</sup> (1Dept. of Biosci., Tokyo Univ. of Agri., 2Graduate School of life science, Tohoku University, 3Medical Genetics Research Center, Nara Medical University, 4Nodai Genome Cent., Tokyo Univ. of Agri.)</p>	<p>2aG01 Analysis of benzyloisoquinoline alkaloid degradation pathway in <i>Coptis Japonica</i> culture cells <u>Amika Takamatsu</u><sup>1</sup>, <u>Shunsuke Kasai</u><sup>1</sup>, <u>Ryosuke Sugiyama</u><sup>1,2</sup>, <u>Yasuyuki Yamada</u><sup>2,3</sup>, <u>Mami Yamazaki</u><sup>1,4</sup> (1Grad. Sch. Pharm. Sci., Chiba Univ., 2JST PRESTO, 3Kobe Pharm. Univ., 4PMSC, Chiba Univ.)</p>	<p>2aH01 Regulatory mechanisms of cuticle formation in <i>Arabidopsis thaliana</i> seedlings <u>Kenji Nagata</u><sup>1</sup>, <u>Ichiro Maekawa</u><sup>2</sup>, <u>Taku Takahashi</u><sup>2</sup>, <u>Mitsutomo Abe</u><sup>1,2</sup> (1Grad. Sch. Arts and Sci., Univ. Tokyo, 2Dept. Integr. Sci., Fac. Arts and Sci., Univ. Tokyo, 3Grad. Sch. Sci., Okayama Univ.)</p>	<p>2aX01 <b>E</b> The Interplay Between DNA Methylation and Lipid Production in Plants <u>Jo-Wei Allison Hsieh</u><sup>1,2</sup>, <u>Kuan-Lin Chen</u><sup>1</sup>, <u>Yu-Chi Liu</u><sup>1</sup>, <u>Chia-Yen Wu</u><sup>1</sup>, <u>Van C. Nguyen</u><sup>2</sup>, <u>Hai Anh Ngo</u><sup>2</sup>, <u>Nguyen M. Linh</u><sup>2</sup>, <u>Kuan-Ting Hsin</u><sup>1</sup>, <u>Yuki Nakamura</u><sup>2,3</sup>, <u>Paoyang Chen</u><sup>1</sup> (1Institute of Plant and Microbial Biology, Academia Sinica, Taipei, Taiwan, 2RIKEN Center for Sustainable Resource Science, Yokohama, Japan, 3Graduate School of Science, The University of Tokyo, Japan)</p>	Symposium S07 [English] Plant and Algal Lipids: How they cope with environment by modifying lipids? (9:00-12:00)	Symposium S08 [English] Survival strategies and its molecular basis of plants through switching life histories (9:00-12:00)	09:00
<p>2aF02 Analysis of tomato SAL1-PAP retrograde signaling pathway via genome editing <u>Shimosuke Kimura</u>, <u>Tomoki Ohtani</u>, <u>Marcos Takeshi Miyabe</u>, <u>Izumi Yotsui</u>, <u>Teruaki Tajiri</u>, <u>Yoichi Sakata</u> (Dept. of Biosci., Tokyo Univ. of Agri.)</p>	<p>2aG02 <b>E</b> Gene expression and metabolite profiles of Brassica plants in response to abiotic and biotic stresses <u>Jemillie Madonna Samaniego de Leon</u>, <u>Shinichiro Komaki</u>, <u>Mutsumi Watanabe</u>, <u>Takayuki Tohge</u> (Grad. Sch. Sci., Tech., NAIST)</p>	<p>2aH02 Understanding Barley Awn Formation through Histone Modification <u>Koki Nakamura</u><sup>1</sup>, <u>Yuichi Kikuchi</u><sup>1</sup>, <u>Mizuho Shiraga</u><sup>2</sup>, <u>Toshihisa Kotake</u><sup>3</sup>, <u>Hiroshi Hisano</u><sup>1,2</sup>, <u>Shin Taketa</u><sup>1,2</sup>, <u>Yoko Ikeda</u><sup>1,2</sup> (1Grad. sch. Env. Life. Sci., Okayama Univ., 2IPSR, Okayama Univ., 3Grad. Sch. Sci. Eng., Saitama Univ.)</p>	<p>2aX02 <b>E</b> Exploration of CpG Methylation in Plant Mitochondrial DNA <u>Yuyang Zhong</u><sup>1</sup>, <u>Miki Okuno</u><sup>2</sup>, <u>Nobuharu Tsutsumi</u><sup>1</sup>, <u>Shin-ichi Arimura</u><sup>1</sup> (1Grad. Sch. of Agri., Univ. Tokyo, 2Kurume Univ. Sch. of Med.)</p>			09:15
<p>2aF03 Genetic analysis of <i>OSMOS</i> locus contributing to the variation in osmotolerance of <i>Arabidopsis</i> <u>Yusuke Murakoshi</u><sup>1</sup>, <u>Kosuke Banba</u><sup>1</sup>, <u>Takahiro Hirano</u><sup>1</sup>, <u>Hirotake Ariga</u><sup>2</sup>, <u>Keisuke Tanaka</u><sup>3</sup>, <u>Izumi Yotsui</u><sup>1</sup>, <u>Yoichi Sakata</u><sup>1</sup>, <u>Teruaki Tajiri</u><sup>1</sup> (1Dept. of Biosci., Tokyo Univ. of Agri., 2Res. Cent. of Gen. Res., NARO, 3Nodai Genome Cent., Tokyo Univ. of Agri.)</p>	<p>2aG03 <b>E</b> Comparative Analysis on Secondary Metabolism in different tissues of Subspecies of <i>Oryzasativa</i> <u>Tzje Choong Isaac Choo</u>, <u>Tomoki Kobayashi</u>, <u>Mutsumi Watanabe</u>, <u>Takayuki Tohge</u> (Grad. Sch. Sci., Tech., NAIST)</p>	<p>2aH03 Functions of the phosphorylated pathway of <i>Marchantia polymorpha</i> <u>Masami Y. Hirai</u><sup>1,2</sup>, <u>Mengyao Wang</u><sup>1,2</sup>, <u>Hiromitsu Tabeta</u><sup>1,3,4</sup>, <u>Kinuka Ohtaka</u><sup>1,2,5</sup>, <u>Ayuko Kuwahara</u><sup>1</sup>, <u>Ryuichi Nishihama</u><sup>6,7</sup>, <u>Toshiki Ishikawa</u><sup>8</sup>, <u>Kiminori Toyooka</u><sup>1</sup>, <u>Mayuko Sato</u><sup>1</sup>, <u>Mayumi Wakazaki</u><sup>1</sup>, <u>Hirokichi Akashi</u><sup>1</sup>, <u>Hiroshi Tsugawa</u><sup>1,9</sup>, <u>Tsubasa Shoji</u><sup>1</sup>, <u>Yoza Okazaki</u><sup>1,10</sup>, <u>Keisuke Yoshida</u><sup>11</sup>, <u>Ryoichi Sato</u><sup>1</sup>, <u>Ali Ferjani</u><sup>4</sup>, <u>Takayuki Kohchi</u><sup>9</sup> (1RIKEN CSRS, 2Grad. Sch. Bioagric. Sci., Nagoya Univ., 3Grad. Sch. Arts &amp; Sci., Univ. Tokyo, 4Dept. Bio., Tokyo Gakugei Univ., 5Dept. Chem. &amp; Bio., Japan Women's Univ., 6Grad. Sch. Biostudies, Kyoto Univ., 7Dept. Applied Bio. Sci., Tokyo Univ. Sci., 8Grad. Sch. Sci. &amp; Eng., Saitama Uni., 9Dept. Bio. &amp; Life Sci., Tokyo Univ. Agri. Tech., 10Grad. Sch. Bioresource, Mie Univ., 11Ins. Innovative Research., Tokyo Ins. Tech.)</p>	<p>2aX03 Analysis Of The Feedback Regulation Between Flavonoids And Dicer DCL4 Activity On Bicolor Traits Of Dahlia And Petunia <u>Kazunori Kuriyama</u><sup>1</sup>, <u>Sho Ohno</u><sup>2</sup>, <u>Midori Tabara</u><sup>3</sup>, <u>Toshiyuki Fukuhara</u><sup>1</sup> (1Tokyo Univ. of Agri. and Tech., 2Kyoto Univ., 3Ritsumeikan Univ.)</p>			09:30
<p>2aF04 Mitochondrial RNA editing is involved in environmental stress tolerance in Arabidopsis <u>Riho Sawai</u><sup>1</sup>, <u>Koki Misawa</u><sup>1</sup>, <u>Fumiaki Asahi</u><sup>1</sup>, <u>Akiho Yamazaki</u><sup>1</sup>, <u>Mizuki Takenaka</u><sup>2</sup>, <u>Issei Nakazato</u><sup>3</sup>, <u>Shin-ichi Arimura</u><sup>3</sup>, <u>Izumi Yotsui</u><sup>1</sup>, <u>Teruaki Tajiri</u><sup>1</sup>, <u>Yoichi Sakata</u><sup>1</sup> (1Graduate School of Life Sciences, Tokyo Univ. of Agriculture, 2Graduate School of Science, Kyoto University, 3Graduate School of Agricultural and Life Sciences, The University of Tokyo)</p>	<p>2aG04 <b>E</b> Cross-species wide functional analysis of <i>MYB</i> transcriptional regulators in the phenylpropanoid pathway <u>Maria Kenosis Emmanuelle Lachica</u>, <u>Shinichiro Komaki</u>, <u>Mutsumi Watanabe</u>, <u>Takayuki Tohge</u> (Nara Institute of Science and Technology)</p>	<p>2aH04 Abscisic acid signaling controls density of primary plasmodesmata in the moss <i>Physcomitrium patens</i> <u>Chiyo Jinno</u><sup>1</sup>, <u>Ken Fujisaki</u><sup>2</sup>, <u>Izumi Yotsui</u><sup>2</sup>, <u>Motoki Ouchi</u><sup>3</sup>, <u>Satoshi Naramoto</u><sup>4</sup>, <u>Daisuke Takezawa</u><sup>3</sup>, <u>Yoichi Sakata</u><sup>2</sup>, <u>Tomomichi Fujita</u><sup>4</sup> (1Grad. Sch. Life Sci., Univ. Hokkaido, 2Dept. Biosci., Tokyo Univ. Agric., 3Grad. Sch. Sci. Engg., Saitama Univ., 4Fac. Sci., Hokkaido Univ.)</p>	<p>2aX04 Analysis of AGS2 RNA Helicase Implicated in the Post-transcriptional Regulation of Mitochondria mRNA <u>Haruko Kaita</u><sup>1,2</sup>, <u>June-Sik Kim</u><sup>2,3</sup>, <u>Akihito Mamiya</u><sup>4,5</sup>, <u>Munetaka Sugiyama</u><sup>2</sup>, <u>Keiichi Mochida</u><sup>3,6</sup>, <u>Takashi Hirayama</u><sup>1,2</sup> (1Grad. Sch. Env. Life, Nat, Sci &amp; Tech., Okayama Univ., 2IPSR., Okayama Univ., 3CSRS., RIKEN, 4Grad. Sch. Sci., Kobe Univ., 5Grad. Sch. Sci., Univ. Tokyo, 6Sch. Info. &amp; Data Sci., Nagasaki Univ)</p>			09:45

