# Program: ORAL PRESENTATION

# ● Day 1　2017 / 03 / 16 (Thu)　9:30–12:30

| Time | Room A | Room B | Room C | Room D |
|---|---|---|---|---|
| | Environmental responses/Abiotic stresses (Drought/Water/Osmotic pressure) | Cell wall | Plant-microbe interaction (Immunity) | Organelles/Cytoskeletons |
| 9:30 | 1aA01<br>Comparative physiological, metabolomic and transcriptomic analyses of rice seedlings grown under different levels of drought stress conditions<br>Daisuke Todaka[1], Yu Zhao[1], Takuya Yoshida[2], Madoka Kudo[1], Yumiko Takebayashi[3], Mikiko Kojima[3], Hitoshi Sakakibara[3], Alisdair R Fernie[2], Kiminori Toyooka[3], Mayuko Sato[3], Kazuo Shinozaki[3], Kazuko Yamaguchi-Shinozaki[1] ([1]Grad. Sch. Agr. Life Sci., Univ. Tokyo, [2]Max-Planck-Institut, [3]Center for Sustainable Resource Science, RIKEN) | 1aB01<br>Function of xyloglucan in poplar stem<br>Rumi Kaida[1], Ryota Yamazaki[1], Shuhei Bando[1], Keisuke Tanaka[2], Kei-ichi Baba[3], Teruaki Taji[1], Yoichi Sakata[1], Takahisa Hayashi[1] ([1]Dept. of Bio-Sci., Tokyo Univ. of Agr., [2]NGRC, Tokyo Univ. of Agr., [3]Kyoto University, RISH) | 1aC01<br>Extracellular apyrase PsAPY1 in pea, a component of elicitor-induced apoplastic oxidative burst, impact on non-host resistance against non-adapted fungal and bacterial pathogens<br>Momiji Miki[1], Shiori Yamasaki[1], Sachiyo Yao[1], Hidenori Matsui[1], Yoshiteru Noutoshi[1], Mikihiro Yamamoto[1], Yuki Ichinose[1], Tomonori Shiraishi[2], Kazuhiro Toyoda[1] ([1]Graduate School of Environmental and Life Science, [2]RIBS Okayama) | 1aD01<br>Seedling ER bodies consist a novel defense system against insect in Brassicaceae plants<br>Kenji Yamada[1], Shino Goto-Yamada[1], Akiko Nakazaki[2], Atsushi Nagano[3], Mikio Nishimura[4], Ikuko Hara-Nishimura[5] ([1]MCB, Jagiellonian Univ., [2]Grad. Sch. of Sci., Kyoto Univ., [3]Fac. of Agric., Ryukoku Univ., [4]Dept. of Cell Biol., NIBB, [5]Fac. of Sci. and Eng., Konan Univ.) |
| 9:45 | 1aA02<br>ABA-unresponsive SnRK2-mediated mRNA decay under osmotic stress<br>Fumiyuki Soma[1], Junro Mogami[1], Takuya Yoshida[1], Midori Abekura[1], Fuminori Takahashi[2], Satoshi Kidokoro[1], Junya Mizoi[1], Kazuo Shinozaki[2], Kazuko Yamaguchi-Shinozaki[1] ([1]Grad. Sch. Agr. Life Sci., Univ. Tokyo, [2]Center for Sustainable Resource Science, RIKEN) | 1aB02<br>Xyloglucan as a vital component in strengthening cell walls<br>Yurina Sakamoto[1], Rika Ohira[1], Toshiki Takeuchi[1], Koji Nishida[2], Kei-ichi Baba[3], Rumi Kaida[1], Teruaki Taji[1], Yoichi Sakata[1], Takahisa Hayashi[1] ([1]Biosci. TUA, [2]Chem. Kyoto-u, [3]Sust. Kyoto-u) | 1aC02<br>Peroxidase-catalyzed $O_2^-$ generation in Arabidopsis is required for a full oxidative burst induced by MAMPs and elicitors<br>Chikako Kataoka[1], Shiori Yamasaki[2], Mika Matsuo[1], Momiji Miki[2], Hidenori Matsui[1,2], Yoshiteru Noutoshi[1,2], Mikihiro Yamamoto[1,2], Yuki Ichinose[1,2], Tomonori Shiraishi[3], Kazuhiro Toyoda[1,2] ([1]Faculty of Agriculture, Okayama University, [2]Graduate School of Environmental and Life Science, Okayama University, [3]RIBS Okayama) | 1aD02<br>«Impossible de prouver la négative ... »: Absence of oil body in the chloroplast in *Chlamydomonas reinhardtii*<br>Naoki Sato[1,2], Takashi Moriyama[1,2], Masakazu Toyoshima[1,2], Masakazu Saito[1,2], Natsumi Mori[1,2], Takashi Hirashima[1,2], Hajime Wada[1,2] ([1]University of Tokyo, Graduate School of Arts and Sciences, [2]JST, CREST) |
| 10:00 | 1aA03<br>Improvement of growth of drought tolerant plants by gene stacking<br>Madoka Kudo[1], Satoshi Kidokoro[1], Takuya Yoshida[1,2], Junya Mizoi[1], Daisuke Todaka[1], R. Fernie Alisdair[2], Kazuo Shinozaki[3], Kazuko Yamaguchi-Shinozaki[1] ([1]Grad. Sch. Agr. Life Sci., Univ. Tokyo, [2]Max Planck Institute of Molecular Plant Physiology, [3]Center for Sustainable Resource Science, RIKEN) | 1aB03<br>Involvement of root-produced extracellular xylem sap proteins in freezing tolerance in poplar<br>Tsutomu Aohara, Jun Furukawa, Kenji Miura, Shinobu Satoh (Faculty of Life and Environmental Sciences, University of Tsukuba) | 1aC03<br>The importance of *Arabidopsis* LBP/BPI related-2 (AtLBR-2) in gene ontology analysis of LPS-induced up-regulated genes<br>Sayaka Iizasa[1,2], Ei-ichi Iizasa[3], Keiichi Watanabe[2], Yukio Nagano[1,2] ([1]Anal. Res. Ctr. for Exp. Sci., Saga Univ., [2]Grad. Sch. Agric., Saga Univ., [3]Dept. Immunol., Grad. Sch. Med. and Dent. Sci., Kagoshima Univ.) | 1aD03<br>Live cell imaging analysis of piecemeal autophagy for chloroplast degradation in Arabidopsis leaves<br>Masanori Izumi[1,2,3], Kohei Otomo[4], Sakuya Nakamura[2], Jun Hidema[2], Tomomi Nemoto[4], Hiroyuki Ishida[5] ([1]FRIS, Tohoku Univ., [2]Grad Sch of Life Sci, Tohoku Univ, [3]PRESTO, JST, [4]RIES, Hokkaido Univ., [5]Grad Sch Agri Sci, Tohoku Univ.) |
| 10:15 | 1aA04<br>ACQOS, a single NLR immunity locus underlies in a trade-off between osmotic-stress and immune responses in Arabidopsis thaliana<br>Hirotaka Ariga[1], Taku Katori[1], Takashi Tsuchimatsu[2], Taishi Hirase[3], Yuri Tajima[3], Maarten Koornneef[4], Jane Parker[4], Ruben Alcazar[4], Yuriko Kobayashi[5], Satoshi Iuchi[5], Masatomo Kobayashi[5], Mikiko Kojima[6], Hitoshi Sakakibara[6], Kazuo Shinozaki[6], Yoichi Sakata[1], Takahisa Hayashi[1], Yusuke Saijo[3], Teruaki Taji[1] ([1]Dept. of Bioscience, Tokyo Univ. of Agriculture, [2]Dept. of Biology, Chiba Univ., [3]NAIST, [4]Max-Planck Inst. Plant Breed. Res., [5]BRC, RIKEN, [6]CSRS, RIKEN) | 1aB04<br>Inhibition of AGP functions with a specific glycoside hydrolase in Arabidopsis.<br>Yoshihisa Yoshimi[1], Mami Yoshimura[1], Raijoh Yakuwa[1], Seiji Shibano[1], Yoshitake Desaki[2], Naoto Shibuya[2], Yoichi Tsumuraya[1], Toshihisa Kotake[1] ([1]Grad. Sch. Sci. & Eng., Saitama Univ., [2]Fac. Agr., Meiji Univ.) | 1aC04<br>Mechanosensitive ion channels mediate plant innate immunity<br>Tomotaka Itaya[1], Mika Nomoto[1], Yoshikatsu Sato[2], Wenxiu Ye[1], Hidetoshi Iida[3], Brad Day[4], Steven Spoel[5], Toshinori Kinoshita[1,2], Tetsuya Higashiyama[1,2,6], Hironaka Tsukagoshi[7,8], Tomonao Matsushita[8,9], Yasuomi Tada[1,10] ([1]Div. of Bio. Sci., Grad. Sch. of Sci., Nagoya Univ., [2]WPI-ITbM, Nagoya Univ, [3]Dept. Biol., Tokyo Gakugei Univ., [4]Dept. of Plant Pathol., Michigan State Univ., [5]Sch. Biol. Sci., Univ. Edinburgh, [6]JST, ERATO, Higashiyama Live-Holonics Project, [7]Fac. of Agri., Meijo Univ., [8]JST, PRESTO, [9]Fac. of Agri., Kyushu Univ., [10]Cent. for Gene Res., Nagoya Univ.) | 1aD04<br>High light-induced abnormal chloroplasts are selectively eliminated via chlorophagy process<br>Sakuya Nakamura[1], Jun Hidema[1], Shigeichi Kumazaki[2], Kazuya Kodama[2], Hiroyuki Ishida[3], Masanori Izumi[1,4,5] ([1]Grad. Sch. Life Sci., Tohoku Univ., [2]Grad. Sch. Sci., Kyoto Univ., [3]Grad. Sch. Agri. Sci., Tohoku Univ., [4]FRIS, Tohoku Univ., [5]JST, PRESTO) |

| Room E | Room F | Room G | Room H | Room W | Room X | Room Y | Room Z | Time |
|---|---|---|---|---|---|---|---|---|
| Biomembrane/ Ion and solute transport | Systems biology | Vegetative growth | Light harvesting/Pigment | | Symposium S01 Production mechanisms of reactive oxygen species and molecular mechanisms of PSI photoinhibition in higher plants (9:30–12:30) | Symposium S02 Augmented Symplasm: supracellular structure associated with the secondary organogenesis. (9:30–12:30) | Symposium S03 New insights into the phospholipid signaling in plants (9:30–12:30) | 9:30 |
| 1aE01<br>RMV1, a polyamine/paraquat transporter is involved in thiamine transport<br>Miki Fujita[1], Yasunari Fujita[2,3], Kazuo Shinozaki[1] ([1]RIKEN CSRS, [2]Biol. Resources Post-harvest Div., JIRCAS, [3]Grad. Sch. Life Environ. Sci., Univ. Tsukuba) | 1aF01 Ⓔ<br>Prediction of responses to environmental stresses in the entire plant metabolism using a genome-scale mathematical model<br>Kansuporn Sriyudthsak, Ayuko Kuwahara, Masami Yokota Hirai (RIKEN Center for Sustainable and Resource Science (CSRS)) | 1aG01 Ⓔ<br>Identification of a Novel Regulator Required for Wound-Induced Cellular Reprogramming in *Arabidopsis thaliana*<br>Momoko Ikeuchi, Akira Iwase, Keiko Sugimoto (RIKEN CSRS) | 1aH01 Ⓔ<br>Bacteriochlorophyll biosynthetic pathways based on substrate specificities of enzymes for chlorosomal pigment biosynthesis<br>Misato Teramura[1], Jiro Harada[2], Tadashi Mizoguchi[1], Hitoshi Tamiaki[1] ([1]Grad. Sch. Life Sci., Ritsumeikan Univ., [2]Dept. Med. Biochem., Kurume Univ. Sch. Med.) | | | | | |
| 1aE02<br>Circulation and accumulation of sodium and potassium in *Arabidopsis athkt1* mutant<br>Kosuke Takebayashi[1], Hidetoshi Kikunaga[2], Megumi Kato[1], Ryusuke Yokoyama[3], Kazuhiko Nishitani[3], Hiroshi Watabe[4], Toshimi Suda[2], Takashi Kuromori[5], Atushi Ishikawa[6], Tomoaki Horie[7], Nobuo Suzui[8], Yong-Gen Yin[8], Naoki Kawachi[8], Shu Fujimaki[8], Kyoko Higuchi[9], Izumi Mori[10], Shin Hamamoto[1], Nobuyuki Uozumi[1] ([1]Grad. Sch. Eng., Tohoku Univ, [2]Research Center for Electron Photon Science., Tohoku Univ, [3]Grad. Sch. Life Sci., Tohoku Univ, [4]Cyclotron and Radioisotope Center., Tohoku Univ, [5]Center for Sustainable Resource Science., RIKEN, [6]Grad. Sch. Bio., Fukui Prefecture Univ, [7]Grad. Sch. Tex., Shinshu Univ, [8]Takasaki Advanced Radiation Research Inst, [9]Grad. Sch. Applied Bio., Tokyo Univ of Agriculture, [10]Inst of Plant Science and Resource., Okayama Univ) | 1aF02<br>Comparative characterization of the leaf tissue of *Physalis alkekengi* and *Physalis peruviana* using RNA-seq and metabolite profiling<br>Atsushi Fukushima[1], Michimi Nakamura[2], Hideyuki Suzuki[3], Mami Yamazaki[2], Eva Knoch[1], Tetsuya Mori[1], Naoyuki Umemoto[1], Masaki Morita[4], Go Hirai[1,4], Mikiko Sodeoka[1,4], Kazuki Saito[1,2] ([1]RIKEN CSRS, [2]Grad. Sch. Pharm. Sci., Chiba Univ., [3]Kazusa DNA Res. Inst., [4]Synth. Org. Chem. Lab., RIKEN) | 1aG02 Ⓔ<br>Analysis on a novel transcription factor controlling the hormonal response during the vascular development in Arabidopsis root.<br>Shunsuke Miyashima, Kaori Furuta, Keiji Nakajima (Grad. Sch. Bio. Sci., NAIST) | 1aH02<br>Type V chromatic acclimation controlling phycoerythrocyanin content in response to green and red light.<br>Yuu Hirose[1], Chinatsu Yonekawa[1], Nobuyoshi Nagao[1], Mai Watanabe[2], Masahiko Ikeuchi[2], Toshihiko Eki[1] ([1]Toyohashi Univ. of Tech., Dpt. of Life and Env. Sci., [2]The Univ. of Tokyo, Grad. Sch. of Arts and Sci.) | | | | | 9:45 |
| 1aE03<br>Functional analysis of an Arabidopsis thaliana ZIP transporter involved in IAA-Ala resistance<br>Katsushi Kobayashi[1], Shoji Segami[1], Masayoshi Maeshima[1], Miki Kawachi[2] ([1]Graduate School of Bioagricultural Sciences, [2]Institute for Advanced Research, Nagoya University) | 1aF03<br>Rice transcriptome profiling under low temperature conditions at the germination stage<br>Kyonoshin Maruyama (Biol. Resources Div., JIRCAS) | 1aG03 Ⓔ<br>Two transcription factors govern root hair growth in Arabidopsis<br>Michitaro Shibata[1], Christian Breuer[1], Ayako Kawamura[1], Bart Rymen[1], Lewis Watt[1], Natalie Clark[2,3], Luke Braidwood[1], Rosangela Sozzani[2,3], Philip Benfey[4], Keiko Sugimoto[1] ([1]RIKEN CSRS, [2]Department of Plant and Microbial Biology, North Carolina State University, [3]Biomathematics Graduate Program, North Carolina State University, [4]Department of Biology, Howard Hughes Medical Institute, Duke University) | 1aH03<br>Development of the CRISPR interference system for alteration of cyanobacterial photosynthetic pigment composition<br>Ryo Hayakawa[1], Tohru Tsuchiya[2,3] ([1]Faculty of Integrated Human Studies, Kyoto University, [2]Graduate School of Human and Environmental Studies, Kyoto University, [3]Graduate School of Global Environmental Studies) | | | | | 10:00 |
| 1aE04<br>Expression and function of the ALMT-family proteins in tomato<br>Takayuki Sasaki[1], Yoshiyuki Tsuchiya[1], Michiyo Ariyoshi[1], Ryohei Nakano[2], Koichiro Ushijima[2], Yasutaka Kubo[2], Izumi Mori[1], Emi Higashiizumi[1], Ivan Galis[1], Yoko Yamamoto[1] ([1]IPSR, Okayama University, [2]Graduate School of Environmental and Life Science, Okayama University) | 1aF04<br>Development of wet and dry technologies for field transcriptome modeling<br>Atsushi Nagano[1,5], Koji Iwayama[1,5], Ayumi Tezuka[1,5], Ayumi Deguchi[1,5], Makoto Kashima[1,5], Hironori Takimoto[2,5], Takanari Tanabata[3,5], Hiroki Saito[4,5] ([1]Fac. of Agr., Ryukoku Univ., [2]Fac. of Comp. Sci. and Syst. Eng., Okayama Pref. Univ., [3]Kazusa DNA Inst., [4]Fac. of Agr., Kyoto Univ., [5]JST CREST) | 1aG04 Ⓔ<br>Functional characteristics of a new senescence associated NAC transcription factor in rice<br>Yousra Elmannai, Namiko Satoh-Nagasawa, Nao Konno, Hiroetsu Wabiko (Akita Prefectural University, Faculty of Bioresource Sciences) | 1aH04<br>Engineering of isoprenoid and carotenoid biosynthesis pathway<br>Masako Matsumura[1], Hiroshi Kiyota[1], Yukiko Okuda[1], Shinichi Takaichi[2], Masahiko Ikeuchi[1] ([1]Graduate School of Arts and Science, University of Tokyo, [2]Biological Laboratory, Nippon Medical School) | | | | | 10:15 |

Ⓔ=Presentation in English

# ● Day 1　2017 / 03 / 16 (Thu)　9:30–12:30

| Time | Room A | Room B | Room C | Room D |
|---|---|---|---|---|
| | Environmental responses/Abiotic stresses (Drought/Water/Osmotic pressure) | Cell wall | Plant-microbe interaction (Immunity) | Organelles/Cytoskeletons |
| 10:30 | 1aA05<br>Identification and the genetic dissection of acquired osmotolerant mutants from A. thaliana Col-0, an acquired osmotolerance-defective accession<br>Satoru Kunitake[1], Hirotaka Ariga[1], Satosi Iuchi[2], Masatomo Kobayashi[2], Yoichi Sakata[1], Takahisa Hayashi[1], Teruaki Taji[1] ([1]Department of Bioscience, Tokyo University of Agriculture, [2]BRC, RIKEN) | 1aB05<br>Chlamydomonas UDP-arabinopyranose mutase catalyzes the reversible reaction of UDP-galactopyranose and UDP-galactofuranose<br>Rina Yonamine, Ayana Kotani, Teruko Konishi (Grad. Sch. Agr., Univ. Ryukyu) | 1aC05<br>Genetic framework for root responses to damage-associated Pep peptides in *Arabidopsis thaliana*<br>Kentaro Okada[1], Koichi Otani[1], Kei Hiruma[1,2], Yusuke Saijo[1,2] ([1]Nara Institute of Science and Technology, [2]JST PRESTO) | 1aD05<br>The impact of loss of RECA or RECG on organelle genomes revealed by deep sequencing.<br>Masaki Odahara[1], Kensuke Nakamura[2], Taku Oshima[3], Yasuhiko Sekine[1] ([1]Department of Life Science, Rikkyo University, [2]Department of Life Science and Informatics, Maebashi Institute of Technology, [3]Graduate School of Biological Science, Nara Institute of Science and Technology) |
| 10:45 | 1aA06<br>Isolation and genetic dissection of acquired osmotolerance-defective mutants in Arabidopsis thaliana Bu-5, an osmotolerant accession<br>Kouhei Uchida[1], Keisuke Tanaka[2], Shigeki Nozawa[3], Yoshihiro Hase[3], Issay Narumi[3], Yoichi Sakata[1], Takahisa Hayashi[1], Teruaki Taji[1] ([1]Tokyo University Of Agriculture, [2]Genome Research Center, [3]Quantum Beam Science Directorate) | 1aB06<br>Proteomic Approach for Understanding Xylem Vessel Cell Differentiation<br>Masahiro Noguchi, Yoichiro Fukao, Ryosuke Sano, Misato Ohtani, Taku Demura (Nara Institute of Science and Technology, graduate school of biological sciences) | 1aC06<br>Phosphate status-dependent control of root immune responses in *Arabidopsis thaliana*<br>Tae-Hong Lee[1], Midori Tanaka[1], Kei Hiruma[1,2], Yusuke Saijo[1,2] ([1]Nara Institute of Science and Technology, Graduate School of Biological Sciences, [2]JST PRESTO) | 1aD06<br>Changes of intracellular localization of centrosomal proteins through the spermatogenesis of Marchantia polymorpha<br>Kaori Nomura[1], Masaki Shimamura[1], Kimitsune Ishizaki[2] ([1]Department of Biological Science, Graduate School of Science, Hiroshima University, [2]Department of Biological Science, Graduate School of Science, Kobe University) |
| 11:00 | 1aA07<br>Global identification of genes contributing to acquired osmotolerance in Arabidopsis via ABA-independent pathway<br>Jumpei Narushima[1], Hirotaka Ariga[1], Keisuke Tanaka[2], Yoichi Sakata[1], Takahisa Hayashi[1], Teruaki Taji[1] ([1]Tokyo University of Agriculture Department of Bioscience, [2]NODAI Genome Research Center) | 1aB07<br>Functional analysis of arabinogalactan protein expressing in the host-parasitic interface<br>Akitaka Hozumi[1], Ryusuke Yokoyama[2], Kazuhiko Nishitani[2], Koh Aoki[1] ([1]Grad. Sch. Life Env. Sci., Univ. Osaka Pref., [2]Grad. Sch. Life Sci., Univ. Tohoku) | 1aC07 E<br>Pattern recognition receptor complex-mediated control of plasma membrane intrinsic proteins (PIPs) in plant immunity.<br>Taishi Hirase[1], Kohji Yamada[2], Misuzu Yamashita-Yamada[2], Iris Finkemeier[3], Hirofumi Nakagami[3], Christophe Maurel[4], Yusuke Saijo[1,2,5] ([1]Graduate School of Biological Sciences, NAIST, [2]Department of Plant-Microbe Interactions, [3]Plant Proteomics and Mass Spectrometry Group, Max Planck Institute for Plant Breeding Research, Germany, [4]Biochimie et Physiologie Moléculaire des Plantes, Unité Mixte de Recherche 5004, Centre National de la Recherche Scientifique/ Unité Mixte de Recherche 0386, Institut National de la Recherche Agronomique/Montpellier SupAgro/Université Montpellier II, F-34060 Montpellier, cedex 2, France, [5]JST, PRESTO) | 1aD07<br>Aggregation of chloroplasts during the cold-positioning response in Marchantia polymorpha L.<br>Hiroyuki Tanaka[1,2], Mayuko Sato[3], Yuka Ogasawara[1], Kiminori Toyooka[3], Yutaka Kodama[1] ([1]Ctr. Biosci. Res. & Edu., Utsunomiya Univ., [2]CCRD, Utsunomiya Univ., [3]CSRS, RIKEN.) |
| 11:15 | 1aA08<br>Functional analysis of ABI5 ortholog genes in Physcomitrella patens<br>Ken Fujisaki[1], Masashi Saruhashi[2], Kana Satou[1], Teruaki Taji[1], Takahisa Hayashi[1], Yoichi Sakata[1] ([1]Department of BioScience, Tokyo University of Agriculture, [2]Graduate School of Science and Engineering,Saitama University) | 1aB08<br>SRPP, a cell-wall protein is involved in development and protection of seeds and root hairs in *Arabidopsis thaliana*<br>Natsuki Tanaka[1], Hiroshi Uno[1], Shohei Okuda[1], Shizuka Gunji[2], Ali Ferjani[2], Takashi Aoyama[3], Masayoshi Maeshima[1] ([1]Graduate School of Bioagricultural Sciences, Nagoya University, [2]Department of Biology, Tokyo Gakugei University, [3]Institute for Chemical Research, Kyoto University) | 1aC08 E<br>Identification of novel regulators of the NADPH oxidase RBOHD during plant immunity<br>Yukihisa Goto[1,2], Yasuhiro Kadota[1], Hidenori Matsui[1,4], Jan Sklenar[3], Paul Derbyshire[3], Frank Menke[3], Hirofumi Nakagami[1,5], Cyril Zipfel[3], Ken Shirasu[3] ([1]RIKEN Center for Sustainable Science, [2]Graduate School of Science, The University of Tokyo, [3]The Sainsbury Laboratory, [4]Okayama University, [5]Max Planck Institute for Plant Breeding Research) | 1aD08<br>ANGUSTIFOLIA and ACTIN7 mediate the dark-induced nuclear positioning in leaf mesophyll cells of *Arabidopsis thaliana*<br>Kosei Iwabuchi[1], Haruna Ohnishi[2], Kentaro Tamura[2], Yoichiro Fukao[3], Hirokazu Tsukaya[4,5], Ikuko Hara-Nishimura[1] ([1]Grad. Sch. Nat. Sci., Konan Univ., [2]Grad. Sch. Sci., Kyoto Univ., [3]Coll. Life Sci., Ritsumeikan Univ., [4]Grad. Sch. Sci., Univ. Tokyo, [5]OIIB) |
| 11:30 | 1aA09<br>Functional analysis of SnRK2 gene family in *Physcomitrella patens*<br>Akihisa Shinozawa[1], Ryoko Otake[1], Toshiharu Yonehara[1], Andrew C.Cuming[2], Kenji Komatu[3], Daisuke Takezawa[4], Teruaki Taji[1], Takahisa Hayashi[1], Yoichi Sakata[1] ([1]Department of BioScience, Tokyo University of Agriculture, [2]Center of Plant Science, University of Leeds, [3]Department of Junior College Bioproduction Technology, Tokyo University of Agriculture, [4]Graduate School of Science and Engineering, Saitama University) | 1aB09<br>Analysis of ROP GTPase signal pathway regulating secondary cell wall pattern during xylem differentiation<br>Yoshinobu Nagshima[1,2], Hire Fukuda[1], Yoshihisa Oda[2] ([1]Grad.Sch.Sci.,Univ.Tokyo, [2]Cent.Fro.Res.,NIG) | 1aC09 E<br>HR cell death regulator "MARK1" is associated with P-bodies in Arabidopsis<br>Hidenori Matsui[1,2], Yuko Nomura[1], Takahiro Hamada[3], Gang-Su Hyon[1], Yuichiro Watanabe[3], Takashi Ueda[4,5,6], Hirofumi Nakagami[1,7] ([1]RIKEN Center for Sustainable Resource Science, [2]Okayama University, Graduate School of Environmental and Life Science, [3]The University of Tokyo, Department of Life Sciences, Graduate School of Arts and Sciences, [4]National Institute for Basic Biology, Department of Basic Biology, [5]SOKENDAI, Graduate University for Advanced Studies, [6]PRESTO, JST, [7]Max Planck Institute for Plant Breeding Research) | 1aD09<br>The microtubule-associated protein BPP family is involved in morphogenesis of leaf epidermal cells.<br>Jeh Haur Wong, Takehide Kato, Nahoko Nagasaki-Takeuchi, Takashi Hashimoto (Nara Institute of Science and Technology) |