● Day 2, Mon., March 18, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis	Plant hormones/ Signaling molecules	Organelles/Cytoskeleton/ Membrane trafficking	Reproduction	Plant-organism interaction A
10:00	<p>2aA05 Functional analysis of the cysteine residue in PGRL1 protein in the green alga <i>Chlamydomonas reinhardtii</i> <u>Hiroko Takahashi</u><sup>1</sup>, Atsuko Isu<sup>2</sup>, Keisuke Yoshida<sup>2</sup>, Ken-ichi Wakabayashi<sup>2,3</sup>, Toru Hisabori<sup>4</sup>, Yoshitaka Nishiyama<sup>1</sup> (<sup>1</sup>Graduate School of Science and Engineering, Saitama University, <sup>2</sup>Laboratory for Chemistry and Life Science, Institute of Innovative Research, Tokyo Institute of Technology, <sup>3</sup>Faculty of Life Sciences, Kyoto Sangyo University, <sup>4</sup>International Research Frontiers Initiative, Tokyo Institute of Technology)</p>	<p>2aB05 Control of devernalization using small compounds (DeVerNalizer: DVRs) with common structures <u>Nana Otsuka</u><sup>1</sup>, Hikaru Sawa<sup>1</sup>, Ayato Sato<sup>2</sup>, Makoto Shirakawa<sup>1</sup>, Toshiro Ito<sup>1</sup> (<sup>1</sup>Grad. Sch. Sci and Tech., NAIST, <sup>2</sup>WPI-ITbM, Nagoya Univ.)</p>	<p>2aC05 <b>E</b> Involvement of Plasma Membrane Proteolipid 3 (PMP3) Superfamily Group III-MFP1b in Regulating Cellulosic Cell Wall in Dinoflagellates <u>Fang Zhang</u><sup>1</sup>, Alvin Chun Man Kwok<sup>1</sup>, Joseph Tin Yum Wong<sup>1,2</sup> (<sup>1</sup>Division of Life Science, Hong Kong University of Science and Technology (HKUST), <sup>2</sup>State Key Laboratory of Molecular Neuroscience)</p>	<p>2aD05 <b>E</b> A novel <i>Arabidopsis thaliana</i> protein, POT1, plays an important role in maintaining integrity of pollen tubes <u>Natalia Julia Rzepecka</u><sup>1</sup>, Yoko Ito<sup>2</sup>, Emi Ito<sup>2</sup>, Tomohiro Uemura<sup>1</sup> (<sup>1</sup>Grad. Sch. of Humanities and Sciences, Ochanomizu Univ., <sup>2</sup>Institute for Human Life Science, Ochanomizu Univ.)</p>	<p>2aE05 High humidity-triggered plant abscisic acid inactivation restricts bacterial water acquisition <u>Shigetaka Yasuda</u><sup>1</sup>, Taishi Hirase<sup>1</sup>, Haruka Ishizaki<sup>1</sup>, Ryuji Suzuki<sup>2</sup>, Akihisa Shinozawa<sup>3,4</sup>, Yuanjie Weng<sup>5</sup>, Izumi Yotsui<sup>3</sup>, Masanori Okamoto<sup>5,6</sup>, Masatsugu Toyota<sup>2</sup>, Yusuke Saijo<sup>1</sup> (<sup>1</sup>Div. Biol. Sci., NAIST, <sup>2</sup>Grad. Sch. Sci. Eng., Saitama Univ., <sup>3</sup>Dep. Biosci., Tokyo Univ. Agric., <sup>4</sup>NGRC, Tokyo Univ. Agric., <sup>5</sup>CBRE, Utsunomiya Univ., <sup>6</sup>CSRS, RIKEN)</p>
10:15	<p>2aA06 Cyclic electron flow around photosystem I involved in the prevention of photoinhibition of photosystem I in <i>C<sub>4</sub>Flaveria bidentis</i> <u>Asuka Nakamura</u><sup>1</sup>, Takako Ogawa<sup>2</sup>, Atsushi Matsumura<sup>1</sup>, Yuri Munekage<sup>1</sup> (<sup>1</sup>Grad. Sch. Sci Tech., Univ. Kwansai Gakuin, <sup>2</sup>Grad. Sch. Sci Tech., Univ. Saitama)</p>	<p>2aB06 Drug discovery for designing an INO1 antagonist to decrease phytic acid content in rice <u>Tatsuki Akabane</u><sup>1</sup>, Satoshi Kamino<sup>2</sup>, Kazuyoshi Ikeda<sup>3,4</sup>, Tomoki Yonezawa<sup>4</sup>, Etsuko Katoh<sup>5</sup>, Naoki Hirotsu<sup>1</sup> (<sup>1</sup>Grad. Sch. Life Sci., Toyo Univ., <sup>2</sup>CRYO SHIP Inc., <sup>3</sup>RCCS, RIKEN, <sup>4</sup>Fac. of Pharm., Keio Univ., <sup>5</sup>Fac. of Food Nutr. Sci., Toyo Univ.)</p>	<p>2aC06 A novel microtubule structure re-organized during oil body formation in <i>Marchantia polymorpha</i> <u>Takehiko Kanazawa</u><sup>1,2</sup>, Takashi Ueda<sup>1</sup> (<sup>1</sup>Dev. of Cellular Dynamics, NIBB, <sup>2</sup>Sch. Life Sci., SOKENDAI)</p>	<p>2aD06 Irradiation of blue light induce pollen tube rupture in various flowering plants <u>Naoya Sugi</u><sup>1</sup>, Daichi Susaki<sup>1</sup>, Yoko Mizuta<sup>2</sup>, Tetsu Kinoshita<sup>1</sup>, Daisuke Maruyama<sup>1</sup> (<sup>1</sup>KIBR, Yokohama City Univ., <sup>2</sup>IAR, WPI-ITbM, Nagoya Univ.)</p>	<p>2aE06 <b>E</b> Spatiotemporal dissection of camalexin functions in plant-bacterial interactions Saki Nakakoji<sup>1</sup>, Haruka Tachibana<sup>1</sup>, Kaoru Nakagawa<sup>2</sup>, Koji Okuda<sup>2</sup>, Eriko Betsuyaku<sup>1</sup>, Mizuki Iwamoto<sup>3</sup>, Shunsuke Masuo<sup>4,5</sup>, <u>Shigeyuki Betsuyaku</u><sup>1</sup> (<sup>1</sup>Fac. Agr., Ryukoku Univ., <sup>2</sup>Shimadzu Corp., <sup>3</sup>Grad. Sch. Life &amp; Env. Sci., Univ. Tsukuba, <sup>4</sup>Fac. Life &amp; Env. Sci., Univ. Tsukuba, <sup>5</sup>Microbiol. Res. Ctr. Sust., Univ. Tsukuba)</p>
10:30	<p>2aA07 Electron and proton transfer reactions at the secondary quinone electron acceptor Q<sub>B</sub> in photosystem II monitored by time-resolved infrared spectroscopy <u>Yuki Kato</u>, Honami Ito, Takumi Noguchi (Grad. Sch. Sci, Nagoya Univ.)</p>	<p>2aB07 <b>E</b> Prohormones Induces Species-Specific Aliphatic Glucosinolate Accumulation and Its Related Gene Expression in <i>Brassica juncea</i> Var. <i>Cernua</i> and <i>Brassica Rapa</i> <u>Mahina Sharipova</u> (T-LSI, Grad. Sch. Sci. and Tech, Univ. Tsukuba)</p>	<p>2aC07 MAIGO3 mediates capture-and-release of ER exit sites by Golgi stacks in Arabidopsis <u>Junpei Takagi</u><sup>1</sup>, Hideyuki Takahashi<sup>2</sup>, Minoru Nagano<sup>3</sup>, Kenta C. Moriya<sup>4</sup>, Yoichiro Fukao<sup>5</sup>, Haruko Ueda<sup>6</sup>, Kentaro Tamura<sup>6</sup>, Tomoo Shimada<sup>2</sup>, Ikuko Hara-Nishimura<sup>8</sup> (<sup>1</sup>Fac. Sci. and Grad. Sch. Life Sci., Hokkaido Univ., <sup>2</sup>Grad. Sch. Sci., Kyoto Univ., <sup>3</sup>Col. Life Sci., Ritsumeikan Univ., <sup>4</sup>CER, Kyoto Univ., <sup>5</sup>Fac. Sci. and Eng., Konan Univ., <sup>6</sup>Dept. Environ. Life Sci., Univ. of Shizuoka)</p>	<p>2aD07 Analysis of pollen tube acceptance and rejection in <i>Arabidopsis</i> species <u>Takuya Nagae</u><sup>1</sup>, Sota Fujii<sup>1,2</sup> (<sup>1</sup>Grad. Sch. Agric Life Sci., Univ. Tokyo, <sup>2</sup>SunRiSE)</p>	<p>2aE07 Elucidation of the function of CK-like compounds produced by <i>fas</i> operon <u>Mika Yoshino</u><sup>1</sup>, Surjana Alicia<sup>1</sup>, Mikiko Kojima<sup>2</sup>, Kensuke Kouki<sup>1</sup>, Toshio Nishikawa<sup>1</sup>, Hitoshi Sakakibara<sup>1,2</sup> (<sup>1</sup>Grad. Sch. Bio. Sci., Nagoya Univ., <sup>2</sup>RIKEN CSRS)</p>
10:45	<p>2aA08 Reduced maximum quantum yield of photosystem II in <i>Arabidopsis pifi</i> mutants is associated with chloroplast NDH complex activity Minami Murai<sup>1</sup>, Ayaka Kimura<sup>1</sup>, Ko Imaizumi<sup>1</sup>, Keisuke Yoshida<sup>2</sup>, Yufen Che<sup>3</sup>, Noriko Ishikawa<sup>1</sup>, Toru Hisabori<sup>2,4</sup>, <u>Kaori Kohzuma</u><sup>1</sup>, Kentaro Ifuku<sup>1</sup> (<sup>1</sup>Grad. Sch. Agric., Kyoto Univ., <sup>2</sup>CLS, Tokyo Tech, <sup>3</sup>Grad. Sch. Biostudies, Kyoto Univ., <sup>4</sup>IRFI, Tokyo Tech)</p>		<p>2aC08 Analysis of protein-protein interaction regulating pollen tube integrity <u>Mika Tsugane</u><sup>1</sup>, Keita Muro<sup>2</sup>, Akira Nozawa<sup>3</sup>, Tatsuya Sawasaki<sup>4</sup>, Takashi Ueda<sup>1,4</sup>, Kazuo Ebine<sup>1,4</sup> (<sup>1</sup>NIBB, <sup>2</sup>Osaka Metropolitan Univ., <sup>3</sup>Ehime Univ., <sup>4</sup>SOKENDAI)</p>	<p>2aD08 Three-dimensional imaging of fertilized eggs and early embryogenesis in rice Moeno Tezuka, Takashi Okamoto, <u>Atsuko Kinoshita</u> (Tokyo Metropolitan Univ.)</p>	<p>2aE08 <b>E</b> Constitutive expression of a phytopathogenic ascomycete-associated gene tends to suppress infection of <i>Colletotrichum higginsianum</i> Ryushin Yamaguchi<sup>1</sup>, Arisa Kuramoto<sup>1</sup>, Koh Aoki<sup>2</sup>, <u>Avako Tsushima</u><sup>2</sup> (<sup>1</sup>Coll. Life Environ. Sci., Osaka Pref. Univ., <sup>2</sup>Grad. Sch. Agric., Osaka Metro. Univ.)</p>
11:00	<p>2aA09 [Cancelled]</p>		<p>2aC09 Analysis of PICALM and VAMP72 members in Arabidopsis <u>Kazuo Ebine</u><sup>1,2</sup>, Masaru Fujimoto<sup>3</sup>, Keita Muro<sup>4</sup>, Hidenori Takeuchi<sup>5</sup>, Akira Nozawa<sup>6</sup>, Anna Tode<sup>7</sup>, Tomohiro Uemura<sup>7</sup>, Tatsuya Sawasaki<sup>4</sup>, Tetsuya Higashiyama<sup>8</sup>, Takashi Ueda<sup>1,2</sup> (<sup>1</sup>Div. Cellular Dynamics, NIBB, <sup>2</sup>Grad. Inst. for Adv. Stud., SOKENDAI, <sup>3</sup>Grad. Sch. Agri. and Life Sci., The Univ. Tokyo, <sup>4</sup>Grad. Sch. Agri., Osaka Metropolitan Univ., <sup>5</sup>ITBM, Nagoya Univ., <sup>6</sup>Proteo-Science Center, Ehime Univ., <sup>7</sup>Grad. Sch. of Humanities and Sciences, Ochanomizu Univ., <sup>8</sup>Grad. Sch. Sci., The Univ. Tokyo)</p>	<p>2aD09 Petal abscission is promoted by jasmonic acid-induced autophagy at Arabidopsis petal bases <u>Yuki Furuta</u>, Nobutoshi Yamaguchi, Toshiro Ito (Grad. Sch. Sci and Tech., NAIST)</p>	<p>2aE09 Rewiring of pattern recognition receptor-mediated immunity under phosphate deficiency <u>Natsuki Tsuchida</u><sup>1</sup>, Kota Yamashita<sup>2</sup>, Taishi Umezawa<sup>2</sup>, Yusuke Saijo<sup>1</sup> (<sup>1</sup>Grad. Sch. Sci and Tech., NAIST, <sup>2</sup>BASE, Tokyo Univ. Agric. Tech.)</p>



Room F	Room G	Room H	Room X	Room Y	Room Z	Time
Environmental response B/ Environmental stresses	Specialized (secondary) metabolism/Biomembrane/ Ion and solute transport	Development/Morphogenesis	Genome function/Gene regulation			
<p>2aF05 Elucidation of mechanisms how Arabidopsis B3-RAF kinases activate subclass III SnRK2 in response to ABA and osmotic stress <u>Koki Nakayama</u><sup>1</sup>, Naoya Kohara<sup>1</sup>, Izumi Yotsui<sup>1</sup>, Teruaki Tajiri<sup>1</sup>, Sotaro Katagiri<sup>2</sup>, Taishi Umezawa<sup>2</sup>, Daisuke Takezawa<sup>3</sup>, Yoichi Sakata<sup>1</sup> (<sup>1</sup>Dept. of Biosci., Tokyo Univ. of Agri., <sup>2</sup>BASE, Tokyo University of Agriculture and Technology, <sup>3</sup>Grad. Sch. Sci and Eng., Saitama Univ.)</p>	<p>2aG05 Functional analysis of a putative regulator of soyasaponin biosynthesis in soybean Haruka Morita<sup>1</sup>, Misako Kitamura<sup>1</sup>, Yuhei Okamoto<sup>1</sup>, Keita Tamura<sup>2</sup>, Hidemasa Bono<sup>2,3</sup>, Toshiya Muranaka<sup>1,4</sup>, <u>Hikaru Seki</u><sup>1,4</sup> (<sup>1</sup>Dept. of Biotechnol., Grad. Sch. of Eng., Osaka Univ., <sup>2</sup>Genome Editing Innovation Center, Hiroshima Univ., <sup>3</sup>Grad. Sch. Integ. Sci. Life, Hiroshima Univ., <sup>4</sup>Institute for Open and Transdisciplinary Research Initiatives, Osaka Univ.)</p>	<p>2aH05 ABA converts stem cell fate by substantiating a tradeoff between cell polarity, growth and cell cycle progression and abiotic stress responses in the moss <i>Physcomitrium patens</i> Marcel Beier<sup>1,2</sup>, Chiyo Jinno<sup>3</sup>, Akihiko Hiroguchi<sup>1</sup>, Natsumi Noda<sup>1</sup>, Kohei Nakamura<sup>3</sup>, Yutaka Suzuki<sup>4</sup>, <u>Tomomichi Fujita</u><sup>1</sup> (<sup>1</sup>Fac. Sci., Hokkaido Univ., <sup>2</sup>Inst. Adv. Higher Edu., Hokkaido Univ., <sup>3</sup>Grad. Sch. Life Sci., Hokkaido Univ., <sup>4</sup>Grad. Sch. Front. Sci., Univ. Tokyo)</p>	<p>2aX05 Involvement of the deadenylases AtCAF1i/k in shoot regeneration <u>Toshihiro Arai</u><sup>1</sup>, Sota Kurachi<sup>2</sup>, Kosuke Kawai<sup>2</sup>, Riko Imahori<sup>2</sup>, Yukako Chiba<sup>2,3</sup>, Misato Ohtani<sup>1</sup> (<sup>1</sup>Grad. Sch. Frontier Sci., Univ. Tokyo, <sup>2</sup>Grad. Sch. Life Sci., Hokkaido Univ., <sup>3</sup>Fac. Sci., Hokkaido Univ.)</p>	Symposium S07 [English] Plant and Algal Lipids: How they cope with environment by modifying lipids? (9:00–12:00)	Symposium S08 [English] Survival strategies and its molecular basis of plants through switching life histories (9:00–12:00)	10:00
<p>2aF06 Genetic analyses of short-term heat tolerance in Arabidopsis <u>Mire Yanagihara</u><sup>1</sup>, Mao Ueki<sup>1</sup>, Takamasa Suzuki<sup>2</sup>, Izumi Yotsui<sup>1</sup>, Yoichi Sakata<sup>1</sup>, Teruaki Tajiri<sup>1</sup> (<sup>1</sup>Dept. of Biosci., Tokyo Univ. of Agri., <sup>2</sup>Dept. of Biol. Chem., Chubu Univ.)</p>	<p>2aG06 Screening and biochemical analysis of soybean transporter genes involved in isoflavone secretion into the rhizosphere <u>Hinako Matsuda</u><sup>1</sup>, Ryosuke Munakata<sup>1,2</sup>, Masaru Nakayasu<sup>1</sup>, Shinichi Yamazaki<sup>3,4</sup>, Yuichi Aoki<sup>5</sup>, Atsushi J. Nagano<sup>5,6</sup>, Kazufumi Yazaki<sup>1</sup>, Akifumi Sugiyama<sup>1</sup> (<sup>1</sup>RISH, Kyoto Univ., <sup>2</sup>JST PRESTO, <sup>3</sup>RIKEN BRC, <sup>4</sup>ToMMo, Tohoku Univ., <sup>5</sup>Fac. Agric., Ryukoku Univ., <sup>6</sup>IAB, Keio Univ.)</p>	<p>2aH06 <b>E</b> Plant PI-PLC pathway poses novel effect toward vacuole morphology thus affect cell polarity and asymmetrical cell division <u>Haolin Zong</u><sup>1</sup>, Alisa Vyacheslavova<sup>1</sup>, Tomomichi Fujita<sup>2</sup> (<sup>1</sup>Doctoral course student/ Grad sch Life Sci., Hokkaido University, Kita10 Nishi8, Kita-ku, Sapporo 060-0810, Japan, <sup>2</sup>Faculty of Science, Hokkaido University, Kita10 Nishi8, Kita-ku, Sapporo 060-0810, 060-0810 Japan)</p>	<p>2aX06 Analysis of AT–AC-type splicing in <i>droll</i> suppressors <u>Takamasa Suzuki</u>, Tomoko Niwa, Gaiki Ono, Daisuke Aramaki, Yuuma Ito, Yuriko Inami, Itsuki Inoue (Col. Biosci. Biotech., Chubu Univ.)</p>			10:15
<p>2aF07 Genetic and RNAseq analyses of <i>sensitive to long term heat1 (slol1)</i> mutant of Arabidopsis <u>Ryo Yamaguchi</u><sup>1</sup>, Akito Hosoi<sup>2</sup>, Keisuke Tanaka<sup>2</sup>, Izumi Yotsui<sup>1</sup>, Yoichi Sakata<sup>1</sup>, Teruaki Tajiri<sup>1</sup> (<sup>1</sup>Dept. of Biosci., Tokyo Univ. of Agri., <sup>2</sup>Nodai Genome Cent., Tokyo Univ. of Agri.)</p>	<p>2aG07 Characterization of polyphenol oxidases coordinately expressed with shikonin production in <i>Lithospermum erythrorhizon</i> <u>Kohei Nakanishi</u><sup>1</sup>, Yuki Takano<sup>1</sup>, Kyoko Yamamoto<sup>1</sup>, Yuki Matsuda<sup>2</sup>, Kanako Sasaki<sup>1</sup>, Kazuaki Ohara<sup>1</sup>, Takuji Ichino<sup>1,3</sup>, Kanade Tatsumi<sup>1</sup>, Hao Li<sup>1</sup>, Ryosuke Munakata<sup>1</sup>, Keishi Osakabe<sup>4</sup>, Koichiro Shimomura<sup>5</sup>, Akifumi Sugiyama<sup>1</sup>, Kojiro Takanashi<sup>2</sup>, Kazufumi Yazaki<sup>1</sup> (<sup>1</sup>RISH, Kyoto Univ., <sup>2</sup>Grad. Sch. Sci. Tech., Shinshyu Univ., <sup>3</sup>Kobe Pharm. Univ., <sup>4</sup>Fac. Biosci. Bioind., Tokushima Univ., <sup>5</sup>Grad. Sch. Life Sci., Toyo Univ.)</p>	<p>2aH07 Live-imaging of <i>Marchantia</i> zygote to understand the evolution of axis formation <u>Yusuke Kimata</u><sup>1</sup>, Akane Fujimori<sup>2</sup>, Sohta Nakamura<sup>1</sup>, Yosuke Okamura<sup>3</sup>, Minako Ueda<sup>1</sup> (<sup>1</sup>Grad. Sch. LifeSci., Tohoku Univ., <sup>2</sup>Fac. Sci., Tohoku Univ., <sup>3</sup>Sch. Eng., Tokai Univ.)</p>	<p>2aX07 Arabidopsis SD5/DROL1 protein, a subunit of U5 snRNP, regulates nutrient response through pre-mRNA splicing and jasmonic acid signaling <u>Kodai Ishibashi</u><sup>1</sup>, Toshihiro Arai<sup>1</sup>, Takeshi Yoshizumi<sup>2</sup>, Yukio Kurihara<sup>2,3</sup>, Takashi Kuromori<sup>2</sup>, Zofia Szweykowska-Kulińska<sup>4</sup>, Artur Jarmolowski<sup>4</sup>, Takashi Hirayama<sup>5</sup>, Minami Matsui<sup>2</sup>, Misato Ohtani<sup>1,2</sup> (<sup>1</sup>Grad. Sch. Front. Sci., Univ. Tokyo, <sup>2</sup>RIKEN, CSRS, <sup>3</sup>Grad. Sch. Art. Sci., Univ. Tokyo, <sup>4</sup>IBMiB, Adam Mickiewicz Univ., <sup>5</sup>Institute of Plant Science and Resources, Okayama Univ)</p>			10:30
<p>2aF08 Loss-of-function of <i>SALT</i> gene improves salt tolerance in <i>Arabidopsis thaliana</i> <u>Takuma Kajino</u><sup>1</sup>, Kaori Uchiyama<sup>1</sup>, Yoshihiro Hase<sup>3</sup>, Tomoaki Horie<sup>4</sup>, Hirota Ariga<sup>2</sup>, Izumi Yotsui<sup>1</sup>, Yoichi Sakata<sup>1</sup>, Teruaki Tajiri<sup>1</sup> (<sup>1</sup>Dept. of Biosci., Tokyo Univ. of Agri., <sup>2</sup>Res. Cent. of Gen. Res., NARO, <sup>3</sup>Takasaki Advanced Radiation Research Institute, QST, <sup>4</sup>Div. of Applied Biology, Shinshu Univ.)</p>	<p>2aG08 Shikonin-containing granules secreted from <i>Lithospermum erythrorhizon</i> cultured cells are covered with arabinogalactan protein and embedded in pectin matrix <u>Ken Matsuoka</u><sup>1</sup>, Takuji Ichino<sup>2,3</sup>, Kohei Nakanishi<sup>2</sup>, Kazufumi Yazaki<sup>2</sup> (<sup>1</sup>Fac. Agr., Kyushu Univ., <sup>2</sup>RISH, Kyoto Univ., <sup>3</sup>Kobe Pharm. Univ.)</p>	<p>2aH08 Spontaneous and stress-triggered spatiotemporal Ca<sup>2+</sup> dynamics in <i>Marchantia polymorpha</i> <u>Kazuyuki Kuchitsu</u>, Toru Ikeuchi, Erina Seno, Kenshiro Watanabe, Tomoaki Machino, Kayo Kamiya, Takafumi Hashimoto, Shoko Tsuboyama, Hana Kojima, Yuto Yamashita, Kenji Hashimoto (Dept. Appl. Biol. Sci., Tokyo Univ. of Science)</p>	<p>2aX08 Analysis of a feature that possibly related to translational function in tRNA modification-deficient <i>Arabidopsis</i> mutant <u>Yumi Nakai</u> (Dept. of Biochemistry, Osaka Medical and Pharmaceutical University)</p>			10:45
<p>2aF09 Regulation of stomatal closure by TCA cycle metabolites in grapevine <u>Yoshiharu Mimata</u><sup>1</sup>, Ruhai Gong<sup>2</sup>, Xuanxuan Pei<sup>1</sup>, Wenxiu Ye<sup>1</sup> (<sup>1</sup>IAAS, Peking Univ., <sup>2</sup>College of Horticulture, Shanxi Agricultural Univ.)</p>	<p>2aG09 Identification of critical region required for polar localization and trafficking of a Mn transporter OsNramp5 in rice <u>Noriyuki Konishi</u>, Jian Feng Ma (IPSR Okayama Univ)</p>	<p>2aH09 The Role of Auxin in Cell Polarity Establishment and Organ Morphogenesis in Lateral Root Primordium Formation in <i>Arabidopsis thaliana</i> <u>Sanae Kaneta</u>, Tatsuo Kakimoto (Grad. Sch. Sci., Osaka Univ.)</p>	<p>2aX09 <b>E</b> The regulating miRNA-RISC loading and post-translational AGO1 regulation in gene silencing suppression <u>Shih-Shun Lin</u> (Institute of Biotechnology, National Taiwan University)</p>			11:00

● Day 2, Mon., March 18, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis	Plant hormones/ Signaling molecules	Organelles/Cytoskeleton/ Membrane trafficking	Reproduction	Plant-organism interaction A
11:15	<p>2aA10 Photosynthetic Protection Mechanisms against CO<sub>2</sub> Limitation in Submerged <i>Arabidopsis thaliana</i> Seedlings Sae Bekki<sup>1</sup>, Ai Ohnishi<sup>2</sup>, Hajime Wada<sup>2</sup>, Koichi Kobayashi<sup>3</sup> (1Sch. Sci., Osaka Pref. Univ., 2Grad. Sch. Arts Sci., Univ. Tokyo, 3Grad. Sch. Sci., Osaka Met. Univ.)</p>		<p>2aC10 Dynamics of the VAMP72 group in pollen tube elongation with a super-resolution live imaging analysis Anna Tode<sup>1</sup>, Emi Ito<sup>3</sup>, Yoko Ito<sup>3</sup>, Kazuo Ebine<sup>4,5</sup>, Takashi Ueda<sup>4,5</sup>, Akihiko Nakano<sup>6</sup>, Tomohiro Uemura<sup>1,2</sup> (1Grad. Sch. Humanities and Sciences, Ochanomizu Univ., 2Faculty of Core Research, Natural Science Div., Ochanomizu Univ., 3IHLS., Ochanomizu Univ., 4Div. Cell Dynamics, NIBB, 5Dept. Basic Bio., SOKENDAI, 6RIKEN RAP)</p>	<p>2aD10 Importance of autophagy for germination ability maintenance in long-term stored seeds Daiki Shinozaki<sup>1,2</sup>, Erina Takayama<sup>2</sup>, Naoto Kawakami<sup>2</sup>, Kohki Yoshimoto<sup>2</sup> (1OSRI, Meiji Univ., 2Dep. Life Sci., Sch. Agri., Meiji Univ.)</p>	<p>2aE10 Control of root microbes by phosphate starvation response regulators in <i>Arabidopsis thaliana</i> Haruna Tada<sup>1</sup>, Taiga Ishihara<sup>1</sup>, Kentaro Okada<sup>1</sup>, Ryo Chigusa<sup>1</sup>, Utami Yuniar Devi<sup>1</sup>, Miki Fujita<sup>2</sup>, Tetsuya Hayashi<sup>3</sup>, Cosentino Salvatore<sup>4</sup>, Wataru Iwasaki<sup>4</sup>, Kei Hiruma<sup>1</sup>, Shigetaka Yasuda<sup>1</sup>, Yusuke Saijo<sup>1</sup> (1Grad. Sch. Sci and Tech., NAIST, 2CSRS, RIKEN, 3Sch. Med., Kyushu Univ., 4Grad. Sch. Frontier Sci., Tokyo Univ.)</p>
11:30	<p>2aA11 Structure of S<sub>2</sub> High-Spin State Manganese Cluster of Photosystem II by Multi-frequency Electron Paramagnetic Resonance (EPR) Spectroscopy Shinya Kosaki<sup>1</sup>, Yoshiki Nakajima<sup>2</sup>, Jian-Ren Shen<sup>2</sup>, Hiroyuki Mino<sup>1</sup> (1Grad. Sch. Sci., Nagoya Univ., 2Res. Inst. Interdiscip. Sci., Okayama Univ.)</p>		<p>2aC11 Analysis of subcellular localization and physiological functions of <i>Arabidopsis thaliana</i> VAMP714 Tomoko Eguchi<sup>1</sup>, Sae Endo<sup>1</sup>, Emi Ito<sup>2</sup>, Akihiko Nakano<sup>3</sup>, Tomohiro Uemura<sup>1</sup> (1Graduate School of Humanities and Sciences, Ochanomizu Univ., 2Institute for Human Life Innovation, Ochanomizu Univ., 3Live Cell Super-Resolution Imaging Research Team, RIKEN Center for Advanced Photonics.)</p>	<p>2aD11 Overexpression of <i>orf320</i> causes male sterility in tomato Rika Nakajima<sup>1</sup>, Kosuke Kuwabara<sup>1</sup>, Kenta Shirasawa<sup>2</sup>, Tohru Ariizumi<sup>3</sup> (1Grad. Life Environ. Sci., Univ. Tsukuba, 2Kazusa DNA Res. Inst., 3Fac. Life Env. Sci., Univ. Tsukuba)</p>	<p>2aE11 <b>E</b> Interference with host root growth and immunity by root microbiota members and its genetic determinants Jana Hucklenbroich<sup>1</sup>, Ryohei Thomas Nakano<sup>1,2</sup> (1MPIPZ, 2Fac. Sci., Hokkaido Univ.)</p>
11:45			<p>2aC12 Functional analysis of Syntaxin 6-like protein in vascular plant (SYLK) Sara Tode<sup>1</sup>, Emi Ito<sup>2</sup>, Yoko Ito<sup>2</sup>, Yutaro Simizu<sup>3</sup>, Kei Hiruma<sup>4</sup>, Akihiko Nakano<sup>5</sup>, Tomohiro Uemura<sup>1,6</sup> (1Grad. Sch. Humanities and Sciences, Ochanomizu Univ., 2IHLS., Ochanomizu Univ., 3CSRS, RIKEN, 4Grad. Sch. Arts and Sciences, Univ. Tokyo, 5RIKEN RAP, 6Faculty of Core Research, Natural Science Div., Ochanomizu Univ.)</p>	<p>2aD12 Study of SPR12 controlling interspecies incompatibility in the Brassicaceae Seitaro Ito<sup>1</sup>, Eri Yamamoto<sup>1</sup>, Surachat Tangpranomkorn<sup>1</sup>, Yuka Kimura<sup>1</sup>, Yoshinobu Kato<sup>1,2</sup>, Maki Niidome<sup>1</sup>, Seiji Takayama<sup>1</sup>, Sota Fujii<sup>1,3</sup> (1Grad. Sch. Agric Life Sci., Univ. Tokyo, 2Precursory Research for Embryonic Science and Technology, 3Suntory Rising Stars Encouragement Program in Life Sciences)</p>	