| Room E | Room F | Room G | Room H | Room W | Room X | Room Y | Room Z | Time |
|---|---|---|---|---|---|---|---|---|
| Biomembrane/ Ion and solute transport | Systems biology | Vegetative growth | Light harvesting/Pigment | | Symposium S01 Production mechanisms of reactive oxygen species and molecular mechanisms of PSI photoinhibition in higher plants (9:30–12:30) | Symposium S02 Augmented Symplasm: supracellular structure associated with the secondary organogenesis. (9:30–12:30) | Symposium S03 New insights into the phospholipid signaling in plants (9:30–12:30) | 10:30 |
| 1aE05<br>Establishment of transport activity analysis system for membrane potential-dependent transporters based on cell-free protein synthesis system<br>Akira Nozawa, Mario Murakoso, Tatsuya Sawasaki (PROS, Ehime Univ.) | 1aF05<br>Impact of Evolutionary Age on Gene Coexpression and Core Promoter Architecture in *Arabidopsis thaliana*<br>Yuichi Aoki[1,3], Takeshi Obayashi[1], Kengo Kinoshita[1,2,3] ([1]Grad. Sch. Info. Sci., Tohoku Univ., [2]Inst. Dev. Aging Cancer, Tohoku Univ., [3]Tommo., Tohoku Univ.) | 1aG05<br>The mechanisms restricting the activity of *ATML1* to the surface cells<br>Hiroyuki Iida[1], Ayaka Yoshida[1], Gerd Jürgens[2], Shinobu Takada[1] ([1]Dept. Biol. Sci., Grad. Sch. Sci., Osaka Univ, [2]Univ. Tübingen) | 1aH05<br>Modification of light-harvesting functions of *Prochlorococcus marinus* under different light conditions<br>Fumiya Hamada[1], Akio Murakami[1,2], Seiji Akimoto[1,3] ([1]Grad. Sch. Sci., Kobe Univ., [2]Kobe University Research Center for Inland Seas, [3]Molecular Photoscience Research Center, Kobe University) | | | | | |
| 1aE06<br>Genetical Linkage of AtABCG21 and AtABCG22 on Stomatal Regulation<br>Takashi Kuromori[1], Eriko Sugimoto[1], Haruka Ohiraki[2], Kazuko Yamaguchi-Shinozaki[2], Kazuo Shinozaki[1] ([1]RIKEN CSRS, [2]Grad. Sch. Agr. Life Sci., Univ. of Tokyo) | 1aF06<br>Sample Alignment of Different Species toward Species-Specific Coexpression Analyses<br>Takeshi Obayashi, Yuichi Aoki, Shu Tadaka, Yasunobu Okamura, Kengo Kinoshita (Grad Sch Informat Sci, Tohoku Univ) | 1aG06<br>*VAH* influences stem-cell homeostasis in *Arabidopsis*<br>Ryuji Tsugeki (Grad. Sch. Sci., Kyoto Univ.) | 1aH06<br>Role of galactolipids in etioplast biogenesis and protochlorophyllide synthesis of *Arabidopsis*<br>Sho Fujii[1], Koichi Kobayashi[1], Megumi Kobahashi[2], Noriko Nagata[2], Tatsuru Masuda[1], Hajime Wada[1] ([1]Grad. Sch. Arts Sci., Univ. Tokyo, [2]Fac. Sci., Japan Women's Univ.) | | | | | 10:45 |
| 1aE07<br>Analysis of seasonal re-translocation of phosphorus in deciduous woody plant; *Populus alba.*<br>Yuko Kurita[1], Satomi Kanno[1,2], Ryohei Sugita[3], Atsushi Hirose[3], Miwa Ohnishi[1], Ayumi Tezuka[4], Atsushi Nagano[4], Keiko Kosuge[1], Kimitsune Ishizaki[1], Hidehiro Fukaki[1], Keitaro Tanoi[3,5], Tomoko Nakanishi[3], Kei-ichi Baba[6], Tetsuro Mimura[1] ([1]Graduate School of Science, Kobe Univ., [2]The French Alternative Energies and Atomic Energy Commission, France, [3]Graduate School of Agricultural and Life Sciences, University of Tokyo, [4]Faculty of Agriculture, Ryukoku University, [5]JST-PRESTO, [6]Research Institute for Sustainable Humanosphere, Kyoto Univ.) | 1aF07<br>Genomic and transcriptomic analysis of rubber tree to elucidate the rubber biosynthesis pathway.<br>Yuko Makita[1], Nyok-Sean Lau[1,2], Mika Kawashima[1], Minami Matsui[1] ([1]Synthetic Genomics Research Team, Biomass Engineering Program Cooperation Division, RIKEN Center for Sustainable Resource Science, [2]Centre for Chemical Biology, Universiti Sains Malaysia) | 1aG07<br>Analysis of novel factors involved in early vascular development<br>Kyoko Ohashi-Ito, Hiroo Fukuda (Department of Biological Sciences, Graduate School of Science, The University of Tokyo) | 1aH07<br>SGRL contributes to greening of etiolated seedlings by reducing photoinhibition<br>Daichi Obata, Yousuke Shimoda, Ayumi Tanaka, Hisashi Ito (Institute of Low Temperature Science, Hokkaido University) | | | | | 11:00 |
| 1aE08 Ⓔ<br>OsPHO1;2 is also involved in intervascular transfer of phosphorus in rice node<br>Jing Che, Naoki Yamaji, Jian Feng Ma (IPSR, Okayama University) | 1aF08<br>Network Analysis Of a Transcription Factor In The Liverwort, Marchantia Polymorpha, Provides Insights Into The Evolution Of Gene Regulatory Networks.<br>Haruka Arai[1], Ryuichi Nishihama[2], Takayuki Kohchi[2], Kengo Morohashi[1] ([1]Dept Applied Biol. Sci, Tokyo University of Science, [2]Grad. Sch. Biostudies., Kyoto University) | 1aG08<br>Time-lapse imaging of root cap maturation and cell detachment in the growing roots of *Arabidopsis thaliana*<br>Tatsuaki Goh[1], Koki Ueno[1], Saki Kozono[1], Masako Kamiya[1], Jong-Myong Kim[2], Takaho Endo[3], Shunsuke Miyashima[1], Keiji Nakajima[1] ([1]Grad. Sch. Biol. Sci., NAIST, [2]RIKEN CSRS, [3]RIKEN IMS) | 1aH08<br>Functional Analysis of Early Light-Induced Protein in *Arabidopsis thaliana*<br>Yuki Akiyama[1], Makio Yokono[1], Seiji Akimoto[2], Ayumi Tanaka[1], Ryouichi Tanaka[1] ([1]Institute of Low Temperature Science, Hokkaido University, [2]Graduate School of Science, Kobe University) | | | | | 11:15 |
| 1aE09 Ⓔ<br>Role of two genes encoding metallothionein in distribution of metals in rice<br>Gui Jie Lei, Naoki Yamaji, Jian Feng Ma (Institute of Plant Science and Resources, Okayama University) | 1aF09<br>PLAGO : A database of gene expression in plants using next generation sequencing<br>Naohiro Kimura[1], Hideyuki Suzuki[2], Yoshiyuki Ogata[1] ([1]Graduate School of Life & Environmental Sciences, Osaka Prefecture University, [2]Kazusa DNA Research Institute) | 1aG09<br>Initial Characterization of Cell Division Reactivation and SAM Related Gene Expression during Adventitious Bud Formation in Stem Segments of *Torenia fournieri*.<br>Hatsune Morinaka[1], Akihito Mamiya[1], Akitoshi Iwamoto[2], Hiroaki Tamaki[1], Takamasa Suzuki[3,4], Yoshikatsu Sato[5], Tetsuya Higashiyama[4,5,6], Munetaka Sugiyama[1] ([1]Botanical Gardens, Grad. Sch. Sci., Univ. Tokyo, [2]Dept. Biol., Tokyo Gakugei Univ., [3]Dept. Biol. Chem., Coll. Biosci. Biotech., Chubu Univ., [4]ERATO, JST, [5]ITbM, Nagoya Univ., [6]Div. Biol. Sci., Grad. Sch. Sci., Nagoya Univ.) | 1aH09<br>Genomic evolution of thermophilic cyanobacteria: genome shuffling due to repetitive sequences<br>Kaisei Maeda[1], Yuu Hirose[2], Takatomo Fujisawa[3], Yu Kanesaki[4], Hirofumi Yoshikawa[4], Masahiko Ikeuchi[1] ([1]Department of Life Sciences, University of Tokyo, [2]Department of Environmental and Life Sciences, Toyohashi University of Technology, [3]Center for Information Biology, National Institute of Genetics, [4]Genome Research Center, Tokyo University of Agriculture) | | | | | 11:30 |