● Day 3, Tue., March 19, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis	Plant hormones/ Signaling molecules	Cell wall	Cell cycle/Cell division	Plant-organism interaction B
09:00	3aA01 Reevaluation of the two-step mechanism for photodamage to photosystem II <u>Shunta Kojima</u> , Yoshitaka Nishiyama (Grad. Sch. Sci. Eng., Saitama Univ.)	3aB01 Detection and Quantitative Analysis of ACC synthase Proteins of Tomato with MRM Method by Mass Spectrometer <u>Hitoshi Mori</u> (Grad. Sch. Bioagr. Sci., and iGCORE, Nagoya Univ.)	3aC01 TPFLA3 plays an important role in Arabidopsis pollen exine structure and fertility <u>Saki Nabeta</u> , Seiya Nishihara, Nozomi Ueki, Sumie Ishiguro (Bio-Agric. Sci., Nagoya Univ.)	3aD01 Stomatal lineage-specific TCX family proteins may form a protein complex for control of cell division during stomatal development <u>Keito Mineta</u> <sup>1</sup> , Hidekazu Iwakawa <sup>2</sup> , Takumi Nishiuchi <sup>3</sup> , Masaki Ito <sup>2</sup> ( <sup>1</sup> Graduate School of Natural Science and Technology, Kanazawa University, <sup>2</sup> Faculty of Biological Science and Technology, Kanazawa University, <sup>3</sup> Research Center for Experimental Modeling of Human Disease, Kanazawa University)	3aE01 Mutant collections showing the symptom-like phenotypes in NBRP-Tomato resources <u>Koichi Sugimoto</u> , Yoko Fujimori, Hiroshi Ezura (Univ. Tsukuba, T-PIRC)
09:15	3aA02 ③ Enhanced tolerance of photosystem II to strong light and high temperature via reinforcement of translational and antioxidant systems in <i>Synechocystis</i> sp. PCC 6803 <u>Pompan Napaumpaiporn</u> <sup>1</sup> , Takako Ogawa <sup>1</sup> , Kintake Sonoike <sup>2</sup> , Yoshitaka Nishiyama <sup>1</sup> ( <sup>1</sup> Grad. Sch. Sci. Eng., Saitama Univ., <sup>2</sup> Fac. Edu., Waseda Univ.)	3aB02 Exploring Peptide Signaling: A Study of Environmental Responsiveness <u>Akie Shimotohno</u> (Nagoya University (ITbM))	3aC02 ③ Measurement of root mechanical properties in an <i>A. thaliana</i> GWAS population <u>Marcel Beier</u> <sup>1</sup> , Yunshu Wang <sup>2</sup> , Yuta Nakagawa <sup>3</sup> , Andres Aguilar Ariza <sup>2</sup> , Liyu Deng <sup>8</sup> , Tomomichi Fujita <sup>4</sup> , Shumpei Hayashi <sup>5</sup> , Akihiro Isozaki <sup>3</sup> , Keisuke Goda <sup>3,6,7</sup> , Hirokata Hida <sup>5</sup> , Toru Fujiwara <sup>2</sup> (Inst. Adv. Higher Edu. Hokkaido University, <sup>2</sup> Dep. Appl. Biol. Chem., Grad. Sch. Agri. Life Sci., The University of Tokyo, <sup>3</sup> Dep. Chem, Grad. Sch. Sci, The University of Tokyo, <sup>4</sup> Fac. Sci. Hokkaido University, <sup>5</sup> Dep. Mech. Eng., Grad. Sch. Kobe University, <sup>6</sup> Dep. Bioeng. Samueli Sch Eng. University of California, <sup>7</sup> Inst. Tech. Sci., Wuhan University, <sup>8</sup> Grad. Sch. Life Science, Hokkaido University)	3aD02 The dynamic changes of the nuclear factor ASYMMETRIC LEAVES2 (AS2) protein during cell cycle <u>Michiko Sasabe</u> <sup>1</sup> , Keiko Suzuki <sup>1</sup> , Kaede Yamagami <sup>1</sup> , Sayuri Ando <sup>2</sup> , Hidekazu Iwakawa <sup>3</sup> , Shoko Kijima <sup>2</sup> , Yasunori Machida <sup>4</sup> , Chiyoko Machida <sup>2</sup> ( <sup>1</sup> Faculty of Agriculture and Life Science, Hirosaki University, <sup>2</sup> Graduate School of Bioscience and Biotechnology, Chubu University, <sup>3</sup> College of Science and Engineering, Kanazawa University, <sup>4</sup> Graduate School of Science, Nagoya University)	3aE02 Long-read metagenome analysis of isoflavone catabolism pathway in soybean rhizosphere <u>Tomohisa Shimasaki</u> <sup>1,2</sup> , Sachiko Masuda <sup>3</sup> , Arisa Shibata <sup>3</sup> , Yui Nose <sup>1</sup> , Tomoaki Sato <sup>4</sup> , Akifumi Sugiyama <sup>4</sup> , Ken Shirasu <sup>3</sup> , Yasunori Ichihashi <sup>1</sup> ( <sup>1</sup> RIKEN-BRC, <sup>2</sup> Grad. Sch. of Sci. Hokkaido Univ., <sup>3</sup> RIKEN-CSRS, <sup>4</sup> RISH Kyoto Univ.)
09:30	3aA03 Role of Hexadecenoic Acid on the photoinhibition of photosystem II in <i>Arabidopsis</i> <u>Kazuki Kurima</u> , Haruhiko Jimbo, Hajime Wada (Grad. Sch. Arts Sci., Univ. Tokyo, Japan)	3aB03 ③ An Evolutionarily Conserved Long-distance Mobile Peptide Regulates Lignin Biosynthesis and Plant Immunity <u>Ying-Lan Chen</u> (National Cheng Kung University)	3aC03 ③ <i>A. thaliana</i> root adaptation to sucrose supply and osmotic treatments, and future application to moss <u>Liyu Deng</u> <sup>1</sup> , Yunshu Wang <sup>2</sup> , Yuta Nakagawa <sup>3</sup> , Aguilar Ariza Andres <sup>2</sup> , Shumpei Hayashi <sup>4</sup> , Akihiro Isozaki <sup>3</sup> , Keisuke Goda <sup>3,6,7</sup> , Hirokata Hida <sup>5</sup> , Toru Fujiwara <sup>2</sup> , Tomomichi Fujita <sup>4</sup> , Marcel Beier <sup>8</sup> ( <sup>1</sup> Grad. Sch. Life Science, Hokkaido University, <sup>2</sup> Dep. Appl. Biol. Chem., Grad. Sch. Agri. Life Sci., The University of Tokyo, <sup>3</sup> Dep. Chem, Grad. Sch. Sci, The University of Tokyo, <sup>4</sup> Fac. Sci. Hokkaido University, <sup>5</sup> Dep. Mech. Eng., Grad. Sch. Kobe University, <sup>6</sup> Dep. Bioeng. Samueli Sch Eng. University of California, <sup>7</sup> Inst. Tech. Sci., Wuhan University, <sup>8</sup> Inst. Adv. Higher Edu, Hokkaido University)	3aD03 ANAC082-Mediated Cell Proliferation Control in Response to Nucleolar Stress in Arabidopsis <u>Iwai Ohbayashi</u> <sup>1,2</sup> , Tai-Yin Hsu <sup>1</sup> , PoChen Chiang <sup>1</sup> , Akitoshi Iwamoto <sup>3</sup> , Masahiko Furutani <sup>4</sup> , Munetaka Sugiyama <sup>5</sup> ( <sup>1</sup> Dept. Life Sci., NCKU, Taiwan, <sup>2</sup> Inst. Trop. Plant Sci. Microb., NCKU, Taiwan, <sup>3</sup> Dept. Biol. Sci., Kanagawa Univ., <sup>4</sup> TROAST, Kumamoto Univ., <sup>5</sup> Dept. Biol. Sci., Grad. Sch. Sci., Univ. Tokyo)	3aE03 Analysis of the root colonization of <i>Sphingobium</i> sp. enriched in the tomato rhizosphere by $\alpha$ -tomatine <u>Kyoko Takamatsu</u> <sup>1,2</sup> , Masaru Nakayasu <sup>1</sup> , Shinichi Yamazaki <sup>2,3</sup> , Yuichi Aoki <sup>2,4</sup> , Masaru Kobayashi <sup>2</sup> , Kentaro Ifuku <sup>5</sup> , Kazufumi Yazaki <sup>1</sup> , Akifumi Sugiyama <sup>1</sup> ( <sup>1</sup> RISH, Kyoto Univ., <sup>2</sup> ToMMo, Tohoku Univ., <sup>3</sup> RIKEN BRC., <sup>4</sup> GSIS, Tohoku Univ., <sup>5</sup> Grad. Agri., Kyoto Univ.)
09:45	3aA04 Role of a galactolipase in the repair of cyanobacterial PSII <u>Haruhiko Jimbo</u> , Hajime Wada (Grad. Sch. Arts. Sci., Univ. Tokyo)	3aB04 <i>XYLANASE1</i> -dependent CLE26 peptide signaling in conferring drought resistance in <i>Arabidopsis</i> <u>Satoshi Endo</u> <sup>1</sup> , Hiroo Fukuda <sup>1,2</sup> ( <sup>1</sup> Fac. Bioenviron. Sci., Kyoto Univ. Adv. Sci., <sup>2</sup> Akita Pref. Univ.)	3aC04 Analysis of a Thin-Layered Mucilage Capsule Mutant in Arabidopsis <u>Tadashi Kunieda</u> <sup>1</sup> , George W. Haughn <sup>2</sup> , Ikuko Hara-Nishimura <sup>3</sup> ( <sup>1</sup> Div. of Biol. Sci., NAIST, <sup>2</sup> Dept. of Bot., UBC, <sup>3</sup> Fac. of Sci. and Eng., Konan Univ.)	3aD04 A Functional Framework of the Kinetochore in Flowering Plants <u>Pettkó-Szandtner Aladár</u> <sup>1</sup> , Zoltán Magyar <sup>1</sup> , <u>Shinichiro Komaki</u> <sup>2</sup> ( <sup>1</sup> BRC. Szeged., Hungary, <sup>2</sup> Grad. Sch. Biol. Sci., NAIST)	3aE04 <i>Arabidopsis</i> root exudates induce resilience to growth inhibition triggered by <i>Bacillus</i> volatile organic compounds <u>Jun Murata</u> , Shoko Mori, Mika Nobuhara, Hiromi Toyonaga, Tsukiho Osawa, Takehiro Watanabe (Suntory Foundation for Life Sciences)
10:00	3aA05 NPQ7 was involved in stability of photosystem II and thylakoid membrane maintenance in <i>C. Flaveria bidentis</i> <u>Ai Ishizaki</u> <sup>1</sup> , Sayaka Koshi <sup>1</sup> , Ryouichi Tanaka <sup>2</sup> , Atsushi Takabayashi <sup>2</sup> , Takao Ori <sup>3</sup> , Kentaro Ifuku <sup>4</sup> , Yuri Munekage <sup>1</sup> ( <sup>1</sup> School Science and Technology, Kwansai Gakuin University, <sup>2</sup> Institute of Low Temperature Science, Hokkaido University, <sup>3</sup> Graduate School of Bioagricultural Sciences, Nagoya University, <sup>4</sup> Division of Applied Life Sciences, Kyoto University)	3aB05 ③ Gibberellins promote seed conditioning by up-regulating strigolactone receptors in the parasitic plant <i>Striga hermonthica</i> <u>Jia Xin Yap</u> , Yuichiro Tsuchiya (ITbM, Nagoya University)	3aC05 Glucomannan accumulation in the vacuole in <i>Dendrobium catenatum</i> <u>Aina Kikuchi</u> <sup>1</sup> , Naho Nishigaki <sup>1</sup> , Kimie Atsuzawa <sup>2</sup> , Mao Ono <sup>3</sup> , Chuan-Ming Yeh <sup>4</sup> , Wen-Chieh Tsai <sup>5</sup> , Takeshi Ishimizu <sup>3</sup> , Yasuko Kaneko <sup>6</sup> , Daisuke Takahashi <sup>1</sup> , Toshihisa Kotake <sup>1</sup> ( <sup>1</sup> Grad. Sch. Sci. Eng., Saitama Univ., <sup>2</sup> CACS, Saitama Univ., <sup>3</sup> Col. Life Sci., Ritsumeikan Univ., <sup>4</sup> Inst. Mol. Biol., Nat. Chung Hsing Univ., <sup>5</sup> Inst. Trop. Plant Sci. Microbiol., Nat. Cheng Kung Univ., <sup>6</sup> Fac. Edu., Saitama Univ.)	3aD05 Drastic changes in gene-expression profile during the spore germination of <i>Marchantia polymorpha</i> <u>Yuuki Sakai</u> <sup>1</sup> , Shunji Shimadzu <sup>1,2</sup> , Kondo Yuki <sup>1</sup> , Fukaki Hidehiro <sup>1</sup> , Ishizaki Kimitsune <sup>1</sup> ( <sup>1</sup> Grad. Sch. Sci., Kobe Univ., <sup>2</sup> Grad. Sch. Sci., Univ. of Tokyo)	3aE05 A Machine Learning-based Image Analysis Pipeline to Quantify Arabidopsis Root Phenotypes <u>Momoko Takagi</u> <sup>1,2</sup> , Manami Okazaki <sup>2</sup> , Liu Xinpeng <sup>3</sup> , Kei Hiruma <sup>2</sup> , Fumio Okura <sup>3</sup> , Yosuke Toda <sup>1,4</sup> (ITbM., Nagoya Univ., <sup>2</sup> Grad. Sch. Arts and Sci., Univ. Tokyo, <sup>3</sup> Grad. Sch. Inf. Sci. Technol., Osaka Univ., <sup>4</sup> Phytometrics, Co., Ltd.)

Room F	Room G	Room H	Room X	Room Y	Room Z	Time	
Photoreceptors/Photoresponses	Biomembrane/ Ion and solute transport	Development/Morphogenesis	Genome function/Gene regulation				
<p>3aF01 Hypochromically shifted phyC inhibits hypocotyl elongation at the lower limit of red:far-red light conditions where phyB functions <u>Shizue Yoshihara</u><sup>1,2</sup>, Koji Okajima<sup>3</sup>, Satoru Tokutomi<sup>2</sup> (<sup>1</sup>Grad. Sch. Sci., Osaka Metro. Univ., <sup>2</sup>Grad. Sch. Sci., Osaka Pref. Univ., <sup>3</sup>Fuc. Sci. Technol., Keio Univ.)</p>	<p>3aG01 Redundant function of the <i>Arabidopsis</i> phosphatidylinositol 4-phosphate 5-kinase genes <i>PIP5K4-6</i> is essential for pollen germination <u>Mariko Kato</u><sup>1</sup>, Machiko Watari<sup>1</sup>, Tomohiko Tsuge<sup>1</sup>, Sheng Zhong<sup>2</sup>, Hongya Gu<sup>2</sup>, Li-Jia Qu<sup>2</sup>, Takashi Fujiwara<sup>1</sup>, Takashi Aoyama<sup>1</sup> (<sup>1</sup>Inst. Chem. Res., Kyoto Univ., <sup>2</sup>Peking Univ.)</p>	<p>3aH01 Single-cell transcriptomic analysis to investigate the mechanism of cell fate reprogramming of differentiated cells during shoot regeneration from the epidermis <u>Hatsune Morinaka</u><sup>1</sup>, Dongbo Shi<sup>1,2</sup>, Ayako Kawamura<sup>1</sup>, Takamasa Suzuki<sup>3</sup>, Akira Iwase<sup>1</sup>, Tetsuya Higashiyama<sup>4</sup>, Munetaka Sugiyama<sup>4</sup>, Keiko Sugimoto<sup>1,4</sup> (<sup>1</sup>CSRS, RIKEN, <sup>2</sup>IBB, Univ. Potsdam, <sup>3</sup>Dept. Biol. Chem., Coll. Biosci. Biotech., Chubu Univ., <sup>4</sup>Dept. Biol. Sci., Grad. Sch. Sci., Univ. Tokyo)</p>	<p>3aX01 Reconstruction of the Functional <i>nif</i> Gene Cluster by Seven Excision and Two Inversion Events during Heterocyst Development in the Nitrogen-Fixing Cyanobacterium <i>Calothrix</i> sp. NIES-4101 <u>Kazuma Uesaka</u>, Mari Banba, Sotaro Tiba, Yuichi Fujita (Univ. Nagoya)</p>	Symposium S09 Bio-metal Strategies of Living Organisms (9:00–11:50)		09:00	
<p>3aF02 Isolation and characterization of <i>Arabidopsis</i> mutants impaired in blue light-dependent activation of plasma membrane H<sup>+</sup>-ATPase in guard cells <u>Saashia Fujii</u><sup>1</sup>, Shota Yamauchi<sup>1,2</sup>, Atsushi Takemiya<sup>2</sup> (<sup>1</sup>Grad. Sch. Sci. Tech. Innov., Yamaguchi Univ., <sup>2</sup>Fac. Sci. Tech., Tokyo Univ. Sci.)</p>	<p>3aG02 AtHKT1 alleviates Na accumulation in companion cells of filaments during reproductive development in saline environments <u>Takeshi Uchiyama</u><sup>1</sup>, Shunya Saito<sup>1</sup>, Taro Yamanashi<sup>1</sup>, Megumi Kato<sup>1</sup>, Tomoko Takagi<sup>2</sup>, Noriko Nagata<sup>3</sup>, Sho Toyama<sup>3</sup>, Misako Miwa<sup>3</sup>, Shigeo Matsuyama<sup>3</sup>, Hayato Ikeda<sup>4</sup>, Hidetoshi Kikumaga<sup>4</sup>, Toshimi Suda<sup>4</sup>, Masaru Tsujii<sup>1</sup>, Yasuhiro Ishimaru<sup>1</sup>, Nobuyuki Uozumi<sup>1</sup> (<sup>1</sup>Department of Biomolecular Engineering, Graduate School of Engineering, Tohoku University, <sup>2</sup>Department of Chemical and Biological Sciences, Faculty of Science, Japan Women's University, <sup>3</sup>Quantum Science and Energy Engineering, Graduate School of Engineering, Tohoku University, <sup>4</sup>Research Center for Electron Photon Science, Tohoku University)</p>	<p>3aH02 <b>E</b> Analysis of regeneration control by the MAP kinase MpMPK1 in <i>Marchantia polymorpha</i> <u>Rika Yanuki</u>, Shota Yamauchi, Ryuichi Nishihama (Dept. Appl. Biol. Sci., Fac. Sci. Tech., Tokyo Univ. Sci.)</p>	<p>3aX02 <b>E</b> Molecular mechanisms to control the oxygen paradox in the nitrogen-fixing cyanobacterium <i>Leptolyngbya boryana</i>: Genetic analysis in the 50-kb <i>nif</i> gene cluster <u>Sara Bakri</u>, Mari Banba, Haruki Yamamoto, Hiroya Kotani, Kazuma Uesaka, Yuichi Fujita (Graduate School of Bioagricultural Sciences, Nagoya University)</p>				09:15
<p>3aF03 Elucidation of the molecular mechanisms of blue light-dependent starch degradation for stomatal opening <u>Hiroki Ikuta</u><sup>1</sup>, Shota Yamauchi<sup>2</sup>, Atsushi Takemiya<sup>2</sup> (<sup>1</sup>Fac. Sci., Yamaguchi Univ., <sup>2</sup>Fac. Sci. Tech., Tokyo Univ. Sci., <sup>3</sup>Grad. Sch. Sci. Tech. Innov., Yamaguchi Univ.)</p>	<p>3aG03 Sulfate Transporter SULTR2;1 Adjusts the Bolting Timing by Transporting Sulfate from Rosette Leaves to the Primary Stem <u>Khamsalath Soudthelath</u><sup>1</sup>, Toshiki Nakamura<sup>1</sup>, Jutarou Fukazawa<sup>2</sup>, Keishi Osakabe<sup>3</sup>, Yuriko Osakabe<sup>4</sup>, <u>Akiko Maruyama</u><sup>1</sup> (<sup>1</sup>Dept. Biosci. Biotech., Kyushu Univ., <sup>2</sup>Grad. Sch. Integ. Sci. Life, Hiroshima Univ., <sup>3</sup>Grad. Sch. Technol. Tokushima Univ., <sup>4</sup>Sch. Life Sci. Technol., Tokyo Inst. Technol.)</p>	<p>3aH03 Analyses of Cellular Dynamics Regulated by WOXs During <i>Arabidopsis</i> Shoot Regeneration <u>Yuki Doll</u>, Momoko Ikeuchi (Div. Bio. Sci., Grad. Sch. Sci. Tech., NAIST)</p>	<p>3aX03 Unraveling the role of a long noncoding RNA in the regulation of NLR-mediated plant immunity <u>Misaki Chino</u><sup>1</sup>, Takuto Matsunaga<sup>1</sup>, Yuta Ueda<sup>1</sup>, Tokuji Tsuchiya<sup>2</sup> (<sup>1</sup>Grad. Sch. ALS., Univ. Nihon, <sup>2</sup>Coll. Biores. Sci., Univ. Nihon)</p>				09:30
<p>3aF04 Investigation for novel stomatal opening signaling factors using stomatal opening inhibitors and its derivatives <u>Shogo Kuwayama</u><sup>1</sup>, Koji Takahashi<sup>1</sup>, Yuki Hayashi<sup>1</sup>, Kohei Fukatsu<sup>1</sup>, Maki Hayashi<sup>2</sup>, Ayato Sato<sup>3</sup>, Toshinori Kinoshita<sup>1,3</sup> (<sup>1</sup>Grad. Sch. Sci., Nagoya Univ., <sup>2</sup>Grad. Sch. Life Sci., Tohoku Univ., <sup>3</sup>ITbM, Nagoya Univ.)</p>	<p>3aG04 Casparian strips prevent apoplastic diffusion of excess B into root steles <u>Keita Muro</u><sup>1</sup>, Jio Kamiyo<sup>2</sup>, Junpei Takano<sup>1</sup> (<sup>1</sup>Grad. Sch. Agr., Osaka Metropolitan Univ., <sup>2</sup>Grad. Sch. Life Environ. Sci., Osaka Pref. Univ.)</p>	<p>3aH04 WOX13 Suppresses Pluripotency Acquisition in Callus via Down-regulation of Root Regulator Gene Expression <u>Eri Odaira</u>, Momoko Ikeuchi (NAIST)</p>	<p>3aX04 The Homeologs Involved in MBW-Complex Regulating Anthocyanin Biosynthesis in <i>Perilla frutescens</i> <u>Moe Furuya</u><sup>1</sup>, Ryosuke Sugiyama<sup>1,2</sup>, Fu-ka Kakinoki<sup>1</sup>, Mami Yamazaki<sup>1,3</sup> (<sup>1</sup>Grad. Sch. Pharm. Sci., Chiba Univ., <sup>2</sup>JST PRESTO, <sup>3</sup>PMSC, Chiba Univ.)</p>				09:45
<p>3aF05 Intermolecular autophosphorylation of phototropin during the chloroplast avoidance response in <i>Marchantia polymorpha</i> <u>Minoru Noguchi</u><sup>1,2</sup>, Yutaka Kodama<sup>1,2</sup> (<sup>1</sup>Ctr. Biosci. Res. Educ., Utsunomiya Univ., <sup>2</sup>Grad. Sch. Reg. Dev. Creat., Utsunomiya Univ.)</p>	<p>3aG05 Dauciform root formation and nutrient profiles of monocot plants found in poor nutrient soils in western Japan <u>Jun Wasaki</u><sup>1,2,3,4</sup>, Genki Masuda<sup>1</sup>, Rie Matsuyama<sup>2</sup>, Hayato Maruyama<sup>1,5</sup>, Takayuki Nakatsubo<sup>1,2,3</sup>, Ryusuke Inoue<sup>3</sup>, Akihiro Yamamoto<sup>6</sup>, Toshihiro Watanabe<sup>5</sup> (<sup>1</sup>Grad. Sch. Biosphere Sci., Hiroshima Univ., <sup>2</sup>Sch. Integr. Arts Sci., Hiroshima Univ., <sup>3</sup>GSISL, Hiroshima Univ., <sup>4</sup>Seto Inland Sea CN Research Center, Hiroshima Univ., <sup>5</sup>Res. Fac. Agric., Hokkaido Univ., <sup>6</sup>Hiroshima Botanical Garden)</p>	<p>3aH05 <b>E</b> Brassinosteroid receptor-mediated regulation of tissue regeneration in <i>Arabidopsis</i> <u>Ye Zhang</u><sup>1</sup>, Kazuki Suita<sup>1</sup>, Naoki Takahashi<sup>2</sup>, Masaaki Umeda<sup>1</sup> (<sup>1</sup>Grad. Sch. Sci. &amp; Tech., Nara Institute of Science and Technology, <sup>2</sup>Dep. Life Sci., Sch. Agr., Meiji Univ.)</p>	<p>3aX05 GESENI (GEne Silencing based on ENcoded protein's Intracellular localization) in <i>Arabidopsis</i> sperm cells <u>Yukinosuke Ohnishi</u><sup>1,2</sup>, Tomokazu Kawashima<sup>1</sup> (<sup>1</sup>Dept. Plant&amp;Soil Sci., Univ. Kentucky, <sup>2</sup>Dept. Sci., Tokyo Metropolitan Univ.)</p>				10:00