Ⓔ=Presentation in English

# ● Day 1　2017 / 03 / 16 (Thu)　9:30–12:30

| Time | Room A | Room B | Room C | Room D |
|---|---|---|---|---|
| | Environmental responses/Abiotic stresses (Drought/Water/Osmotic pressure) | Cell wall | Plant-microbe interaction (Immunity) | Organelles/Cytoskeletons |
| 11:45 | 1aA10<br>Genome-wide association study for submergence response in deepwater rice<br>Takeshi Kuroha[1,2], Gamuyao Rico[2], Keisuke Nagai[2], Ryusuke Yokoyama[1], Kazuhiko Nishitani[1], Gen Tamiya[3], Motoyuki Ashikari[2] ([1]Graduate School of Life Sciences, Tohoku Univ., [2]Bioscience and Biotechnology Center, Nagoya Univ., [3]Tohoku Medical Megabank Organization, Tohoku Univ.) | 1aB10<br>Analysis of *VNS* genes in *Pinus taeda* toward understanding of tracheid differentiation<br>Nobuhiro Akiyoshi[1], Yoshimi Nakano[1], Yusuke Kunikida[1], Misato Ohtani[1,2], Taku Demura[1,2] ([1]NAIST, [2]RIKEN CSRS) | 1aC10 E<br>Phosphorylation-dependent self-ubiquitination of ATL31 during plant immunity<br>Shigetaka Yasuda[1,3], Yoko Hasegawa[1], Yasuhiro Kadota[2], Takeo Sato[1], Yusuke Saijo[3,4], Junji Yamaguchi[1] ([1]Fac. Sci. and Grad. Sch. Life Sci., Hokkaido Univ., [2]RIKEN CSRS, [3]Grad. Sch. Biol. Sci., NAIST, [4]JST PRESTO) | 1aD10<br>A novel microtubule-localized protein regulates the structure of xylem vessels<br>Takema Sasaki[1], Hiroo Fukuda[2], Yoshihisa Oda[1,3] ([1]Center for Frontier Research, National Institute of Genetics, [2]Graduate School of Science, The University of Tokyo, [3]Department of Genetics, The Graduate University for Advanced Studies (SOKENDAI)) |
| 12:00 | 1aA11<br>Virus-induced gene silencing of *GmERA1A* and *GmERA1B* enhances stomatal sensitivity to abscisic acid and drought resistance in soybean<br>Takuya Ogata[1], Yukari Nagatoshi[1], Noriko Yamagishi[2], Nobuyuki Yoshikawa[2], Yasunari Fujita[1,3] ([1]Biol. Resources Post-harvest Div., JIRCAS, [2]Faculty of Agriculture, Iwate Univ., [3]Grad. Sch. Life Environ. Sci., Univ. Tsukuba) | 1aB11<br>A comprehensive analysis of secondary cell wall formation-associated genes<br>Satoshi Endo, Hiroo Fukuda (Grad. Sch. Sci., Univ. Tokyo) | 1aC11 E<br>Live-imaging of MAPK activity in plant immune responses<br>Hiroaki Adachi[1], Nobuaki Ishihama[2], Miki Yoshioka[1], Mari Narusaka[3], Yoshihiro Narusaka[3], Hirofumi Yoshioka[1] ([1]Graduate School of Bioagricultural Sciences, Nagoya University, [2]RIKEN Plant Science Center, [3]RIBS Okayama) | 1aD11<br>Distinct phenotypes of artificial chimeric myosin XIs suggest the individual specific functions of class XI myosins in Arabidopsis<br>Zhongrui Duan[1,3], Nanako Hagino[2], Yuno Shibuya[2], Takeshi Haraguchi[4], Hirokazu Tsukaya[5], Akihiko Nakano[5,6], Kohji Ito[4], Motoki Tominaga[1,2,3] ([1]Fac. Educ. Integrated Arts. Sci., Waseda Univ., [2]Grad. Sch. Adv. Sci. Eng., Waseda Univ., [3]JST-ALCA, [4]Grad. Sch. Sci., Chiba Univ., [5]Grad. Sch. Sci., Univ. Tokyo, [6]RAP, RIKEN) |
| 12:15 | 1aA12<br>Kinetics of macromolecular trafficking regulated by ABA-mediated plasmodesmatal gating<br>Takumi Tomoi[1,2], Munenori Kitagawa[3], Yoichi Sakata[4], Kensuke Kawade[2,5,6], Tomomichi Fujita[7] ([1]Grad. Sch. Life Sci., Hokkaido Univ., [2]OIIB, [3]CSHL, [4]Dept. Biosci., Tokyo Univ. Agric., [5]NIBB, [6]Sch. Life Sci., Grad. Univ. Adv. Studies (SOKENDAI), [7]Fac. Sci., Hokkaido Univ.) | 1aB12<br>Identification of new transcription factors regulating plant cell wall formation using secondary cell wall-deficient Arabidopsis mutant<br>Shingo Sakamoto, Nobutaka Mitsuda (Bioprod. Res. Inst., Natl. Inst. Adv. Ind. Sci. & Tech. (AIST)) | 1aC12 E<br>A novel class of conserved effectors with ribonuclease domains is required for virulence of phytopathogenic Colletotrichum fungi on plants<br>Naoyoshi Kumakura[1], Suthitar Singkaravanit-Ogawa[2], Pamela Gan[1], Ayako Tsushima[1,3], Mari Narusaka[4], Yoshihiro Narusaka[1,4], Yoshitaka Takano[2], Ken Shirasu[1,3] ([1]CSRS RIKEN, [2]Grad. Sch. Agric., Kyoto Univ., [3]Grad. Sch. Sci., Univ. Tokyo, [4]RIBS Okayama) | 1aD12<br>Localization Analyses of the Microtubule-associated protein MOR1 in Arabidopsis<br>Takahiro Hamada[1], Tsuyoshi Fujimoto[1], Kentaro Tamura[2], Ikuko Hara-Nishimura[3], Yuichiro Watanabe[1] ([1]Grad. School of Arts and Sci., Univ. of Tokyo, [2]Grad. School of Sci, Kyoto Univ., [3]Faculty of Sci. and Eng., Konan Univ.) |

| Room E | Room F | Room G | Room H | Room W | Room X | Room Y | Room Z | Time |
|---|---|---|---|---|---|---|---|---|
| | Systems biology | Vegetative growth | Light harvesting/Pigment | | Symposium S01 Production mechanisms of reactive oxygen species and molecular mechanisms of PSI photoinhibition in higher plants (9:30–12:30) | Symposium S02 Augmented Symplasm: supracellular structure associated with the secondary organogenesis. (9:30–12:30) | Symposium S03 New insights into the phospholipid signaling in plants (9:30–12:30) | |
| | 1aF10<br>A database of plant gene expression using microarray datasets<br>Yoshiyuki Ogata[1], Nozomu Sakurai[2], Hideyuki Suzuki[2] ([1]Graduate school of life and environmental sciences, Osaka Prefecture University, [2]Kazusa DNA Research Institute) | 1aG10<br>Genetic mechanism for three-dimensional gametophytic growth in *Physcomitrella patens*<br>Kensuke Kawade[1,2,3], Gorou Horiguchi[4,5], Tomomichi Fujita[6], Hirokazu Tsukaya[1,7] ([1]OIIB, [2]NIBB, [3]SOKENDAI, [4]Coll. Sci., Rikkyo Univ., [5]Res. Cent. Life Sci., Rikkyo Univ., [6]Facal. Science, Hokkaido Univ., [7]Grad. School Science, Univ. Tokyo) | 1aH10<br>Monitoring of Photosynthetic Electron Transport Reaction in the Thermophilic Purple Bacterium *Thermochromatium tedium* by means of FTIR Spectroscopy<br>Michie Imanishi[1], Kanako Hashimoto[2], Kenji Nagashima[3], Masayuki Kobayashi[4], Yuki Yura[2], Takashi Ohno[2], Seiu Otomo[5], Yukihiro Kimura[2] ([1]Fac. Agri., Kobe Univ., [2]Grad. Sch. Agri., Kobe Univ., [3]Res. Inst. Photobiol. Hydrogen Production, Kanazawa Univ., [4]Ariake Nat. Col. of Tech., [5]Fac. Sci., Ibaraki Univ.) | | | | 11:45 |
| | 1aF11<br>Functionalization of duplicate genes triggered by differentiation of expression patterns.<br>Akihiro Ezoe, Kazumasa Shirai, Kousuke Hanada (Kyushu Institute of Technology Computer Science and Systems Engineering Interdisciplinary Informatics Hanada Labolatory) | 1aG11<br>Functional analysis of the HR0109 transcription factor related to plant cell patterning<br>Mikiya Takahashi, Miho Ikeda, Masaru Ohme-Takagi (Grad. Sch. Sci. Eng., Univ. Saitama) | 1aH11<br>Comparison in nitrogen-fixing heterocyst properties between two cyanobacteria with fluorescence and absorption spectral microscopy<br>Shuho Nozue[1], Mitsunori Katayama[2], Masahide Terazima[1], Shigeichi Kumazaki[1] ([1]Graduate School of Science, Kyoto University, [2]Department of Liberal Arts and Basic Sciences, College of Industrial Technology, Nihon University) | | | | | 12:00 |
| | 1aF12<br>VOC profiling of Allium plants with an ITEX device<br>Miyako Kusano[1,2], Makoto Kobayashi[2], Yumiko Iizuka[2,3], Atsushi Fukushima[2], Kazuki Saito[2,4] ([1]University of Tsukuba, [2]RIKEN Center for Sustainable Resource Science, [3]Yokohama City University, [4]Chiba University) | 1aG12<br>Analysis of transcription factor that induces the formation of somatic embryo in Arabidopsis<br>Tsubasa Yamagata[1], Miho Ikeda[1], Masaru Ohme-Takagi[1,2] ([1]Grad. Sch. Sci. Eng., Univ. Saitama, [2]Biopro. Res. Inst., AIST) | 1aH12<br>Polyhydroxyalkanoates (PHAs) production and characterization by marine purple non-sulfur bacteria<br>Mieko Higuchi-Takeuchi, Kumiko Morisaki, Keiji Numata (RIKEN CSRS Enzyme Research Team) | | | | | 12:15 |

Ⓔ=Presentation in English

# ● Day 1　2017 / 03 / 16 (Thu)　14:00–17:00

| Time | Room A | Room B | Room C | Room D |
|---|---|---|---|---|
| | Environmental responses/Abiotic stresses (Drought/Water/Osmotic pressure/Others) | Cell wall | Plant-microbe interaction (Immunity) | Organelles/Cytoskeletons |
| 14:00 | 1pA01 Ⓔ<br>Transcriptomic profiling of root and shoot in soil grown Arabidopsis thaliana plants in response to drought stress<br>Sultana Rasheed[1,2], Khurram Bashir[1], Akihiro Matsui[1], Kentaro Nakaminami[1], Kousuke Hanada[3,4], Maho Tanaka[1], Motoaki Seki[1,2,3] ([1]RIKEN CSRS, [2]Kihara Inst. Biol. Res., Yokohama City Univ., [3]CREST, JST, [4]Kyushu Inst. Tech.) | 1pB01<br>Exogenous cellulase switches cell interdigitation to cell elongation in an RIC1-dependent manner in cotyledon pavement cells<br>Takumi Higaki[1], Hisako Takigawa-Imamura[2], Kae Akita[1], Natsumaro Kutsuna[1,3], Takashi Miura[2], Seiichiro Hasezawa[1] ([1]Department of Integrated Biosciences, Graduate School of Frontier Sciences, The University of Tokyo, [2]Department of Anatomy and Cell Biology, Graduate School of Medical Sciences, Kyushu University, [3]LPixel Inc.) | 1pC01<br>Phytochromes mediate salicylic acid-induced immunity<br>Amane Toi[1], Mika Nomoto[1], Tomotaka Itaya[1], Hironaka Tsukagoshi[2,3], Tomonao Matsushita[2,4], Yasuomi Tada[1,5] ([1]Div. of Bio. Sci., Grad. Sch. of Sci., Nagoya Univ., [2]JST, PRESTO, [3]Fac. of Agri., Meijo Univ., [4]Fac. of Agri., Kyushu Univ., [5]Cent. for Gene Res., Nagoya Univ.) | 1pD01<br>A Msd1-WDR8 complex is associated with release of microtubule nucleating complexes in cortical microtubule arrays<br>Noriyoshi Yagi[1], Masayoshi Nakamura[2], Takahiro Hamada[2], Mayumi Kawaguchi[2], Takehide Kato[2], Sachihiro Matsunaga[1], Takashi Hashimoto[2] ([1]Dept. Applied Biol. Sci., Fac. Sci. Tech., Tokyo Univ. Sci., [2]Grad. Sch. Biol. Sci., Nara Inst. Sci. Tech.) |
| 14:15 | 1pA02 Ⓔ<br>Auxin and cytokinin negatively regulate hydrotropism in *Arabidopsis* roots<br>Lei Pang, Akie Kobayashi, Nobuharu Fujii, Hideyuki Takahashi (Grad. Sch. Life Sci., Tohoku Univ.) | 1pB02<br>Disturbance of cortical microtubule orientation by sulfamethizole leads to abnormal secondary cell wall patterning during xylem vessel cell differentiation<br>Eri Kamon[1], Misato Ohtani[1,2], Arata Yoneda[1], Taku Demura[1,2] ([1]Graduate School of Biological Sciences, NAIST, [2]RIKEN, Center for Sustainable Resource Science) | 1pC02<br>Transcription cofactor SNI1 and NPR1 antagonistically regulate SA signal through WRKY transcription factor.<br>Kotoe Shimizu[1], Mika Nomoto[1], Yamato Fukui[1], Tomotaka Itaya[1], Tsuyoshi Mori[1], Mutsutomo Tokizawa[2], Yoshiharu Yamamoto[2], Hironaka Tsukagoshi[3,4], Yasuomi Tada[1,5] ([1]Div. of Biol. Sci., Grad. Sch. of Sci., Nagoya Univ., [2]Fac. of Appli. Biol. Sci., Gifu Univ., [3]Fac. of Agr., Meijo Univ., [4]JST, PRESTO, [5]Cent. Gene Res., Nagoya Univ.) | 1pD02<br>Identification of a Holliday junction resolvase in chloroplasts<br>Yusuke Kobayashi[1], Osami Misumi[2], Masaki Odahara[3], Masafumi Hirono[4], Kumi Hidaka[5], Masayuki Endo[6], Hiroshi Sugiyama[5,6], Tsuneyoshi Kuroiwa[7], Toshiharu Shikanai[1], Yoshiki Nishimura[1] ([1]Botany, Kyoto Univ., [2]Sci., Yamaguchi Univ., [3]Sci. Rikkyo Univ., [4]Front. Biosci., Hosei Univ., [5]Chemistry, Grad. Sch. Sci., Kyoto Univ., [6]iCeMS, Kyoto Univ., [7]Sci., Japan Women's Univ.) |
| 14:30 | 1pA03 Ⓔ<br>Exogenous oxidized glutathione restored homeostasis of antioxidant defense (AsA-GSH cycle), maintaining drought-induced oxidative stress in Sesame (Sesamum indicum L.) seedlings<br>Mohamed A. Adam[1,2], Kamrun Nahar[3], Jubayer-Al Mahmud[1,4], Masayuki Fujita[1] ([1]Laboratory of Plant Stress Responses, Department of Applied Biological Science, Faculty of Agriculture, Kagawa University, Miki-cho, Kita-gun, Kagawa 761-0795, Japan, [2]ELOMA Commercial and Agricultural services co. LTD, SUDAN, [3]Department of Agricultural Botany, Faculty of Agriculture, Sher-e-Bangla Agricultural University, Sher-e-Bangla Nagar, Dhaka 1207, Bangladesh, [4]Department of Agroforestry and Environmental Science, Faculty of Agriculture, Sher-e-Bangla Agricultural University, Sher-e-Bangla Nagar, Dhaka 1207, Bangladesh) | 1pB03<br>Cell wall regeneration from protoplasts: A powerful tool for visualization and quantification of cell wall construction process.<br>Hiroaki Kuki[1], Takumi Higaki[2], Ryusuke Yokoyama[1], Seiichiro Hasezawa[2], Kazuhiko Nishitani[1] ([1]Tohoku Univ, life sciences, [2]Tokyo Univ, Frontier sciences) | 1pC03 Ⓔ<br>Identification and characterization of small-molecules that inhibit salicylic acid-dependent defense responses in *Arabidopsis*<br>Nobuaki Ishihama[1], Yoshiteru Noutoshi[2], Seung-won Choi[3], Ivana Saska[1], Shuta Asai[1], Ken Shirasu[1] ([1]RIKEN CSRS, [2]Grad. Sch. Env. Life Sci.,Okayama Univ., [3]Dept. Natural Sciences, ICU) | 1pD03<br>Dynamics of chloroplast nucleoid divisions captured by microfluidic device.<br>Yoshitaka Kamimura, Yusuke Kobayashi, Toshiharu Shikanai, Yoshiki Nishimura (Dep. of Bot., Kyoto Univ.) |
| 14:45 | 1pA04<br>RNA-seq analysis reveals a link between soybean responses to field water deficit and nutrient starvation<br>Yukari Nagatoshi[1], Eri Ogiso-Tanaka[2], Kenta Ikazaki[3], Tesuji Oya[3], Masao Ishimoto[2], Yasunari Fujita[1,4] ([1]Biol. Resources Post-harvest Div., JIRCAS, [2]Inst. of Crop Sci., NARO, [3]Crop, Livestock and Environ. Div., JIRCAS, [4]Grad. Sch. Life Environ. Sci., Univ. Tsukuba) | 1pB04 Ⓔ<br>Analysis of Dof transcription factors regulating property of secondary cell walls<br>Vasagi Ramachandran[1], Misato Ohtani[1,2], Taku Demura[1,2] ([1]Graduate School of Biological Sciences, NAIST, [2]RIKEN, CSRS) | 1pC04 Ⓔ<br>Characterization of components involved in immune system in *Marchantia polymorpha*<br>Izumi Yotsui[1], Hidekazu Iwakawa[2], Hidenori Matsui[1], Yuko Nomura[1], Katharina Kramer[2], Anne Harzen[2], Takehiko Kanazawa[3,4], Ryuichi Nishihama[5], Shinpei Katou[6], Takashi Ueda[3,7,8], Takayuki Kohchi[5], Hirofumi Nakagami[1,2] ([1]CSRS, RIKEN, [2]Max Planck Institute for Plant Breeding Research, [3]Division of Cellular Dynamics, National Institute for Basic Biology, [4]Graduate School of Science, University of Tokyo, [5]Graduate School of Biostudies, Kyoto University, [6]Graduate School of Agriculture, Shinshu University, [7]Department of Basic Biology, SOKENDAI, [8]PRESTO, JST) | 1pD04<br>A role of chloroplast $Ca^{2+}$-binding protein CAS in the generation of cytosolic $Ca^{2+}$ signals elicited by flg22 peptide in *Arabidopsis thaliana*<br>Miho Kotani, Takuya Watanabe, Seiya Yamaoka, Koji Shimotani, Kanako Yamasaki, Satoshi Sano, Takashi Shiina (Grad. Sch. Life and Env. sci., Kyoto Pref. Univ.) |
| 15:00 | 1pA05<br>Analysis for the dynamics of a chromatin remodeler in DNA damages response<br>Takeshi Hirakawa, Sachihiro Matsunaga (Dept. Applied Bio. Sci., Fac. Sci. Tech., Tokyo Univ. Sci.) | 1pB05 Ⓔ<br>A genetic screen for suppressor mutants of VND7-mediated xylem vessel cell differentiation<br>Pawittra Phookaew[1], Ryosuke Sano[1], Takaomi Suzuki[1], Misato Ohtani[1,2], Taku Demura[1,2] ([1]NAIST, [2]RIKEN CSRS) | 1pC05 Ⓔ<br>ENDOPHYTE-PATHOGEN INTERACTIONS OF CLOSELY-RELATED COLLETOTRICHUM FUNGI ON THE HOST ARABIDOPSIS THALIANA<br>Kuldanai Pathompitaknukul[1], Kei Hiruma[1,2], Yusuke Saijo[1,2] ([1]Nara Institute of Science and Technology, [2]JST PRESTO) | 1pD05<br>Transcriptional Regulation Depending on Primitive Retrograde Signaling in *C. merolae*<br>Hikaru Oohara[1], Hiroyuki Ando[1], Yuki Kobayashi[2], Sousuke Imamura[2], Kan Tanaka[2], Masayuki Igarashi[3], Ryutaro Utsumi[4], Mitsumasa Hanaoka[1] ([1]Grad. Sch. Horticul., Chiba Univ., [2]Chem. Life Sci. Lab., Tokyo Tech., [3]Inst. Microb. Chem., [4]Fac. Agr., Kinki Univ.) |

| Room E | Room F | Room G | Room H | Room W | Room X | Room Y | Room Z | Time |
|---|---|---|---|---|---|---|---|---|
| | Epigenetic regulation | Environmental responses/ Abiotic stresses (Temperature) | Environmental response of photosynthesis and respiration | | Symposium S04 New aspects in plant nutrition (14:00–17:00) | Symposium S05 A new horizon in photosynthesis research: Regulation via Proton Motive Force (14:00–17:00) | | 14:00 |
| | 1pF01<br>Auxin signaling acts in the regulation of chromatin structure.<br>Junko Hasegawa[1], Takuya Sakamoto[1], Takamasa Suzuki[2], Satoru Fujimoto[1], Tomoe Yamashita[1], Sachihiro Matsunaga[1] ([1]Dept. Applied Bio. Sci., Fac. Sci. Tech., Tokyo Univ. Sci., [2]Chubu Univ.) | 1pG01<br>Natural variation in continuous heat tolerance among *Arabidopsis thaliana* accessions<br>Kotaro Nakamura[1], Satoshi Iuchi[2], Masatomo Kobayashi[2], Takahisa Hayashi[1], Yoichi Sakata[1], Teruaki Taji[1] ([1]Department of Bioscience, Tokyo University of Agriculture, [2]BRC/Riken) | 1pH01<br>Putative Mitogen Activated Protein Kinase (MAPK) Signaling Modulates Chloroplastic Gene Expression in *Chlamydomonas reinhardtii*<br>Haruhiko Jimbo[1], Yoshitaka Nishiyama[1], Krishna Niyogi[2,3] ([1]Graduate School of Science and Engineering, Saitama University, [2]Howard Hughes Medical Institute, Department of Plant and Microbial Biology, University of California, Berkeley, [3]Molecular Biophysics and Integrated Bioimaging Division, Lawrence Berkeley National Laboratory) | | | | | |
| | 1pF02<br>Analysis of Histone Deacetylase for Shoot Regeneration in *Arabidopsis*<br>Haruka Temman[1], Kaoru Sugimoto[1], Minoru Ueda[2], Motoaki Seki[2], Sachihiro Matsunaga[1] ([1]Dept. Applied Bio. Sci., Fac. Sci. Tech., Tokyo Univ. Sci., [2]CSRS, RIKEN) | 1pG02<br>Genetic dissection of heat tolerance between *Arabidopsis thaliana* Da (1)-12 and Ei-2<br>Erina Sato[1], Hirotaka Ariga[1], Kotaro Nakamura[1], Luis Barboza[2], Keisuke Tanaka[3], Yoichi Sakata[1], Takahisa Hayashi[1], Teruaki Taji[1] ([1]Plantgenetics Lab, Dept. of Bioscience, Tokyo Univ. of Agriculture, [2]Max-Planck Institute for Plant Breeding Research, [3]Nodai Genome research Center) | 1pH02<br>Strategy to Protect Photosystem I against Photo-oxidative Damage in the Evolutional Bridge from Algae to Plants: Flavodiiron Proteins Function in P700 Oxidation in the Liverwort *Marchantia polymorpha*<br>Ginga Shimakawa[1], Kimitsune Ishizaki[2], Moeko Tanaka[1], Daisuke Takagi[1], Hitomi Hanawa[1], Chikahiro Miyake[1] ([1]Grad. Sch. Agri., Univ. Kobe, [2]Grad. Sch. Sci., Univ. Kobe) | | | | | 14:15 |
| | 1pF03<br>Epigenetic control via histone modification influences systemic immunity and priming in Arabidopsis thaliana<br>Yuri Tajima[1], Eliza Loo[1], Eva-Maria Reimer-Michalski[2], Barbara Kracher[2], Franciska Turck[2], Yusuke Saijo[1,2,3] ([1]NAIST, [2]MPIPZ, [3]JST PRESTO) | 1pG03<br>Vascular plant one-zinc-finger protein 2 localizes both nucleus and stress granules under heat stress condition in Arabidopsis<br>Misaki Koguchi, Kanako Yamasaki, Tomoko Hirano, Masahiko Sato (Grad. Sch. Sci., Kyoto pref. Univ.) | 1pH03<br>Alkenal/one oxidoreductase (AOR) protects PSI from oxidative damages: repetitive short-pulse (rSP) illumination produces reactive carbonyl species (RCS) through the production of reactive oxygen species (ROS).<br>Daisuke Takagi[1], Ayaka Kohara[1], Kanae Kadota[1], Kentaro Ifuku[2], Chikahiro Miyake[1] ([1]Fac. Agri. Grad. Sch. Kobe Univ., Japan, [2]Fac. Agri. Grad. Sch. Kyoto Univ., Japan) | | | | | 14:30 |
| | 1pF04<br>Transcription factor STEMIN1 regulates the histone H3K27me3 level of genes involved in stem cell formation<br>Mio Morishita[1,2], Masaki Ishikawa[1,2,3], Mitsuyasu Hasebe[1,2,3] ([1]National Institute for Basic Biology, [2]School of Life Science, SOKENDAI (The Graduate University for Advanced Studies), [3]ERATO, Japan Science and Technology Agency) | 1pG04<br>Analysis of Phosphorylation in the Post-Translational Regulation of the Stress-Responsive Transcription Factor DREB2A<br>Junya Mizoi[1], Natsumi Kanazawa[1], Feng Qin[2], Satoshi Kidokoro[1], Kazuo Shinozaki[3], Kazuko Yamaguchi-Shinozaki[1] ([1]Grad. Sch. Agr. Life Sci., Univ. Tokyo, [2]Biol. Resources Post-harvest Div., [3]Center for Sustainable Resource Science, RIKEN) | 1pH04<br>Analysis of a *cis*-encoded antisense RNA within the *cpc* operon in the cyanobacterium *Synechocystis* sp. PCC 6803<br>Makoto Itagaki[1], Wolfgang Hess[2], Yukako Hihara[1] ([1]Grad. Sch. Sci. Eng., Saitama Univ., [2]Fac. Biol., Freiburg Univ.) | | | | | 14:45 |
| | 1pF05<br>Seasonal analysis of genome-wide DNA methylation in perennial Arabidopsis halleri in the natural environment<br>Tasuku Ito[1], Yoshiaki Tarutani[2], Haruki Nishio[1], Atsushi Toyoda[3], Asao Fujiyama[3], Tetsuji Kakutani[2,4], Hiroshi Kudoh[1] ([1]Center for Ecological Research, Kyoto University, [2]Department of Integrated Genetics, National Institute of Genetics, [3]Advanced Genomics Center, National Institute of Genetics, [4]Department of Biological Sciences, Graduate School of Science, the University of Tokyo) | 1pG05<br>Functional analysis of the Arabidopsis CAMTA family transcription factors in cold stress responses<br>Satoshi Kidokoro[1], Koshi Yoneda[1], Hironori Takasaki[2], Fuminori Takahashi[2], Kazuo Shinozaki[2], Kazuko Yamaguchi-Shinozaki[1] ([1]Grad. Sch. Agr. Life Sci., Univ. Tokyo, [2]Center for Sustainable Resource Science, RIKEN) | 1pH05<br>Genome-wide searching for target genes of the transcription factor RpaB in the cyanobacterium *Synechocystis* sp. PCC 6803<br>Ryuta Nagayama[1], Taro Kadowaki[1], Matthias Riediger[2], Wolfgang Hess[2], Yukako Hihara[1] ([1]Grad.Sch.Sci.Eng., Saitama Univ., [2]Fac.Biol., Freiburg Univ.) | | | | | 15:00 |