● Day 3, Tue., March 19, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis	Plant hormones/ Signaling molecules	Cell wall	Cell cycle/Cell division	Plant-organism interaction B
10:15	<p>3aA06 The relation between photosynthetic assimilation and interspecific variations in the rate constants of photo-damage and repair of photosystem II among woody species <u>Shoko Tsujii</u><sup>1</sup>, Masaru Kobayashi<sup>1</sup>, Kentaro Ifuku<sup>1</sup>, Kouki Hikosaka<sup>2</sup> (1Grad. Sch. Agric., Kyoto Univ., 2Grad. Sch. Life Sci., Tohoku Univ.)</p>	<p>3aB06 Elucidating Arabidopsis root growth mechanisms with an engineered GA-GID1 pair <u>Yuichiro Yagami</u><sup>1</sup>, Ryotaro Yamada<sup>1</sup>, Yuuma Ishikawa<sup>2</sup>, Shinya Hagihara<sup>3</sup>, Masayoshi Nakamura<sup>4</sup> (1Grad. Sch. Sci., Univ. Nagoya, 2HHU Düsseldorf, 3Center for Sustainable Resource Science, RIKEN, 4ITbM, Univ. Nagoya)</p>	<p>3aC06 Cell wall changes during cold acclimation and deacclimation may affect both freezing tolerance and growth <u>Tatsuya Kutsuno</u>, Toshihisa Kotake, Daisuke Takahashi (Grad. Sch. Sci. Eng., Saitama Univ.)</p>	<p>3aD06 Live imaging of pollen development and the mechanism of germ cell differentiation by inducing cell division Shiori Nagahara<sup>1,2</sup>, Daisuke Maruyama<sup>3</sup>, Shohei Yamaoka<sup>4</sup>, <u>Yoko Mizuta</u><sup>2,5</sup> (1Grad. Sch. Sci., Kyoto Univ., 2WPI-ITbM, Nagoya Univ., 3Kihara Inst. Biol. Res., Yokohama City Univ., 4Grad. Sch. Biostudies, Kyoto Univ., 5IAR, Nagoya Univ.)</p>	<p>3aE06 Comparison of infection processes of pathogenic or beneficial strains of <i>Colletotrichum tofieldiae</i> into host <i>Arabidopsis thaliana</i> roots <u>Takeshi Higa</u>, Masami Nakamura, Kei Hiruma (Grad. Sch. Arts and Sci., Univ. Tokyo)</p>
10:30	<p>3aA07 Comparative Genome Analysis Revealed That A Universal Stress Protein Regulates State Transitions In <i>Synechocystis</i> sp. PCC 6803 <u>Tsukasa Fukunaga</u><sup>1</sup>, Takako Ogawa<sup>2,3</sup>, Wataru Iwasaki<sup>4</sup>, Kintake Sonoike<sup>2</sup> (1WIAS, Waseda Univ., 2Fac. Edu. Int. Arts. Sci., Waseda Univ., 3Grad. Sch. Sci. Eng., Saitama University, 4Dep. Int. Bio., Grad. Sch. Fro. Sci., Univ. Tokyo.)</p>	<p>3aB07 Analysis of crosstalk between ABA and GA via DELLA protein Nozomi Okonogi, Yuki Taninaga, Seitaro Nakabayashi, Yohsuke Takahashi, <u>Jutarou Fukazawa</u> (Grad. Sch. Int. Sci., Hiroshima Univ.)</p>	<p>3aC07 The desiccation tolerance exhibited by <i>Selaginella tamariscina</i> may be attributable more to the cell wall than to trehalose <u>Takuma Kikuchi</u><sup>1</sup>, Momoka Ohashi<sup>2</sup>, Yasuko Kaneko<sup>3</sup>, Toshihisa Kotake<sup>1</sup>, Daisuke Takahashi<sup>1</sup> (1Grad. Sch. Sci. Eng., Saitama Univ., 2Dept. Biochem. Mol. Bio., Fac. Sci., Saitama Univ., 3Dept. Nat. Sci., Fac. Edu., Saitama Univ.)</p>	<p>3aD07 Subcellular Localization of Meiosis-Specific Cyclin SDS in Pollen Mother Cells of <i>Arabidopsis thaliana</i> <u>Yoshitaka Azumi</u>, Tatsuma Fujimura (Faculty of Science, Kanagawa University)</p>	<p>3aE07 <b>E</b> Root Endophyte <i>Colletotrichum tofieldiae</i> Recruits Beneficial Bacteria To Roots And Promotes Plant Growth By Facilitating Plant Nitrogen Uptake Under Nitrogen-Limiting Conditions <u>Tan Anh Nhi Nguyen</u>, Masami Nakamura, Koji Tokunaga, Kei Hiruma (Grad. Sch. Art. Sci., Univ. Tokyo)</p>
10:45	<p>3aA08 Phosphatidylglycerol is involved in regulating gene expression in chloroplasts <u>Kousei Noto</u><sup>1</sup>, Koichi Kobayashi<sup>2</sup>, Yusuke Kawashima<sup>3</sup>, Masaki Ishikawa<sup>3</sup>, Sho Fujii<sup>1</sup> (1Fac. Agric. Life Sci., Univ. Hirotsaki, 2Fac. Lib. Arts Sci. Global Edu., Univ. Osaka Metro, 3Kazusa DNA Res. Inst)</p>	<p>3aB08 <b>E</b> EIN3-independent activation of B3-Raf kinase by the EIN2-like Nramp-family protein in regulating the ABA responses in the moss <i>Physcomitrium patens</i> <u>Md. Masudul Karim</u><sup>1,3</sup>, Kanata Hirota<sup>1</sup>, Miyabe Marcos Takeshi<sup>2</sup>, Yoichi Sakata<sup>2</sup>, Daisuke Takezawa<sup>1</sup> (1Graduate School of Science and Engineering, Saitama University, Saitama, 338-8570, Japan, 2Department of Bioscience, Tokyo University of Agriculture, 1-1-1 Sakuragaoka, Setagaya-ku, Tokyo 156-8502, Japan, 3Department of Crop Botany, Bangladesh Agricultural University, Mymensingh-2202, Bangladesh)</p>	<p>3aC08 Identification of transcription factors involved in secondary cell wall formation of xylem cells in <i>Cryptomeria japonica</i> <u>Ryosuke Sato</u><sup>1</sup>, Yoshihiko Nanasato<sup>1</sup>, Soichiro Naganos<sup>2</sup>, Ken-ichi Konagaya<sup>1</sup>, Toru Taniguchi<sup>1</sup>, Naoki Takata<sup>1</sup> (1Forest Bio-Res. Ctr., FFPRI, 2Forest Tree Breed. Ctr., FFPRI)</p>	<p>3aD08 <b>E</b> CHH hypermethylation at 24PHAS loci during meiosis in rice male meiocytes <u>Huong Ta</u><sup>1</sup>, Taiji Kawakatsu<sup>2</sup>, Atsushi Toyoda<sup>3</sup>, Mutsuko Nakano<sup>1</sup>, Ken-Ichi Nonomura<sup>1,4</sup> (1Plant Cytogenet., NIG, 2Inst. Crop Sci., NARO, 3Comparative Genet., NIG, 4SOKENDAI)</p>	<p>3aE08 Exploring beneficial associations of plants with leaf-inhabiting bacteria that manipulate stomatal movement <u>Rikako Hirata</u><sup>1</sup>, Momoko Takagi<sup>2</sup>, Yuniar Devi Utami<sup>3</sup>, Kei Hiruma<sup>3</sup>, Yosuke Toda<sup>2,4</sup>, Akira Mine<sup>1</sup> (1Grad. Sch. Agr., Kyoto Univ., 2ITbM, Nagoya Univ., 3Grad. Sch. Arts and Sci., Tokyo Univ., 4Phytometrics Co., Ltd.)</p>
11:00	<p>3aA09 Analysis of the Role of Chloroplast DNA in the Structural Formation of Pyrenoids, the Carbon Fixation Accelerator in Chlamydomonas <u>Haruki Kanazawa</u>, Aine Kawashima, Mari Takusagawa, Toshiharu Shikanai, Yoshiki Nishimura (Grad. Sch. Sci., Univ. Kyoto)</p>	<p>3aB09 <b>E</b> Reactive carbonyl species production mediated by endogenous abscisic acid in methyl jasmonate induced stomatal closure <u>Oumayma Shaiek</u><sup>1</sup>, Toshiyuki Nakamura<sup>1</sup>, Yoshimasa Nakamura<sup>1</sup>, Jun'ichi Mano<sup>2</sup>, Shintaro Munemasa<sup>1</sup>, Yoshiyuki Murata<sup>1</sup> (1Grad. Sch. of Environ. Life Sci., Okayama Univ., 2Science Research Center, Yamaguchi University)</p>	<p>3aC09 High time-resolution transcriptome analysis reveals a novel strategy of transcriptional regulation of xylem vessel cell differentiation <u>Atsushi Yamamoto</u><sup>1</sup>, Ryosuke Sano<sup>2</sup>, Taku Demura<sup>2,3</sup>, Misato Ohtani<sup>1,2,3</sup> (1Grad Sch Front Sci, Univ Tokyo, 2Div Biol Sci, Grad Sch Sci Tech, NAIST, 3RIKEN CSRS)</p>		<p>3aE09 <b>E</b> Understanding multiple association parasitism dynamics using root hemiparasite <i>Phtheirospermum japonicum</i> and host(s) <i>Arabidopsis thaliana</i> grown in split-root systems with isotope tracing <u>Clarissa F. Frederica</u><sup>1</sup>, Louis J. Irving<sup>2</sup> (1Grad. Sch. Sci. Tech., Univ. of Tsukuba, 2Fac. Life Environ. Sci., Univ. of Tsukuba)</p>
11:15	<p>3aA10 Phenotypic analysis of the Arabidopsis PsbP-D139N mutant generated by base-substitution genome editing <u>Ko Imaizumi</u><sup>1</sup>, Shin-ichi Arimura<sup>2</sup>, Kentaro Ifuku<sup>1</sup> (1Grad. Sch. Agric., Kyoto Univ., 2Grad. Sch. Agric. Life Sci., Univ. Tokyo)</p>	<p>3aB10 Analysis of SA &amp; JA Dose-dependent responses of <i>Arabidopsis</i> by large-scale transcriptome <u>Atsuki Tomita</u><sup>1,2</sup>, Taro Maeda<sup>2,3</sup>, Natsumi Mori-Moriyama<sup>3</sup>, Yasuyuki Nomura<sup>3</sup>, Yuko Kurita<sup>4</sup>, Makoto Kashima<sup>5</sup>, Masaru Tomita<sup>1</sup>, Shigeyuki Betsuyaku<sup>6</sup>, Atsushi J. Nagano<sup>2,3,6</sup> (1Dept. Env. &amp; Info. Studies., Keio Univ., 2IAB, Keio Univ., 3Res. Inst. Food Agr., Ryukoku Univ., 4Fac. Agr., Tokyo Univ., 5Faculty of Sci., Toho Univ., 6Fac. Agr., Ryukoku Univ.)</p>	<p>3aC10 <b>E</b> Functional analysis of microRNAs involved in xylem vessel cell differentiation in Arabidopsis <u>Chotiros Phaisomboon</u><sup>1,2</sup>, Tian Tian Tan<sup>3</sup>, Ryosuke Sano<sup>3</sup>, Taku Demura<sup>3,4</sup>, Misato Ohtani<sup>1,3,4</sup> (1Grad Sch Front Sci, Univ Tokyo, Japan, 2Inst Mol Biosci, Mahidol Univ, Thailand, 3Div Biol Sci, Grad Sch Sci Tech, NAIST, Japan, 4RIKEN CSRS, Japan)</p>		<p>3aE10 Elucidation of the mechanism of action of haustorium inhibitors using a model parasitic plant, <i>Phtheirospermum japonicum</i> <u>Saori Suga</u><sup>1</sup>, Ryoga Inoue<sup>1</sup>, Ayato Sato<sup>2</sup>, Takamasa Suzuki<sup>3</sup>, Satoko Yoshida<sup>1</sup> (1Bioscience, NAIST, 2ITbM., Univ. Nagoya, 3Grad. Biological Chemistry., Univ. Chubu)</p>

Room F	Room G	Room H	Room X	Room Y	Room Z	Time
Photoreceptors/Photoresponses	Biomembrane/ Ion and solute transport	Development/Morphogenesis	Genome function/Gene regulation			
<p>3aF06 UVB-induced chloroplast movement and its physiological significance <u>Momo Otake</u><sup>1</sup>, Noriyuki Suetsugu<sup>2</sup>, Atsushi Takemiya<sup>3</sup>, Eiji Gotoh<sup>4</sup>, Masamitsu Wada<sup>5</sup>, Jun Hidema<sup>1</sup> (1<sup>Grad. Sch. Life Sci., Tohoku Univ.</sup>, 2<sup>Grad. Sch. Arts Sci., Univ. Tokyo</sup>, 3<sup>Grad. Sch. Sci. Tech. for innov., Yamaguchi Univ.</sup>, 4<sup>Fac. Agr., Kyushu Univ.</sup>, 5<sup>Grad. Sch. Sci., Tokyo Metropolitan Univ.</sup>)</p>	<p>3aG06 Producing iron deficiency tolerant poplar by the introduction of iron reductase and nicotianamine synthase genes <u>Hiroshi Masuda</u><sup>1</sup>, Takumi Narita<sup>1</sup>, May Sann Aung<sup>1</sup>, Keisuke Maeda<sup>2</sup>, Shingo Sakamoto<sup>3</sup>, Takanori Kobayashi<sup>2</sup>, Mikiya Katsuta<sup>1</sup>, Atsushi Ogawa<sup>1</sup>, Hiroki Rai<sup>1</sup>, Takehiko Matsumoto<sup>1</sup>, Hiroyuki Hattori<sup>1</sup>, Nobutaka Mitsuda<sup>3</sup>, Naoko Nishizawa<sup>2</sup> (1<sup>Akita Pref. Univ.</sup>, 2<sup>Ishikawa Pref. Univ.</sup>, 3<sup>Adv. Ind. Sci. Tech (AIST)</sup>)</p>	<p>3aH06 Microscopic and pharmacological studies of nucleolar development during plant cell dedifferentiation in three different tissue culture systems <u>Ryuu Morikawa</u><sup>1</sup>, Takaaki Yonekura<sup>1</sup>, Hatsune Morinaka<sup>2</sup>, Shunji Shimadzu<sup>1,3</sup>, Yuki Kondo<sup>3</sup>, Iwai Ohbayashi<sup>4,5</sup>, Munetaka Sugiyama<sup>1</sup> (1<sup>Dept. Biol. Sci., Grad. Sch. Sci., Univ. Tokyo</sup>, 2<sup>CSRS, RIKEN</sup>, 3<sup>Dept. Biol., Grad. Sch. Sci., Kobe Univ.</sup>, 4<sup>Dept. Life Sci., Natl. Cheng Kung Univ.</sup>, 5<sup>Inst. Trop. Plant Sci. Microbiol., Natl. Cheng Kung Univ.</sup>)</p>	<p>3aX06 <b>E</b> SigF1-dependent activation of the <i>pilA1</i> promoter and the promoter sequence determinants in a cyanobacterium <i>Synechococcus elongatus</i> PCC 7942 <u>Ying Luo</u><sup>1,2</sup>, Yu Hirose<sup>3</sup>, Kan Tanaka<sup>2</sup> (1<sup>Sch. Life. Sci. and Tech., Tokyo Tech.</sup>, 2<sup>Chem. and Life. Sci., Inst. innov. Res., Tokyo Tech.</sup>, 3<sup>Dept of Appl. Chem. and Life Sci., Toyohashi Tech</sup>)</p>	Symposium S09 Bio-metal Strategies of Living Organisms (9:00-11:50)		10:15
<p>3aF07 Novel function of CDKA in regulation of light responses <u>Sakuta Miyazaki</u><sup>1</sup>, Natsumi Inoue<sup>2</sup>, Masaki Ishikawa<sup>3</sup>, Mitsuyasu Hasebe<sup>3</sup>, Masami Sekine<sup>4</sup>, Tomomichi Fujita<sup>2</sup> (1<sup>Grad Sch Life Sci, Hokkaido Univ.</sup>, 2<sup>Fac Sci, Hokkaido Univ.</sup>, 3<sup>Div Evol Biol., NIBB</sup>, 4<sup>Fac Bior Envi Sci, Ishikawa Pref Univ.</sup>)</p>	<p>3aG07 Autophagy forms Vertical Leaf Nitrogen Gradient in the Rice Plant Population on Paddy Fields contributing to Protein Degradation at Lower Leaves <u>Wataru Kikuchi</u>, Hiroyuki Ishida (Grad. Sch. Agri. Sci., Univ. Tohoku)</p>	<p>3aH07 MpRLF, a cytochrome <i>b<sub>5</sub></i>-like heme binding domain protein, is necessary for proper vegetative and reproductive development in <i>Marchantia polymorpha</i> <u>Kentaro Iwata</u><sup>1</sup>, Hinatamaru Fukumura<sup>1</sup>, Yuuki Sakai<sup>1</sup>, Tomoyuki Furuya<sup>1,2</sup>, Yuki Kondo<sup>1</sup>, Kimitsune Ishizaki<sup>1</sup>, Hidehiro Fukaki<sup>1</sup> (1<sup>Grad. Sch. Sci., Kobe Univ.</sup>, 2<sup>Col. Life Sci., Ritsumeikan Univ.</sup>)</p>	<p>3aX07 Sliding mechanism by 80S ribosome in the 5' untranslated region <u>Mayuki Tanaka</u><sup>1</sup>, Takeshi Yokoyama<sup>2,3</sup>, Hironori Saito<sup>4,5</sup>, Naoyuki Sotta<sup>6</sup>, Mikako Shirouzu<sup>3</sup>, Shintarou Iwasaki<sup>4,5</sup>, Takuhiro Ito<sup>3</sup>, Toru Fujiwara<sup>6</sup> (1<sup>Grad. Sch. Agr. Osaka Metropolitan Univ.</sup>, 2<sup>Grad. Sch. of Life Sci., Tohoku Univ.</sup>, 3<sup>Riken-BRD</sup>, 4<sup>Riken-CPR</sup>, 5<sup>Grad. Sch. of Front. Sci., Univ. of Tokyo</sup>, 6<sup>Grad. Sch. of Agri. and Life Sci., Univ. of Tokyo</sup>)</p>			10:30
<p>3aF08 Subcellular localization analysis of the B4-type Raf-like kinase PRAF in <i>Marchantia polymorpha</i> <u>Shota Yamauchi</u><sup>1</sup>, Nodoka Handa<sup>1</sup>, Asuka Shintaku<sup>2</sup>, Eri Koide<sup>2</sup>, Megumi Iwano<sup>2</sup>, Takayuki Kohchi<sup>2</sup>, Ryuichi Nishihama<sup>1</sup> (1<sup>Dept. Appl. Biol. Sci., Fac. Sci. and Tech., Tokyo Univ. of Sci.</sup>, 2<sup>Grad. Sch. Biostudies, Kyoto Univ.</sup>)</p>	<p>3aG08 OsZIP1 regulates phosphorus uptake and nitrogen utilization, contributing to improved yield <u>Nobuhiro Tanaka</u><sup>1</sup>, Saki Yoshida<sup>2</sup>, Saiful Islam<sup>2</sup>, Kiyoshi Yamazaki<sup>2</sup>, Toru Fujiwara<sup>2</sup>, Yoshihiro Ohmori<sup>3</sup> (1<sup>NARO Institute of crop science</sup>, 2<sup>Graduate School of Agricultural and Life Sciences, The University of Tokyo</sup>, 3<sup>Agricultural Bioinformatics Research Unit, Graduate School of Agricultural and Life Sciences, The University of Tokyo</sup>)</p>	<p>3aH08 Regulatory mechanisms and contribution of morphogenesis of plasma membrane H<sup>+</sup>-ATPase in the liverwort <i>Marchantia polymorpha</i> <u>Miya Mizutani</u><sup>1,2</sup>, Kotaro Nakane<sup>2</sup>, Okumura Masaki<sup>2</sup>, Tameo Yo<sup>2</sup>, Syu Tanaka<sup>2</sup>, Shin-ichiro Inoue<sup>2</sup>, Toru Fujiwara<sup>3</sup>, Takehiro Kamiya<sup>3</sup>, Naoyuki Sotta<sup>4</sup>, Ryuichi Nishihama<sup>4</sup>, Kimitsune Ishizaki<sup>5</sup>, Toshinori Kinoshita<sup>1,6</sup> (1<sup>NAIST-Div. of Bio. Sci.</sup>, 2<sup>Div. of Biol. Sci., Grad. Sch. of Sci., Nagoya Univ.</sup>, 3<sup>Dept. Appl. Biol. Chem. Grad. Sch. Agric. Life Sci. Univ. Tokyo</sup>, 4<sup>Dept. of Applied Biol. Sci., Fac. of Sci. Tech Tokyo Univ. of Sci.</sup>, 5<sup>Dept. of Bio., Grad. Sh. Of Sci., Kobe Univ.</sup>, 6<sup>WPI-ITbM, Nagoya Univ.</sup>)</p>	<p>3aX08 <b>E</b> Effect of ribosomal mutations that suppress the phenotype of a thermopermine-requiring mutant on the translation regulation of uORF-containing mRNAs in <i>Arabidopsis</i> <u>Tomohiko Toyoshima</u>, Yuichi Nishii, Kouki Mutsuda, Taku Takahashi (Grad. Sch., Univ. Okayama)</p>			10:45
<p>3aF09 AtCFI is essential for maintaining the diversity at the 3' ends of pre-mRNA Xiaojuan Zhang<sup>1</sup>, Lukasz Szewc<sup>2</sup>, Mateusz Bajczyk<sup>2</sup>, David Bielewicz<sup>3</sup>, Kei Yura<sup>4,5,6</sup>, Miku Odoi<sup>1</sup>, Mariko Kato<sup>1</sup>, Marta Garcia-León<sup>7</sup>, Vicente Rubio<sup>7</sup>, Mika Nomoto<sup>8</sup>, Yasuomi Tada<sup>8</sup>, Tsuyoshi Furumoto<sup>9</sup>, Zofia Szwejkowska-Kulińska<sup>2</sup>, Dorothee Staiger<sup>10</sup>, Takashi Aoyama<sup>1</sup>, Artur Jarmolowski<sup>2</sup>, <u>Tomohiko Tsuge</u><sup>1</sup> (1<sup>ICR, Kyoto Univ.</sup>, 2<sup>Inst. Mol. Biol. Biotech., Adam Mickiewicz Univ.</sup>, 3<sup>WCAT</sup>, 4<sup>Sch. Adv. Sci. Eng., Waseda Univ.</sup>, 5<sup>Grad. Sch. Humanit. Sci., Ochanomizu Univ.</sup>, 6<sup>Ctr. Interdiscip. AI and Data Sci., Ochanomizu Univ.</sup>, 7<sup>CNB-CSIC</sup>, 8<sup>Ctr. Gene Res., Nagoya Univ.</sup>, 9<sup>Sch. Agric., Ryukoku Univ.</sup>, 10<sup>Biology, Bielefeld Univ.</sup>)</p>	<p>3aG09 Development of a method for collection of rice phloem sap by a DIY insect-laser device <u>Naoki Yamaji</u>, Tomonori Shinya, Namiki Mitani-Ueno, Ivan Galis, Jian Feng Ma (IPSR, Okayama Univ.)</p>	<p>3aH09 Comprehensive analysis of a chromatin remodeling factor involved in <i>de novo</i> shoot regeneration in plants <u>Avaka Horie</u><sup>1</sup>, Takuya Sakamoto<sup>2</sup>, Hikaru Sato<sup>1</sup>, Yayoi Inui<sup>1</sup>, Yutaka Suzuki<sup>3</sup>, Sachihiko Matsunaga<sup>1</sup> (1<sup>Dept. Integr. Biosci., Grad. Sch. Front. Sci., Univ. Tokyo</sup>, 2<sup>Dept. Sci., Fac. Sci., Kanagawa Univ.</sup>, 3<sup>Dept. Comput. Biol. Med. Sci., Grad. Sch. Front. Sci., Univ. Tokyo</sup>)</p>	<p>3aX09 Thermopermine-insensitive mutations affect mRNA translation of the <i>SAC51</i> family genes in <i>Arabidopsis</i> <u>Mitsuru Sarai</u>, Takahiro Tanaka, Taku Takahashi (Grad. Sch. Sci., Univ. Okayama)</p>			11:00
<p>3aF10 Non-enzymatic Production of Bilirubin in Chloroplasts <u>Kazuya Ishikawa</u><sup>1,2</sup>, Xiaonan Xie<sup>1</sup>, Atsushi Miyawaki<sup>3</sup>, Keiji Numata<sup>4,5</sup>, Yutaka Kodama<sup>2,5</sup> (1<sup>Grad. Sch. Med. Dent. Pharm., Okayama Univ.</sup>, 2<sup>Ctr. Biosci. Res. Educ., Utsunomiya Univ.</sup>, 3<sup>CBS, RIKEN</sup>, 4<sup>Dept. Eng., Kyoto Univ.</sup>, 5<sup>CSRS, RIKEN</sup>)</p>	<p>3aG10 Functional analysis of Na<sup>+</sup>-coupled phosphate transporter of <i>Chara braunii</i> <u>Tetsuro Mimura</u><sup>1,2</sup>, Hitomi Fujiwara<sup>2</sup>, Naoki Muranishi<sup>2</sup>, Miwa Ohnishi<sup>2,3</sup>, Tomoaki Nishiyama<sup>4</sup>, Satomi Kanno<sup>5</sup>, Kimitsune Ishizaki<sup>2</sup>, Hidehiro Fukaki<sup>2</sup>, Hidetoshi Sakayama<sup>2</sup>, Robert Reid<sup>6</sup>, Maki Katsuhara<sup>7</sup> (1<sup>KUAS, Fac Bioenviron Sci</sup>, 2<sup>Kobe Univ, Grad Sch Sci</sup>, 3<sup>Kyoto Univ, Grad Sch Sci</sup>, 4<sup>Kanazawa Univ, ReCEMHD</sup>, 5<sup>Nagoya Univ, Inst Adv Res</sup>, 6<sup>Fac Sci Eng Tech, Univ Adelaide</sup>, 7<sup>Okayama Univ, IPSR</sup>)</p>	<p>3aH10 Exploring interacting factors with a histone demethylase LDL3 <u>Nodoka Handa</u><sup>1</sup>, Hikaru Sato<sup>1</sup>, Takuya Sakamoto<sup>2</sup>, Akira Nozawa<sup>3</sup>, Tatsuya Sawasaki<sup>3</sup>, Sachihiko Matsunaga<sup>1</sup> (1<sup>Dept. Integr. Biosci., Grad. Sch. Front. Sci., Univ. Tokyo</sup>, 2<sup>Dept. Sci., Fac. Sci., Kanagawa Univ.</sup>, 3<sup>PROS, Ehime Univ.</sup>)</p>	<p>3aX10 <b>E</b> An Inner Dinucleosome Compartment <u>Joseph Tin Yum Wong</u>, Alvin Chun Man Kwok, Kosmo Hing Ting Yan, Chongping Li (Hong Kong University of Science And Technology)</p>	11:15		

● Day 3, Tue., March 19, AM (9:00–12:00)