E=Presentation in English

# ● Day 1　2017 / 03 / 16 (Thu)　14:00–17:00

| Time | Room A | Room B | Room C | Room D |
|---|---|---|---|---|
| | Environmental responses/Abiotic stresses (Drought/Water/Osmotic pressure/Others) | | | Organelles/Cytoskeletons |
| 15:15 | 1pA06<br>Circadian Gating Of High Light Response In Cyanobacterium *Synechococcus elongatus* PCC 7942<br>Tatsuhiro Tsurumaki[1,2], Kan Tanaka[2,3] ([1]School of Life Science and Technology, Tokyo Institute of Technology, [2]Laboratory for Chemistry and Life Science, Tokyo Institute of Technology, [3]JST, CREST) | | | 1pD06<br>Mechanism for the Cell-type Specific Expression of the Chloroplast *ndh* Genes in *Zea mays*<br>Haruna Yano, Kota Ishibashi, Yoshiki Nishimura, Toshiharu Shikanai (Grad. Sch. Sci., Kyoto Univ.) |
| 15:30 | 1pA07<br>Regulation mechanism of Root Cell Elongation through ROS responsible TF in Arabidopsis.<br>Hiromasa Maki[1], Kaho Mabuchi[1], Tomotaka Itaya[2], Satomi Sakaoka[6,8,9], Mika Nomoto[2], Takamasa Suzuki[3,4,7], Tetsuya Higashiyama[3,4,5], Yasuomi Tada[6], Hironaka Tsukagoshi[6,8,9] ([1]Grad. Sch. Bioagr. Sci., Univ. Nagoya, [2]Grad. Sch. Sci., Univ. Nagoya, [3]Divi.of Biosci. and Grad. Sch. Sci., Univ. Nagoya, [4]JST ERATO, Higashiyama live-holonics, [5]WPI-ITBM., Univ. Nagoya, [6]The Center for geen Rse., Univ. Nagoya, [7]Chubu university, [8]PRESTO, JST, [9]Fac.of Agr., Univ of Meijo) | | | 1pD07<br>CDKA regulates light signaling in *Physcomitrella patens*<br>Natsumi Inoue[1], Bao Liang[1], Masaki Ishikawa[2,3], Takeshi Higa[4], Yuji Hiwatashi[5], Masami Sekine[6], Masaaki Watahiki[7], Mitsuyasu Hasebe[2,3], Masamitsu Wada[4], Tomomichi Fujita[7] ([1]Grad. Sch. of Life Sci., Hokkaido Univ., [2]Natl. Inst. Basic Biol., [3]Sch. Life Sci., Grad. Univ. Adv. Stud., [4]Fac. Sci., Kyushu Univ., [5]Sch. Food, Agri. Environ. Sci., Miyagi Univ., [6]Dept. of Bioprod., Ishikawa Pref. Univ., [7]Fac. of Sci., Hokkaido Univ.) |
| 15:45 | 1pA08<br>Metabolome analysis revealed the cause of an unexplained disease of Japanese gentian<br>Hideyuki Takahashi[1], Hiroshi Abe[2], Kohei Fujita[1], Ken-Taro Sekine[3] ([1]Iwate Biotechnology Research Center, [2]Iwate Agricultural Research Center, [3]University of the Ryukyus) | | | 1pD08<br>Studies of *GUN1*-mediated regulation of seedling de-etiolation<br>Nobuyoshi Mochizuki, Akira Nagatani (Graduate School of Science, Kyoto University) |
| 16:00 | 1pA09<br>Maintenance of root elongation of barley in high pH nutrient solution is supported by active cell proliferation and differentiation in the root apex.<br>Kyoko Higuchi, Rei Araki, Shogo Nakamura, Taira Makishima, Tetsuya Uesugi, Masauki Sue (Tokyo Univ. of Agriculture, Dept. of Applied Bioloy and Chemistry) | | | 1pD09 E<br>Biochemical characterization of tetrapyrrole-binding pentatricopeptide-repeat (PPR) proteins in plastids<br>Awasthi Saumya[1], Tomohiro Shimada[2], Kan Tanaka[2], Nobuyoshi Mochizuki[3], Tatsuru Masuda[1] ([1]Graduate School of Arts and Sciences, The University of Tokyo, [2]Chemical Research Laboratory, Tokyo Institute of Technology, [3]Graduate School of Science, Kyoto University, [4]Faculty of Bioscience, Tokyo University of Agriculture) |
| 16:15 | 1pA10<br>Arabidopsis lipins regulate photosynthetic membrane turnover under nitrogen starvation<br>Yushi Yoshitake[1], Ryoichi Sato[2], Yuka Madoka[3], Keiko Ikeda[4], Masato Murakawa[5], Ko Suruga[5], Daisuke Sugiura[6], Ko Noguchi[7], Hiroyuki Ohta[1,8,9], Mie Shimojima[1] ([1]Sch. Life Sci., TITech, [2]Center for Bio. Info., TITech, [3]Lab. Chem. Life sci., TITech, [4]Tech. Dep., TITech, [5]Grad. Sch. Bio., TITech, [6]Grad. Sch. Sci., Univ. Tokyo, [7]Sch. Life Sci., Tokyo Univ. Pharm. Life Sci., [8]ELSI, TITech, [9]CREST, JST) | | | 1pD10 E<br>The Inner Nuclear Membrane Protein KAKU4 Is Involved in Controlling Migration Order of the Vegetative Nucleus and Sperm Cells in Growing Pollen Tubes<br>Chieko Goto[1], Kentaro Tamura[1], Ikuko Hara-Nishimura[2] ([1]Grad. Sch. of Sci., Kyoto Univ., [2]Faculty of Sci. and Eng., Konan Univ.) |
| 16:30 | | | | 1pD11 E<br>Effect of ABA on chloroplast division of the moss *Physcomitrella patens*<br>Prapaporn Pongthai[1], Hiroyoshi Takano[2], Yasushi Yoshioka[3], Tomomichi Fujita[4] ([1]Grad. Sch. of Life Sci., Hokkaido Univ., [2]Fac. of Sci., Kumamoto Univ., [3]Grad. Sch. of Sci., Nagoya Univ., [4]Fac. of Sci., Hokkaido Univ.) |
| 16:45 | | | | |

| Room E | Room F | Room G | Room H | Room W | Room X | Room Y | Room Z | Time |
|---|---|---|---|---|---|---|---|---|
| | Epigenetic regulation | Environmental responses/ Abiotic stresses (Temperature) | Environmental response of photosynthesis and respiration | | Symposium S04 New aspects in plant nutrition (14:00–17:00) | Symposium S05 A new horizon in photosynthesis research: Regulation via Proton Motive Force (14:00–17:00) | | 15:15 |
| | 1pF06<br>diRNAs are Generated from Transgenes Targeted by CRISPR/Cas9<br>Daisuke Miki, Jian-Kang Zhu (Shanghai Center for Plant Stress Biology, CHINESE ACADEMY OF SCIENCES) | 1pG06<br>Why are saintpaulia leaves sensitive to rapid temperature decrease ?<br>Miwa Ohnishi[1], Noriaki Kadohama[1], Kimitsune Ishizaki[1], Hidehiro Fukaki[1], Yoshihiro Suzuki[2], Tetsuro Mimura[1] ([1]Graduate School of Science, Kobe Univ., [2]Faculty of Science, Kanagawa Univ.) | 1pH06<br>Physiological role of tetrapyrrole bound to the sulfide-responsive transcriptional factor SqrR, involved in the ancestral photosynthetic electron transfer<br>Takayuki Shimizu[1], Shinji Masuda[2,3] ([1]Graduate School of Bioscience & Biotechnology, Tokyo Institute of Technology, [2]Center for Biological Resources and Informatics, Tokyo Institute of Technology, [3]Earth-Life Science Institute, Tokyo Institute of Technology) | | | | | |
| | | 1pG07<br>Analysis of plant adaptation to temperature using metabolome and transcriptome<br>Natsuki Hayami[1], Ayaka Hieno[1], Miyako Kusano[2,3], Kyonoshin Maruyama[4], Mieko Higuchi[2], Kousuke Hanada[5], Minami Matsui[2], Yoshiharu Yamamoto[1,2,6] ([1]The United Graduate School of Agricultural Sciences, Gifu University, [2]RIKEN CSRS, [3]Faculty of Life and Environmental science, Tsukuba University, [4]JIRCAS, [5]Ftontier Research Academy for Young Researchers, Kyushu Institute of Technology, [6]JST ALCA) | 1pH07<br>Day Length-depended Delayed Greening 1 (DLDG1) Is Associated To No-Photochemical Quenching<br>Ryoichi Sato[1], Takatoshi Arizono[2], Kyouhei Harada[3], Shinji Masuda[1] ([1]Center for Biological Resources and Informatics, Tokyo Inst. Technol., [2]Grad. Sch. Biosci. Biotechnol., Tokyo Inst. Technol., [3]Biosci. Biotechnol., Tokyo Inst. Technol.) | | | | | 15:30 |
| | | 1pG08<br>Temperature-sensitive relocalization of AN protein<br>Yuki Yoshida[1], Koro Hattori[1], Tomohiro Uemura[1], Akihiko Nakano[1,2], Hirokazu Tsukaya[1,3] ([1]Graduate School of Science, The University of Tokyo, [2]RIKEN Center for Advanced Photonics, [3]Okazaki Institute for Integrative Bioscience, NINS) | 1pH08<br>Effects of cyanobacterial bicarbonate transporters targeted to the chloroplast inner envelope membrane on the growth of Arabidopsis<br>Susumu Uehara[1], Yasuko Ito-Inaba[2], Izumi Mori[3], Takehito Inaba[1] ([1]Grad. Sch. Agr., Univ. Miyazaki, [2]TT Organization, Univ. Miyazaki, [3]IPSR, Okayama Univ.) | | | | | 15:45 |
| | | 1pG09<br>Calcium Signals in Plant Cells during Cold Acclimation: Views from Temperature Fluctuation in the Field<br>Hayato Hiraki[1], Yoko Tominaga[2], Matsuo Uemura[1,2,3], Yukio Kawamura[1,2,3] ([1]United Grad. Sch. Agr. Sci., Univ. Iwate, [2]Cryobiofrontier Research Center, Agr., Univ. Iwate, [3]Plant-bioscience, Agr., Univ. Iwate) | 1pH09<br>Effects of Nutrient Deficiency and Strong Light on Growth and Photosynthesis in a Red Tide-forming Dinoflagellate Karenia mikimotoi.<br>Koki Yuasa[1], Tomoyuki Shikata[2], Yoshitaka Nishiyama[1] ([1]Grad. Sch. Sci. Eng., Saitama Univ., [2]Natl. Res. Inst. of Fisheries & Environment of Inland Sea) | | | | | 16:00 |
| | | 1pG10<br>Analysis of cold acclimation using Arabidopsis grown in a whole-plant submerged culture system<br>Ryota Mihara[1], Saori Kamimura[1], Yasuko Ito-Inaba[2], Takehito Inaba[1] ([1]Fac. Agr., Univ. Miyazaki, [2]TT Org., Univ. Miyazaki) | 1pH10<br>Land plants drive photorespiration as higher electron-sink: Comparative study of post-illumination transient $O_2$-uptake rates from liverworts to angiosperms through ferns and gymnosperms<br>Hitomi Hanawa[1], Daisuke Takagi[1], Ginga Shimakawa[1], Amane Makino[2], Chikahiro Miyake[1] ([1]Grad. Agri., Univ. Kobe, [2]Grad. Agri., Univ. Tohoku) | | | | | 16:15 |
| | | 1pG11<br>Visualization of freeze initiation in the pith of Forsythia stems using infra-red thermography<br>Masaya Ishikawa[1], Hiroki Murakawa[2], Hideyuki Yamazaki[3], Kazuyuki Kuchitsu[1,2] ([1]Tokyo Univ Sci, Imaging Frontier Center, [2]Tokyo Univ Sci, Appl Biol Sci, [3]NITE) | 1pH11<br>Characterization of alternative oxidase in thermogenic cycad (*Cycas revoluta*)<br>Yasuko Ito-Inaba[1], Yoko Katayama[1], Yuya Kurayama[1,2], Koichiro Mizoguchi[1,2], Takehito Inaba[2] ([1]OPTT, Univ. Miyazaki, [2]Fac. Agri., Univ. Miyazaki) | | | | | 16:30 |
| | | 1pG12 Ⓔ<br>Impact of sub-zero acclimation on the extracellular matrix and its significance in freezing tolerance<br>Daisuke Takahashi, Alexander Erban, Michal Gorka, Joachim Kopka, Alexander Graf, Ellen Zuther, Dirk K. Hincha (Max-Planck-Institute of Molecular Plant Physiology) | 1pH12<br>Developing the instrument for the instant measurement of the leaf photosynthetic rate<br>Yu Tanaka[1], Naofumi Aoki[2], Shigeyuki Akiyama[2], Toshiaki Ikeda[2], Tomio Mizuno[2], Akira Kobayashi[2], Shunsuke Adachi[3], Masakatsu Uchiyama[2] ([1]Graduate School of Agriculture, Kyoto University, [2]Masa International Corp., [3]Institution of Global Innovation Research, Tokyo University of Agriculture and Technology) | | | | | 16:45 |