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis	Plant hormones/ Signaling molecules	Cell wall	Cell cycle/Cell division	Plant-organism interaction B
11:30	<p>3aA11 Pleiotropic physiological functions of FZL, a thylakoid-localized dynamin-like protein <u>Yu Ogawa</u><sup>1</sup>, Megumi Iwano<sup>2</sup>, Akihiro Kawamoto<sup>3</sup>, Genji Kurisu<sup>3</sup>, Toshiharu Shikanai<sup>4</sup>, Wataru Sakamoto<sup>1</sup> (<sup>1</sup>IPSR, Okayama Univ., <sup>2</sup>Grad. Sch. Bio., Kyoto Univ., <sup>3</sup>IPR, Osaka Univ., <sup>4</sup>Grad. Sch. Sci., Kyoto Univ.)</p>	<p>3aB11 Analysis for the novel factor BIL7 regulating transcription factor in BR signaling pathway <u>Kaisei Nishida</u><sup>1</sup>, Yusuke Nakamura<sup>1</sup>, Ayumi Yamagami<sup>1</sup>, Takehiro Suzuki<sup>2</sup>, Takuya Miyakawa<sup>1</sup>, Minami Matsui<sup>2</sup>, Shozo Fujioka<sup>2</sup>, Tadao Asami<sup>3</sup>, Takeshi Nakano<sup>1</sup> (<sup>1</sup>Grad. Sch. Sci., Univ. Kyoto, <sup>2</sup>Riken-CSRS, <sup>3</sup>Grad. Sch. Crop., Univ. Tokyo)</p>	<p>3aC11 ㊦ Xyloglucan endotransglucosylase/hydrolase genes may contribute to tissue adhesion during graft healing <u>Mu Xiong</u><sup>1,2</sup>, Ting Zhang<sup>1</sup>, Xin Qian<sup>1</sup>, Ling Li<sup>1</sup>, Zhilong Bie<sup>1</sup>, Ken-ichi Kurotani<sup>3</sup>, Yuan Huang<sup>1</sup>, Michitaka Notaguchi<sup>2,3,4</sup> (<sup>1</sup>Grad. Sch. Hort. For., Univ. Huazhong Agri., <sup>2</sup>Grad. Sch. Bioagri. Sci., Univ. Nagoya, <sup>3</sup>Biosci. Biotech. Center, Univ. Nagoya, <sup>4</sup>Grad. Sch. Sci., Univ. Kyoto)</p>		<p>3aE11 Analysis of Invasion Mechanism of Parasitic Plant, <i>Phtheirospermum japonicum</i> <u>Chiharu Ito</u><sup>1</sup>, Songkui Cui<sup>2</sup>, Takamasa Suzuki<sup>3</sup>, Satoko Yoshida<sup>1</sup> (<sup>1</sup>Bio. sci., NAIST, <sup>2</sup>KIB, <sup>3</sup>Bio. sci. and Biotech., Chubu Univ.)</p>
11:45		<p>3aB12 Functional analysis of a strigolactone receptor D14 of <i>Fragaria</i> in vegetative reproduction <u>Rino Yoshida</u><sup>1</sup>, Tomoko Miyaji<sup>2</sup>, Taiko Kim Tou<sup>1</sup>, Anzu Minami<sup>3,4</sup>, Keiichi Mochida<sup>3,4</sup>, Tadaomi Furuta<sup>1</sup>, Satoshi Kidokoro<sup>1</sup>, Keishi Osakabe<sup>2</sup>, Yuriko Osakabe<sup>1</sup> (<sup>1</sup>Sch. of Life Sci. &amp; Tech., Tokyo Tech., <sup>2</sup>Grad. Sch. of Tech., Ind. &amp; Soc. Sci., Tokushima Univ., <sup>3</sup>RIKEN CSRS, <sup>4</sup>Kihara Institute for Biological Research, Yokohama City Univ.)</p>	<p>3aC12 ㊦ Chemical screening to identify graft promoting molecules in Fabaceae <u>Qiangian Luo</u><sup>1</sup>, Xueyao Shu<sup>1</sup>, Ayato Sato<sup>2</sup>, Yaichi Kawakatsu<sup>3</sup>, Ryoko Morinobe<sup>1</sup>, Lalita Jantean<sup>1</sup>, Hejin Son<sup>1</sup>, Ken-ichi Kurotani<sup>3</sup>, Michitaka Notaguchi<sup>1,3,4</sup> (<sup>1</sup>Grad. Sch. Bioagri. Sci., Univ. Nagoya, <sup>2</sup>Inst ITbM., Univ. Nagoya, <sup>3</sup>Biosci Biotech Center., Univ. Nagoya, <sup>4</sup>Grad. Sch. Sci., Univ. Kyoto)</p>		<p>3aE12 Gene expression analysis of light-dependent host recognition in the parasitic plant <i>Cuscuta campestris</i> <u>Toshiya Yokoyama</u><sup>1</sup>, Akira Watanabe<sup>2</sup>, Mariko Asaoka<sup>2</sup>, Kazuhiko Nishitani<sup>2</sup> (<sup>1</sup>Grad. Sch. Sci., Kanagawa Univ., <sup>2</sup>Fac. Sci., Kanagawa Univ.)</p>





● Day 3, Tue., March 19, PM (13:30–16:30)

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis				Plant-organism interaction B
13:30	<p>3pA01 Arabidopsis <i>gln2-3</i> mutant is semi-acclimated to photorespiratory environments for photosynthesis <u>Hayato Sato</u><sup>1</sup>, Shinya Wada<sup>1</sup>, Keiki Ishiyama<sup>2</sup>, Haruka Kitagawa<sup>1</sup>, Takanori Maruta<sup>3</sup>, Chikahiro Miyake<sup>1</sup> (1Grad. Sch. Agri. Sci., Univ. Kobe, 2Grad. Sch. Agri. Sci., Univ. Tohoku, 3Fac. Life Environ. Sci., Univ. Shimane)</p>				<p>3pE01 Elucidating the potential adaptability of algae in fish embryos <u>Yoji Okabe</u><sup>1</sup>, Shoji Oda<sup>1</sup>, Kintake Sonoike<sup>2</sup>, Yayoi Tsujimoto-Inui<sup>1</sup>, Tomoko Matsunaga<sup>1</sup>, Shinichiro Maruyama<sup>1</sup>, Sachihito Matsunaga<sup>1</sup> (1Grad. Sch. Front. Sci., Univ. Tokyo, 2Fac. Edu., Waseda Univ.)</p>
13:45	<p>3pA02 CCM expression response of marine diatom under nitrogen deprivation <u>Momoka Amano</u>, Ginga Shimakawa, Yusuke Matsuda (Grad. Sch. Biosci., Kwansai Gakuin Univ.)</p>				<p>3pE02 Environmental response of kleptoplastic sea slug based on comparative omics analysis <u>Taro Maeda</u><sup>1</sup>, Masaru Mori<sup>2</sup>, Atsushi J. Nagano<sup>1,3</sup> (1IAB, Keio Univ., 2Fac. Agri., Ryukoku Univ., 3Inst. Innov. Fut. Soc., Nagoya Univ.)</p>
14:00	<p>3pA03 <b>E</b> Fluorescence transient shape provide information on phytoplankton growth rate, pigment content, and photoacclimation strategy <u>Matthew Brown</u>, Yusuke Matsuda (Kwansai Gakuin University)</p>				<p>3pE03 <b>E</b> Genome-wide association study of rice cultivation related with iron-reducing bacteria abundance in paddy soils <u>Li-Yen Lin</u><sup>1</sup>, Zhihang Feng<sup>1</sup>, Hikaru Asano<sup>2</sup>, Yoshihiro Ohmori<sup>3</sup>, Hirotomo Ohba<sup>4</sup>, Yoko Masuda<sup>1,5</sup>, Keishi Senoo<sup>1,5</sup>, Toru Fujiwara<sup>1</sup> (1Grad. Sch. Agr. Life Sci., Univ. Tokyo, 2Tokyo Coll. Biotech., 3Agri. Bioinfo. Res. Unit, Grad. Sch. Agr. Life Sci., Univ. Tokyo, 4Niigata Agr. Res. Inst., 5Collab. Res. Inst. Innov. Micro., Univ. Tokyo)</p>
14:15	<p>3pA04 The role of the Tyr stacked on the FAD in ferredoxin-NADP<sup>+</sup> oxidoreductase: regulation of photosensitivity and stabilization of FAD hydroquinone <u>Daisuke Seo</u> (Grad. Sch. Nat. Sci. Tec., Kanazawa Univ.)</p>				<p>3pE04 Immune receptor and symbiosis regulator-mediated root colonization of a plant growth-promoting bacterium in rice <u>Masahiro Nagayasu</u><sup>1</sup>, Kanako Inoue<sup>1</sup>, Shota Kido<sup>1</sup>, Masanao Sato<sup>2</sup>, Masako Fujii<sup>1</sup>, Yushin Suzuki<sup>1</sup>, Takumi Murakami<sup>3</sup>, Mutsumi Watanabe<sup>1</sup>, Takayuki Tohge<sup>1</sup>, Yusuke Saijo<sup>1</sup> (1Grad. Sch. Sci and Tech., NAIST, 2Grad Sch Agri., Hokkaido University, 3Sch. Life Sci. and Tech., Tokyo Tech)</p>
14:30	<p>3pA05 A novel secretion system of chlorophyll intermediates via extracellular vesicles in the cyanobacterium <i>Leptolyngbya boryana</i> <u>Kentaro Usui</u><sup>1</sup>, Haruki Yamamoto<sup>1</sup>, Takao Oi<sup>1</sup>, Mitsutaka Taniguchi<sup>1</sup>, Hitoshi Mori<sup>1,2</sup>, Yuichi Fujita<sup>1</sup> (1Gra. Sch. Bioagr., Univ. Nagoya, 2Inst. Glyco. Res. Univ. Nagoya)</p>				<p>3pE05 Regulation of nodule development in <i>Rhizobium - Lotus</i> interaction <u>Yasuyuki Kawaharada</u> (Facul. of Agri., Iwate Univ.)</p>
14:45	<p>3pA06 Assessment of Electron Influx into Photosystem I and Photoinhibition of Photosystem I under Chilling Stress Using a Saturating Light Pulse <u>Ko Takeuchi</u><sup>1</sup>, Shintaro Harimoto<sup>2</sup>, Shinya Wada<sup>3</sup>, Chikahiro Miyake<sup>3</sup>, Kentaro Ifuku<sup>1</sup> (1Grad. Sch. Agri., Kyoto Univ., 2Fac. Agri., Kyoto Univ., 3Grad. Sch. Agri., Kobe Univ.)</p>				<p>3pE06 <b>E</b> Relationship between the plant cell wall and the symbiotic microbes in the infection process, focusing on <i>COBRA</i> genes in <i>Lotus japonicus</i> <u>Daniela Romero Montero</u>, Akira Akamatsu, Naoya Takeda (Kwansai Gakuin University)</p>

Room F	Room G	Room H	Room X	Room Y	Room Z	Time	
Flowering/Clock		Development/Morphogenesis					
<p><b>3pF01</b> Evolution of the photoperiod-dependent growth phase transition mechanisms in land plants <u>Yoshihiro Yoshitake</u><sup>1</sup>, Shogo Kawamura<sup>1</sup>, Tomoaki Kajiwara<sup>1</sup>, Ryuichi Nishihama<sup>1,2</sup>, Shohei Yamaoka<sup>1</sup>, Takayuki Kohchi<sup>1</sup> (<sup>1</sup>Grad. Sch. of Biostudies., Kyoto Univ., <sup>2</sup>Dept. Appl. Biol. Sci., Fac. Sci. Tech., Tokyo Univ. Sci.)</p>		<p><b>3pH01</b> Genetic Analysis of Leaf Morphology in <i>Chrysanthemum seticosuspe</i> <u>Koichi Toyokura</u><sup>1</sup>, Yudai Fujita<sup>1</sup>, Michiharu Nakano<sup>1,2</sup>, Toshiaki Kozuka<sup>1,3</sup>, Yuki Aruga<sup>1</sup>, Kenji Taniguchi<sup>1</sup>, Makoto Kusaba<sup>1</sup> (<sup>1</sup>Grad. Sch. Integr. Sci. Life, Hiroshima Univ., <sup>2</sup>Fac. Agri. Marine Sci., Kochi Univ., <sup>3</sup>COI-NEXT, College Sci. Eng., Kanazawa Univ.)</p>		Symposium S10 [English] Multi-layered Regulation of Plastid and Mitochondrial genomes and gene expression (13:30–16:30)		13:30	
<p><b>3pF02</b> Exploration of genes that link the circadian clock and flower opening of the Japanese morning glory (<i>Pomoea nil</i>) <u>Soya Nakagawa</u><sup>1,2</sup>, Hiroyo Nishide<sup>1</sup>, Sachiko Tanaka<sup>1</sup>, Atsushi Hoshino<sup>1,2</sup> (<sup>1</sup>NIBB, <sup>2</sup>Sch. Life Sci., SOKENDAI)</p>		<p><b>3pH02</b> Arabidopsis HOOKLESS1 controls leaf senescence in a non-cell autonomous manner <u>Takashi Nobusawa</u>, Makoto Kusaba (Grad. Sch. Int. Sci. Life, Hiroshima Univ.)</p>					13:45
<p><b>3pF03</b> <b>E</b> Decoding Circadian Clock Genes In Chrysanthemums For Heat-Resilient Flowering <u>Kavya Jayanthan</u><sup>1</sup>, SharathKumar Malleshaiah<sup>2,3</sup>, Tamotsu Hisamatsu<sup>4</sup>, Yohei Higuchi<sup>1</sup> (<sup>1</sup>GSALS, The University of Tokyo, Japan, <sup>2</sup>HPP, Wageningen University and Research, The Netherlands, <sup>3</sup>Deliflor Chrysanthemum B.V, The Netherlands, <sup>4</sup>Institute of Vegetable and Floriculture Science, NARO, Japan)</p>		<p><b>3pH03</b> <b>E</b> ATML1 Transcription Factor Regulates the Leaf ER Body Formation in Large Pavement Cells <u>Alwine Wilkens</u><sup>1</sup>, Mohamadreza Mirzaei<sup>1,2</sup>, <u>Kenji Yamada</u><sup>1</sup> (<sup>1</sup>Malopolska Cent. Biotec., Jagiellonian Univ., <sup>2</sup>Doct. Sch. Exact Nat. Sci., Jagiellonian Univ.)</p>					14:00
<p><b>3pF04</b> Quantitative changes in PRR5/TOC1 protein are important to keep the period length at physiologically relevant temperatures <u>Akari Maeda</u>, Hiromi Matsuo, Tomoaki Muranaka, Norihito Nakamichi (Grad. Sch. Bio-Agric., Nagoya Univ.)</p>		<p><b>3pH04</b> <b>E</b> Submergence-Induced Epidermal Cell Chloroplasts Differentiation in <i>Rorippa Aquatica</i> <u>Dwi Fajar Sidhiq</u><sup>1</sup>, Shuka Ikematsu<sup>2,3</sup>, Seisuke Kimura<sup>2,3</sup> (<sup>1</sup>Grad. Sch. Life Sci., Kyoto Sangyo Univ., <sup>2</sup>Fac. Life Sci., Kyoto Sangyo Univ., <sup>3</sup>Center for Plant Sci., Kyoto Sangyo Univ.)</p>					14:15
<p><b>3pF05</b> <b>E</b> Circadian and environmental signal integration in a natural population of <i>Arabidopsis</i> <u>Haruki Nishio</u><sup>1,2</sup>, Dora L. Cano-Ramirez<sup>3,4</sup>, Tomoaki Muranaka<sup>5</sup>, Luiza Lane de Barros Dantas<sup>6</sup>, Mie N. Honjo<sup>1</sup>, Jiro Sugisaka<sup>1</sup>, Hiroshi Kudoh<sup>1</sup>, Antony N. Dodd<sup>6</sup> (<sup>1</sup>CER, Kyoto Univ., <sup>2</sup>DS Center, Shiga Univ., <sup>3</sup>SL, Univ. Cambridge, <sup>4</sup>Sch. Biol. Sci., Univ. Bristol, <sup>5</sup>Grad. Sch. Bioagri. Sci., Nagoya Univ., <sup>6</sup>Dep. Cell Dev. Biol., John Innes Centre)</p>		<p><b>3pH05</b> Effect of environmental conditions on seed germination and seedling growth of <i>Cuscuta campestris</i> <u>Koki Nagao</u><sup>1</sup>, Taku Takahashi<sup>1</sup>, Ryusuke Yokoyama<sup>2</sup> (<sup>1</sup>Grad. Sch. Sci., Univ. Okayama, <sup>2</sup>Grad. Sch. Sci., Univ. Tohoku)</p>					14:30
<p><b>3pF06</b> Formularization of the Non-cell-autonomous Circadian Rhythm Component Generally Found in Time Series of the Bioluminescence Reporter Activity in Duckweed Plants <u>Yu Horikawa</u><sup>1</sup>, Emiri Watanabe<sup>2</sup>, Di Luo<sup>1</sup>, Shogo Ito<sup>1</sup>, Tokitaka Oyama<sup>1</sup> (<sup>1</sup>Grad. Sch. Sci., Kyoto Univ., <sup>2</sup>Grad. Sch. Fron. Sci., Univ. Tokyo)</p>		<p><b>3pH06</b> TCP-signaling pathways in the regulation of cell expansion in <i>Arabidopsis thaliana</i> <u>Tomotsugu Koyama</u><sup>1</sup>, Nobutaka Mitsuda<sup>2</sup>, Motoaki Seki<sup>3</sup>, Koji Takahashi<sup>4,5</sup>, Toshinori Kinoshita<sup>4,5</sup>, Ayumu Bessho<sup>6</sup>, Tadashi Kunieda<sup>6,7</sup>, Taku Demura<sup>6,7</sup>, Masaru Ohme-Takagi<sup>8</sup> (<sup>1</sup>Suntory Foundation for Life Sciences, <sup>2</sup>AIST, Bioproduction Research Institute, <sup>3</sup>RIKEN, Center for Sustainable Resource Science, <sup>4</sup>Nagoya University, Graduate School of Science, <sup>5</sup>Nagoya University, ITbM, <sup>6</sup>Nara Institute of Science and Technology, Division of Biological Science, <sup>7</sup>Nara Institute of Science and Technology, Center for Digital Green-innovation, <sup>8</sup>Saitama University, Graduate School of Science and Engineering)</p>					14:45