Ⓔ=Presentation in English

# ● Day 2　2017 / 03 / 17 (Fri)　9:00–12:00

| Time | Room A | Room B | Room C | Room D |
|---|---|---|---|---|
| | Environmental responses/Abiotic stresses (Temperature/Ion/Salt/Mineral) | Reproductive growth | Plant-microbe interaction (Immunity/Symbiosis) | Vegetative growth |
| 9:00 | 2aA01 E<br>Apoplastic proteome and biochemical responses to cold acclimation in 'Norstar' winter wheat crown tissues<br>IR Willick[1], Daisuke Takahashi[2,3], Matsuo Uemura[2,4], DB Fowler[1], KK Tanino[1] ([1]Department of Plant Sciences, University of Saskatchewan, [2]Department of Plant-Biosciences and Cryobiofrontier Research Center, Iwate University, [3]Max-Planck-Institute of Molecular Plant Physiology, [4]Faculty of Agriculture, Cryobiofrontier Research Center, Iwate University) | 2aB01<br>MIKC classic type MADS-box genes regulate external water conduction and sperm movement necessary for fertilization in the moss *Physcomitrella patens*.<br>Shizuka Koshimizu[1,2], Naoki Aono[1], Yuko Sasaki-Sekimoto[3,4], Shuji Shigenobu[5], Mie Shimojima[4], Hiroyuki Ohta[3,4,6], Takashi Murata[1,2], Mitsuyasu Hasebe[1,2] ([1]Div. Evol. Biol., NIBB, [2]Sch. Sci., SOKENDAI, [3]JST CREST, [4]Grad. Sch. Life Sci. & Tech., Tokyo Tech, [5]Func. Genomics Fac., NIBB, [6]ELSI, Tokyo Tech) | 2aC01 E<br>[Cancelled] | 2aD01<br>Identification of a bHLH gene involved in gemma dormancy of the liverwort *Marchantia polymorpha*<br>Mikako Yoshikawa[1], Shigeyuki Tsukamoto[1], Hidehiro Fukaki[1], Tetsuro Mimura[1], Daisuke Takezawa[2], Yoichi Sakata[3], Kimitsune Ishizaki[1] ([1]Graduate School of Science, Kobe University., [2]Graduate School of Science and Engineering, Saitama University., [3]Graduate School of Applied Bio-Science, Tokyo University of Agriculture.) |
| 9:15 | 2aA02 E<br>Development of heat tolerant plants by manipulating the expression of sORF AT4<br>Khurram Bashir[1], Kentaro Nakaminami[1], Mieko Higuchi[2], Takeshi Yoshizumi[3], Masanori Okamoto[4], Minami Shimizu[2], Chihiro Ohashi[2], Maho Tanaka[1], Minami Matsui[2], Kazuo Shinozaki[1], Kousuke Hanada[6], Motoaki Seki[1,7] ([1]Plant Genomics Network Research Team , RIKEN CSRS, [2]Gene Discovery Research Group, RIKEN CSRS, [3]Inst Adv Biosci, Keio University, [4]Arid Land Research Center, Tottori University, [5]Synthetic Genomics Research Team, RIKEN CSRS, [6]Frontier Research Academy for Young Researchers, Kyushu Institute of Technology, [7]CREST, JST, 4-1-8 Honcho, Kawaguchi, Saitama, 332-0012, Japan) | 2aB02<br>Functional analysis of *CpRLP1* gene, expressed during conjugation of *Closterium peracerosum-strigosum-littorale* complex, using CRISPR/Cas9 System<br>Naho Kanda[1], Tomoaki Nishiyama[2], Yuki Tsuchikane[3], Hiroyuki Sekimoto[3] ([1]Grad. Sch. Sci., Japan Women's Univ., [2]Adv. Sci. Res. Cent., Kanazawa Univ., [3]Fac. Sci., Japan Women's Univ.) | 2aC02 E<br>OsGAPC3 acts as a NO sensor to trigger disease resistance to rice blast fungus through S-nitrosylation of GAPDH<br>Ken-Ichi Kosami[1,2], Jing Su[2], Ko Shimamoto[2], Yoji Kawano[1,2] ([1]Signal transduction and Immunity Group, Shanghai Center for Plant Stress Biology, [2]Laboratory of Plant Molecular Genetics, Grad. Dept. of Biological Science, NAIST) | 2aD02<br>Roles of endoreduplication in the regulation of haustorium development in the parasitic plant *Cuscuta campestris*<br>Hideki Narukawa[1], Yuki Kaga[1], Koki Shibata[1], Tetsuya Kurata[1], Takeshi Obayashi[2], Takeshi Kuroha[1], Ryusuke Yokoyama[1], Kazuhiko Nishitani[1] ([1]Grad. Sch. of Life Sci., [2]Grad. Sch. of Info Sci.) |
| 9:30 | 2aA03 E<br>[Cancelled] | 2aB03<br>Live imaging analyses of Arabidopsis mutants defective in polar nuclear fusion<br>Shuh-ichi Nishikawa[1], Daisuke Kurihara[2,3], Daisuke Maruyama[4], Yoshikatsu Sato[5], Tetsuya Higashiyama[2,3,5] ([1]Fac. Sci, Niigata Univ., [2]Grad. Sch. Sci., Nagoya Univ., [3]JST ERATO, [4]KIBR, Yokohama City Univ., [5]WPI-ITbM, Nagoya Univ.) | 2aC03 E<br>[Cancelled] | 2aD03<br>Reduced expression of ribosomal RNA processing factor APUM24 impacts sugar response<br>Shugo Maekawa, Tetsuya Ishida, Shuichi Yanagisawa (Biotech. Res. Center) |
| 9:45 | 2aA04<br>Mutation in *OsSOS2* inhibits radiocesium uptake by rice roots<br>Satoru Ishikawa[1], Shimpei Hayashi[2], Tadashi Abe[1], Hiroki Takagi[3] ([1]NIAES, NARO, [2]NIAS, NARO, [3]Ishikawa Prefectural University) | 2aB04<br>Critical roles of autophagy in the regulation of reproductive development, programmed cell death and metabolism in rice<br>Kazuyuki Kuchitsu[1,2], Yuri Sera[1], Jumpei Sawada[1], Bunki Toh[1], Seijiro Ono[3], Shigeru Hanamata[2], Shingo Sakamoto[4], Nobutaka Mitsuda[4], Toshiaki Mitsui[5], Ken-ichi Nonomura[3], Takamitsu Kurusu[2,6] ([1]Dept. Appl. Biol. Sci., Tokyo Univ. of Science, [2]Imaging Frontier Center, Tokyo Univ. of Science, [3]Natl. Inst. of Genetics, [4]AIST, [5]Niigata Univ., [6]Tokyo Univ. of Tech.) | 2aC04 E<br>How do host legume plants reject cheating rhizobia?<br>Mai Fukuhara[1,2], Wakana Nishiyama[3], Kana Miyata[4], Nanami Sone[4], Sara Kibi[3], Kiminori Toyooka[5], Mayuko Sato[5], Mayumi Wakazaki[5], Shigeki Yabe[3], Kazuhiko Saeki[6], Shin Okazaki[7], Masayoshi Kawaguchi[1,2], Tomomi Nakagawa[1,8] ([1]NIBB, [2]SOKENDAI, [3]YSFH, [4]Meiji Univ., [5]RIKEN CSRS, [6]Nara Women's Univ., [7]Tokyo Univ. of Agricul. Technol., [8]Nagoya Univ.) | 2aD04<br>A pyridine-thiazole derivative, bubblin, inhibits the establishment of cell polarity during the stomatal development<br>Yumiko Sakai[1], Shigeo S Sugano[1,2], Tsuyoshi Nakagawa[3], Ikuko Hara-Nishimura[4], Tomoo Shimada[1] ([1]Graduate School of Sci., Kyoto Univ., [2]JST PRESTO, [3]Shimane University, [4]Konan University) |