● Day 3, Tue., March 19, PM (13:30–16:30)

Time	Room A	Room B	Room C	Room D	Room E
	Photosynthesis				Plant-organism interaction B
15:00	<p>3pA07 Carboxylate ligand formation by post-translational conversion of aliphatic amino acids in the photosynthetic O<sub>2</sub>-evolving complex <u>Hatsune Mizue</u><sup>1</sup>, Takehiro Suzuki<sup>2</sup>, Takumi Matsubara<sup>1</sup>, Tomomi Kitajima-Ihara<sup>1</sup>, Minako Hirano<sup>1</sup>, Yuichiro Shimada<sup>1</sup>, Yuki Kato<sup>1</sup>, Naoshi Dohmae<sup>2</sup>, Takumi Noguchi<sup>1</sup> (<sup>1</sup>Grad. Sch. Sci., Univ. Nagoya, <sup>2</sup>RIKEN CSRS)</p>				<p>3pE07 The Role of <i>cis-trans</i> isomerase Cyclophilin in Rhizobial Infection <u>Takashi Goto</u><sup>1</sup>, Yasuyuki Kawaharada<sup>2</sup>, Masayoshi Kawaguchi<sup>1,3</sup> (<sup>1</sup>National Institute for Basic Biology, <sup>2</sup>Iwate University, <sup>3</sup>The Graduate University for Advanced Studies)</p>
15:15	<p>3pA08 Construction of F<sub>N</sub>-less Mutant Photosynthetic Reaction Center Complex in the Green Sulfur Bacterium <i>Chlorobaculum tepidum</i> <u>Tomomi Inagaki</u><sup>1</sup>, Yukie Kojima<sup>2</sup>, Kazuki Terauchi<sup>1</sup>, Chihiro Azai<sup>2</sup> (<sup>1</sup>Graduate School of Life Sciences, Ritsumeikan University, <sup>2</sup>Graduate School of Science and Engineering, Chuo University)</p>				<p>3pE08 Role of cysteinyl-tRNA synthetase of <i>Mesorhizobium loti</i> in root nodule symbiosis with <i>Lotus japonicus</i> <u>Mitsutaka Fukudome</u><sup>1</sup>, Asuka Ikuta<sup>1</sup>, Mika Nomura<sup>1</sup>, Toshiki Uchiumi<sup>2</sup> (<sup>1</sup>Fac. of Agri. Kagawa Univ., <sup>2</sup>Grad. Sch. of Sci. and Eng. Kagoshima Univ.)</p>
15:30					<p>3pE09 A phylogenetically-inferred genome-wide CRE search found <i>PUB1</i> as a target of CYCLOPS <u>Akihiro Yamazaki</u>, Kai Battenberg, Makoto Hayashi (RIKEN)</p>
15:45					<p>3pE10 Expression analysis of sucrose transporter genes in <i>Lotus japonicus</i> overmodulation mutants <u>Kensuke Kawade</u><sup>1</sup>, Nao Okuma<sup>2</sup>, Masayoshi Kawaguchi<sup>3,4</sup> (<sup>1</sup>Grad. Sch. Sci. Engin., Saitama Univ., <sup>2</sup>RIKEN BRC, <sup>3</sup>Division Symbio. Systems, NIBB, <sup>4</sup>Sch. Life Sci., Grad. Univ. Advance. Stud. (SOKENDAI))</p>
16:00					<p>3pE11 Control of nitrogen metabolism under non-symbiotic conditions by the HAR1 receptor that regulates the number of nodules <u>Nao Okuma</u><sup>1</sup>, Daisuke Sugiura<sup>2</sup>, Ichiro Terashima<sup>3</sup>, Masayoshi Kawaguchi<sup>4,5</sup> (<sup>1</sup>RIKEN BRC, <sup>2</sup>Grad. Sch. Bioagricultural Sci., Nagoya Univ., <sup>3</sup>Grad. Sch. Sci., Univ. Tokyo, <sup>4</sup>NIBB, <sup>5</sup>SOKENDAI)</p>
16:15					

Room F	Room G	Room H	Room X	Room Y	Room Z	Time
Flowering/Clock		Development/Morphogenesis				
<p><b>3pF07</b> Functional analysis of endogenous <i>cis</i>-elements involved in the regulation of Arabidopsis <i>FT</i> gene expression Natsumi Ono<sup>1</sup>, Aoha Miki<sup>2</sup>, Mayuka Yamamoto<sup>2</sup>, Akito Yoshida<sup>2</sup>, Katsuya Negishi<sup>3</sup>, Masaki Endo<sup>4</sup>, Masaki Kobayashi<sup>5</sup>, Kappei Kobayashi<sup>1</sup>, Seiichi Toki<sup>4,6,7,8</sup>, Mitsutomo Abe<sup>9</sup>, Hidetaka Kaya<sup>1</sup> (1Grad. Sch. Agri., Ehime Univ., 2Fac. Agri., Ehime Univ., 3NIFTS, NARO, 4NIAS, NARO, 5Forestry Division, JIRCAS, 6Fac. Agri., Ryukoku Univ., 7Grad. Sch. of Nanobioscience, Yokohama City Univ., 8Kihara Institute for Biological Research, Yokohama City Univ., 9Grad. Sch. Arts and Sci., The Univ. of Tokyo)</p> <p><b>3pF08</b> Low temperature represses FT transport at the shoot apical meristem through abscisic acid signaling Yusuke Murata, Mitsutomo Abe (Grad. Sch. Arts and Sci., Univ. Tokyo)</p> <p><b>3pF09</b> <b>E</b> Characteristics of <i>FLOWERING LOCUS T</i>-expressing phloem companion cells at single-cell resolution Hirosaki Takagi<sup>1,2</sup>, Takato Imaizumi<sup>1,2</sup> (1Department of Biology, University of Washington, 2Center for Gene Research, Nagoya University)</p> <p><b>3pF10</b> Liquid-liquid phase separation analysis of florigen activation complex to elucidate the flowering regulating mechanism Mayu Enomoto<sup>1</sup>, Suai Anzawa<sup>1</sup>, Yuka Koizumi<sup>1</sup>, Kyoko Furuita<sup>2</sup>, Kennehiro Taoka<sup>3,4</sup>, Keiji Nishida<sup>4</sup>, Akihiko Kondo<sup>4</sup>, Takashi Kodama<sup>2</sup>, Toshimichi Fujiwara<sup>2</sup>, Hiroyuki Tsuji<sup>3,5</sup>, Chojiro Kojima<sup>1,2</sup> (1Grad. Sci., YNU, 2IPR, Univ. Osaka, 3KIBR, YCU, 4EGBRC, Univ. Kobe, 5BBC, Univ. Nagoya)</p>		<p><b>3pH07</b> Evo-devo study on the evolution of angiosperm leaf with <i>Amborella trichopoda</i> and Arabidopsis transcriptome and genome data Hokuto Nakayama, Hirokazu Tsukaya (Grad. Sch. Sci., The Univ. Tokyo)</p> <p><b>3pH08</b> Cell fate for the internode is established last among organs in a phytomer in rice Katsutoshi Tsuda<sup>1,2</sup>, Akiteru Maeno<sup>1</sup>, Ken-ichi Nonomura<sup>1,2</sup> (1National Institute of Genetics, 2SOKENDAI)</p> <p><b>3pH09</b> <b>E</b> Roles of a Conserved Peptide Signaling Module in Thallus Development in the liverwort <i>Marchantia polymorpha</i> Chihiro Furumizu<sup>1</sup>, Hidefumi Shinohara<sup>2</sup>, Mio Sasaki<sup>3</sup>, Shinichiro Sawa<sup>4</sup> (1N-BARD, Hiroshima Univ., 2Dept. Biosci. Biotech., Fukui Pref. Univ., 3Sch. Eng., Hiroshima Univ., 4IRCAEB, Kumamoto Univ.)</p> <p><b>3pH10</b> <i>GROM</i>, the target of GCAM1 regulates sexual reproductive organ development as well as gemma cup formation in <i>Marchantia polymorpha</i> Hirotsuka Kato<sup>1,2</sup>, Yukiko Yasui<sup>1,3</sup>, Yuki Kondo<sup>1</sup>, Hidehiro Fukaki<sup>1</sup>, Tetsuro Mimura<sup>1,4</sup>, Kimitsune Ishizaki<sup>1</sup> (1Grad. Sch. Sci., Kobe Univ., 2Grad. Sch. Sci. Eng., Ehime Univ., 3Grad. Sch. Biostudies, Kyoto Univ., 4Fac. Bioenviron Sci, KUAS)</p> <p><b>3pH11</b> Comparative genomic analysis of monoicous and dioicous liverworts to understand the evolution of sex chromosomes Yukiko Yasui<sup>1</sup>, Giacomo Potente<sup>2</sup>, Eita Shimokawa<sup>1</sup>, Yuka Umeya<sup>1</sup>, Tomoha Tanaka<sup>1</sup>, Shogo Kawamura<sup>1</sup>, Katsuyuki T. Yamato<sup>3</sup>, Katsushi Yamaguchi<sup>4</sup>, Shuji Shigenobu<sup>4</sup>, Masaki Shimamura<sup>5</sup>, Péter Szövényi<sup>2</sup>, Takayuki Kohchi<sup>1</sup> (1Grad. Sch. Biostudies, Kyoto Univ., 2Dept. Systematic and Evolutionary Botany, Univ. Zurich, 3Fac. Biol. Sci. Technol., Kindai Univ., 4Trans-Omics Fac., NIBB, 5Grad. Sch. Integ. Sci. Life, Hiroshima Univ.)</p> <p><b>3pH12</b> Analysis of season-specific sexual differentiation mechanisms in a monoicous liverwort <i>Marchantia quadrata</i> Tomoha Tanaka<sup>1</sup>, Eita Shimokawa<sup>1</sup>, Chikako Inoue<sup>1</sup>, Masaki Shimamura<sup>2</sup>, Takayuki Kohchi<sup>1</sup>, Yukiko Yasui<sup>1</sup> (1Grad. Sch. Biostudies, Kyoto Univ., 2Integrated Sciences for Life, Hiroshima Univ.)</p>		Symposium S10 [English] Multilayered Regulation of Plastid and Mitochondrial genomes and gene expression (13:30–16:30)		15:00
						15:15
						15:30
						15:45
						16:00
						16:15

# List of Chairpersons of Oral Presentations

## Day 1 Sun., March 17, AM

1aA01-1aA11 Photosynthesis Ichiro Terashima  
Haruhiko Jimbo  
Ginga Shimakawa

1aB01-1aB12 Environmental response A/Physiological responses  
Satoko Yoshida  
Daisuke Takagi  
Kensuke Kusumi

1aC01-1aC12 Organelles/Cytoskeleton  
Yusuke Kobayashi  
Yasuko Inaba  
Takeshi Nakano

1aD01-1aD10 New technology Hikaru Sato  
Toshinori Kinoshita  
Daisuke Miki

1aE01-1aE12 Systems biology Kenya Tanaka  
Keita Tamura  
Hiroki Yagi

1aF01-1aF12 Environmental response B/Environmental stresses  
Ko Noguchi  
Minoru Ueda  
Takahisa Ogawa

1aG01-1aG12 Primary metabolism Keina Monda  
Miho Sanagi  
Nobuyuki Takatani

1aH01-1aH12 Development/Morphogenesis  
Chihiro Furumizu  
Yuki Hirakawa  
Hokuto Nakayama

## Day 1 Sun., March 17, PM

1pA01-1pA11 Photosynthesis Shinji Masuda  
Haruki Yamamoto  
Yukako Hihara

1pB01-1pB07 Environmental response A/Physiological responses  
Yohei Takahashi  
Koh Aoki

1pC01-1pC12 Organelles/Cytoskeleton  
Saku Kijima  
Masayoshi Nakamura  
Hirotomo Takatsuka

1pD01-1pD12 Reproduction Emiko Yoro  
Ryushiro Kasahara  
Daichi Susaki

1pE01-1pE11 Plant-organism interaction A  
Kohji Yamada  
Tatsuya Nobori  
Yoji Kawano

1pF01-1pF12 Environmental response B/Environmental stresses  
Kohki Yoshimoto  
Yoichi Sakata  
Miki Fujita

1pG01-1pG11 Primary metabolism/Specialized (secondary)  
metabolism/Plant hormones/Signaling molecules  
Ryosuke Munakata  
Mariko Asaoka  
Miyako Kusano

1pH01-1pH12 Development/Morphogenesis  
Takashi Ishida  
Hiromasa Shikata  
Tatsuaki Goh

## Day 2 Mon., March 18, AM

2aA01-2aA11 Photosynthesis Yuki Kato  
Yuki Okegawa  
Yuri Munekage

2aB01-2aB07 Plant hormones/Signaling molecules  
Masashi Asahina  
Tsuyoshi Aoyama

2aC01-2aC12 Organelles/Cytoskeleton/Membrane trafficking  
Emi Ito  
Masanori Izumi  
Junpei Takagi

2aD01-2aD12 Reproduction Keisuke Inoue  
Naoya Sugi  
Atsuko Kinoshita

2aE01-2aE11 Plant-organism interaction A  
Shigetaka Yasuda  
Ayako Tsushima  
Mina Ohtsu

2aF01-2aF11 Environmental response B/Environmental stresses  
Katsuhiro Shiono  
Yoshiharu Y. Yamamoto  
Teruaki Taji

2aG01-2aG12 Specialized (secondary) metabolism/  
Biomembrane/Ion and solute transport  
Hikaru Seki  
Ryosuke Sugiyama  
Ken Matsuoka

2aH01-2aH11 Development/Morphogenesis  
Hirota Kato  
Ayami Nakagawa  
Yusuke Kimata

2aX01-2aX10 Genome function/Gene regulation  
Misato Ohtani  
Mizuki Takenaka  
Toshiyuki Fukuhara

### Day 3 Tue., March 19, AM

3aA01-3aA11 Photosynthesis  
Kentarō Ifuku  
Yoshitaka Nishiyama  
Kintake Sonoike

3aB01-3aB12 Plant hormones/Signaling molecules  
Yuichiro Tsuchiya  
Ayumi Yamagami  
Akie Shimotohno

3aC01-3aC12 Cell wall  
Daisuke Takahashi  
Tadashi Kunieda  
Marcel Beier

3aD01-3aD08 Cell cycle/Cell division  
Yuuki Sakai  
Michiko Sasabe  
Yoko Mizuta

3aE01-3aE12 Plant-organism interaction B  
Momoko Takagi  
Koichi Sugimoto  
Rikako Hirata

3aF01-3aF12 Photoreceptors/Photoresponses  
Noriyuki Suetsugu  
Atsushi Takemiya  
Shizue Yoshihara

3aG01-3aG12 Biomembrane/Ion and solute transport  
Jun Wasaki  
Naoki Yamaji  
Akiko Maruyama

3aH01-3aH12 Development/Morphogenesis  
Tomomichi Fujita  
Yukiko Yasui  
Ryuji Tsugeki

3aX01-3aX10 Genome function/Gene regulation  
Taku Takahashi  
Yuichi Fujita  
Tokuji Tsuchiya

### Day 3 Tue., March 19, PM

3pA01-3pA08 Photosynthesis  
Atsushi Takabayashi  
Daisuke Seo

3pE01-3pE11 Plant-organism interaction B  
Yasuyuki Kawaharada  
Akihiro Yamazaki  
Taro Maeda

3pF01-3pF10 Flowering/Clock  
Hiroshi Takagi  
Yoshihiro Yoshitake  
Haruki Nishio

3pH01-3pH12 Development/Morphogenesis  
Tomotsugu Koyama  
Shinobu Takada  
Miya Mizutani