| Room E | Room F | Room G | Room H | Room W | Room X | Room Y | Room Z | Time |
|---|---|---|---|---|---|---|---|---|
| Photoreceptors/ Photoresponses | Primary metabolism | Plant hormones/ Signaling molecules | Photosystem | Symposium S06 Increasing the strength of genome editing to elucidate molecular mechanisms in plants. (9:00–12:00) | Symposium S07 Frontier of Plant Epigenome Regulation in Environmental Stress Adaptation and Development (9:00–11:40) | Symposium S08 Molecular Basis for "Extended Phenotypes" in Plant/Animal-Microbe Interactions (9:00–12:00) | Symposium S09 New aspects in plant endomembrane research (9:00–12:00) | |
| 2aE01<br>Study of Phytochrome3 Function in the *Adiantum capillus-veneris*<br>Izumi Kimura, Takeshi Kanegae (Dept. of Biol. Sci., Grad. Sch. of Sci. and Eng., Tokyo Metropolitan Univ.) | 2aF01<br>Phosphate uptake-based evaluation of different nitrogen- and phosphorus-starvation responses of genetically diverse rice cultivars<br>Yoshiaki Ueda[1], Mitsue Miyao-Tokutomi[2], Shuichi Yanagisawa[1] ([1]Biotechnology Research Center, The University of Tokyo, [2]Graduate School of Agricultural Science, Tohoku University) | 2aG01<br>Functional analysis of a gene for thermospermine synthase, *MpACL5*, in the liverwort *Marchantia Polymorpha*.<br>Takuya Furumoto[1], Kento Otani[1], Kimitsune Ishizaki[2], Shohei Yamaoka[3], Takayuki Kohchi[3], Hiroyasu Motose[1], Taku Takahashi[1] ([1]Grad. Sch. Nat. Sci. & Tech., Okayama Univ, [2]Grad. Sch. Sci., Kobe Univ., [3]Grad. Sch. Biostudies, Kyoto Univ.) | 2aH01<br>Protonation structure of a key His residue interacting with the photosynthetic Mn cluster<br>Shin Nakamura, Takumi Noguchi (Grad. Sch. Sci., Nagoya Univ.) | | | | | 9:00 |
| 2aE02<br>Chloroplast Avoidance Response via Light, Oxygen, or Voltage (LOV) Domains of Phototropin in *Marchantia polymorpha*.<br>Yuta Fujii[1,2], Koji Okajima[3], Yutaka Kodama[2] ([1]United Grad. Sch. Agric. Sci., Tokyo Univ. Agric. Technol., [2]Ctr. Biosci. Res. & Edu., Utsunomiya Univ., [3]Grad. Sch. Sci. Technol., Keio Univ.) | 2aF02<br>The mechanisms underlying growth promotion in chitin-treated plants<br>Mayumi Egusa[1], Shiori Nakatani[1], Chihiro Miura[1], Sumire Matsukawa[1], Jyunpei Yamada[1], Yoko Nishizawa[2], Shinsuke Ifuku[3], Hironori Kaminaka[1] ([1]Fac. Agr., Tottori Univ., [2]Inst. Agr. Sci., NARO, [3]Grad Sch. Eng., Tottori Univ.) | 2aG02<br>Identification and characterization of AHG1-mediated ABA signaling components in Arabidopsis<br>Noriyuki Nishimura[1], Wataru Tsuchiya[2], James Moresco[3], Kouji Satoh[1], Nahomi Kaiwa[1], Tomoko Irisa[1], Yuki Hayashi[4], Toshinori Kinoshita[4], Julian Schroeder[5], John Yates[3], Takashi Hirayama[6], Toshimasa Yamazaki[2] ([1]ICS, NARO, [2]AAC, NARO, [3]TSRI, [4]Grad. Sch. Sci., Nagoya Univ, [5]UCSD, [6]IPSR, Okayama Univ) | 2aH02<br>Bond distances in the intact Mn4CaO5-cluster of oxygen-evolving photosystem II at 1.62 Å resolution<br>Keisuke Kawakami[1], Naoto Inohara[2], Nobuo Kamiya[1,2] ([1]The OCU Advanced Research Institute for Natural Science & Technology (OCARINA), Osaka City University, [2]Graduate School of Science, Osaka City University) | | | | | 9:15 |
| 2aE03<br>The Influence of a P4-ATPase (Phospholipid Flippase) Mutant on the Phototropin Responses in *Arabidopsis*.<br>Masahiro Nagao[1], Atsushi Takemiya[2], Nobuyoshi Mochizuki[1], Akira Nagatani[1], Tomomi Suzuki[1] ([1]Graduate School of Science Kyoto University, [2]Graduate School of Sciences and Technology for Innovation Yamaguchi University) | 2aF03<br>Succinate Production Using Cyanobacteria<br>Hiroko Iijima, Sakiko Ueda, Yuhki Kawamura, Takashi Osanai (Meiji University, School of Agriculture) | 2aG03<br>Identification of florigen gene family in breed wheat and their expression profiling in the synthetic wheat<br>Akina Mitsuhashi[1], Rie Shimizu[2], Shigeo Takumi[3], Kentarou Shimizu[2], Hisashi Tsujimoto[4], Tomohiro Ban[1], Hiroyuki Tsuji[1] ([1]KIBR, YCU, [2]University of Zurich, [3]Grad. Sch. Agr. Sci., Kobe Univ., [4]Arid Land Res. cent., Tottori Univ.) | 2aH03<br>Role of Orange Carotenoid Protein in Protection of Photosystem II against Photoinhibition in *Synechocystis* sp. PCC 6803<br>Hiroko Takahashi[1,2], Yuri Kusama[1], Xinxiang Li[2], Shinichi Takaichi[3], Shigeru Itoh[4], Hisanori Yamakawa[5], Yoshitaka Nishiyama[1,2] ([1]Graduate school of Science and Engineering, Saitama University, [2]Department of Biochemistry and Molecular Biology, Saitama University, [3]Department of Biology, Nippon Medical School, [4]Center for Gene Research, Nagoya University, [5]Graduate School of Bioagricultural Sciences, Nagoya University) | | | | | 9:30 |
| 2aE04<br>The Functional Analysis of P4-ATPase (Phospholipid Flippase) in Stomatal Opening.<br>Tomomi Suzuki[1], Masahiro Nagao[1], Yusuke Aihara[2], Akira Nagatani[1] ([1]Faculty Sci., Kyoto Univ., [2]NIBB, Faculty Environmental Biology) | 2aF04<br>A novel regulation mechanism of 3-phosphoglycerate dehydrogenase for serine biosynthesis in plants<br>Eiji Okamura, Masami Yokota Hirai (RIKEN CSRS) | 2aG04<br>Regulation of target genes by DELLA-GAF1 complex in gibberellin signaling<br>Jutarou Fukazawa, Yuki Ohashi, Ryota Mori, Yohsuke Takahashi (Grad. Sch. Sci., Univ. Hiroshima) | 2aH04<br>Spectroscopic analysis of photosystem II complexes with unique absorption band isolated from new chlorophyll containing cyanobacterium<br>Toshiyuki Shinoda[1], Daisuke Nii[1], Seiji Akimoto[2,3], Tatsuya Tomo[1,4] ([1]Grad. Sch. Sci., Tokyo Univ. Sci., [2]Grad. Sch. Sci., Kobe Univ., [3]Molecular Photoscience Research Center, Kobe Univ., [4]JST PRESTO) | | | | | 9:45 |

Ⓔ=Presentation in English

# ● Day 2　2017 / 03 / 17 (Fri)　9:00–12:00

| Time | Room A | Room B | Room C | Room D |
|---|---|---|---|---|
| | Environmental responses/Abiotic stresses (Temperature/Ion/Salt/Mineral) | Reproductive growth | Plant-microbe interaction (Immunity/Symbiosis) | Vegetative growth |
| 10:00 | 2aA05<br>AtPCS1-mediated phytochelatin synthesis alleviates phenylmercury toxicity in Arabidopsis<br>Shimpei Uraguchi[1], Yuka Sone[1], Naoko Ohkama-Ohtsu[2], Ryosuke Nakamura[1], Yasukazu Takanezawa[1], Stephan Clemens[3], Masako Kiyono[1] ([1]School of Pharmacy, Kitasato University, [2]Graduate School of Agricultural Science, Tokyo University of Agriculture and Technology, [3]Department of Plant Physiology, University of Bayreuth) | 2aB05<br>Inner floral organ development is perturbed in the rice miniature floral organs mutant.<br>Hitoshi Yoshida[1], Fabien Lombardo[1], Takashi Akiyama[1], Yutaka Sato[2] ([1]Inst Agrobiological Sci, NARO, [2]Natl Inst Genetics) | 2aC05 E<br>The exopolysaccharide receptor3 (*Epr3*) expression is regulated by the symbiotic process and control rhizobia infection in *Lotus japonicus*<br>Yasuyuki Kawaharada[1,2], Kelly Simon[2], Sandal Niels[2], James Euan[3], Radutoiu Simona[2], Stougaard Jens[2] ([1]Faculty of Agriculture, Iwate University, Japan, [2]Centre for Carbohydrate Recognition and Signalling. Department of Molecular Biology and Genetics, Aarhus University, [3]The James Hutton Institute, Invergowrie, UK) | 2aD05<br>Genetic analysis of miR319 and its target TCP transcription factors in leaf development of Arabidopsis thaliana<br>Tomotsugu Koyama (Suntory Foundation for Life Sciences) |
| 10:15 | 2aA06<br>Physiological roles of glutathione synthesis for cadmium (Cd) detoxification in rice<br>Shinichi Yamazaki, Aya Mukai, Yosuke Ueda, Kumiko Ochiai, Toru Matoh (Grad.Sch. Agri.,Univ.Kyoto) | 2aB06<br>Three *TOB1*-related *YABBY* genes regulate all reproductive meristems in rice<br>Wakana Tanaka[1], Taiyo Toriba[2], Hiro-Yuki Hirano[1] ([1]Department of Biological Sciences, Graduate School of Science, The University of Tokyo, [2]Graduate School of Life Sciences, Tohoku University) | 2aC06<br>Lotus-Rhizobium symbiosis is facilitated by the noble Nod factor receptor LYS1<br>Ei-ichi Murakami[1], Jeryl Cheng[1], Zoltan Bozsoki[1], Kira Gysel[1], Yasuyuki Kawaharada[1,2], Lene H Madsen[1], Jens Stougaard[1], Simona Radutoiu[1] ([1]Department of Molecular Biology and Genetics, Aarhus University, Denmark, [2]Fac Agric., IWATE Univ.) | 2aD06<br>ANGUSTIFOLIA contributes to morphogenesis in *Marchantia polymorpha*<br>Tomoyuki Furuya[1], Koro Hattori[1], Yoshitaka Kimori[2], Ryuichi Nishihama[3], Takayuki Kohchi[3], Hirokazu Tsukaya[1,4] ([1]Grad. Sch. Sci., Univ. Tokyo, [2]Cent. Novel Sci. Initiatives, NINS, [3]Grad. Sch. Biostudies, Kyoto Univ., [4]OIIB, NINS) |
| 10:30 | 2aA07<br>Rice HRZ ubiquitin ligases are crucial even under iron-excess conditions<br>May Sann Aung, Takanori Kobayashi, Hiroshi Masuda, Naoko K. Nishizawa (Res. Inst. Biores. Biotech., Ishikawa Pref. Univ.) | 2aB07<br>Mp*FGMYB* functions in feminization of reproductive organs in *Marchantia polymorpha*<br>Tetsuya Hisanaga[1], Keitaro Okahashi[2], Shohei Yamaoka[2], Ryuichi Nishihama[2], Takayuki Kohchi[2], Keiji Nakajima[1] ([1]Grad. Sch. Bio. Sci., NAIST, [2]Grad. Sch. Biostudies, Kyoto Univ) | 2aC07<br>Identification of the novel gene that is involved in inhibitory mechanism of root nodule symbiosis in response to nitrogen<br>Hanna Nishida[1,2,3], Yoshihiro Handa[2], Masayoshi Kawaguchi[1,2], Takuya Suzaki[3] ([1]Department of Basic Biology, SOKENDAI, [2]National Institute for Basic Biology, [3]Graduate School of Life and Environmental Sciences, University of Tsukuba) | 2aD07<br>The function of *OsWOX4* in vascular differentiation during leaf development in *Oryza sativa*<br>Yukiko Yasui, Hiro-Yuki Hirano (Grad. Sch. Sci., Univ. Tokyo) |
| 10:45 | 2aA08<br>VPE is an executor of aluminum-induced cell death in cultured tobacco cells<br>Koki Kariya, Takayuki Sasaki, Yoko Yamamoto (Institute of Plant Science and Resources, Okayama University) | 2aB08<br>Cell-cell communication in ovule primordia pattern formation<br>Nozomi Kawamoto, Ruediger Simon (Heinrich-Heine University Duesseldorf) | 2aC08<br>Identification of type III secretion system effectors of *Bradyrhizobium elkanii* USDA61 which involved in effector triggered immunity response in *Lotus japonicus*<br>Shohei Kusakabe[1], Takakazu Kaneko[2], Michiko Yasuda[3], Hiroki Miwa[3], Shin Okazaki[3], Shusei Sato[1] ([1]Grad. Sch. Life Sci., Tohoku Univ., [2]Faculty of Life Sci., Kyoto Sangyo Univ., [3]Grad. Sch. Agri., Tokyo Univ of Agriculture and Technology.) | 2aD08<br>A role of KNOX-BLH transcription factors in scattered vein patterning in grasses<br>Katsutoshi Tsuda[1,2], Maria-Jazmin Abraham-Juarez[3], Akiteru Maeno[1], Zhaobin Dong[3], Dale Aromdee[3], Robert Meeley[4], Toshihiko Shiroishi[1,2], Ken-ichi Nonomura[1,2], Sarah Hake[3] ([1]National Institute of Genetics, [2]Graduate University for Advanced Studies, [3]University of California at Berkeley, [4]Pioneer Hi-Bred International) |
| 11:00 | 2aA09<br>Phosphate Concentration Responsive Genes in Arabidopsis Root And Shoot<br>Taro Suzuki[1], Miwa Ohnishi[1], Satomi Kanno[1,2], Ayumi Tezuka[3], Ayumi Deguchi[3], Atsushi Nagano[3], Ryo Ishikawa[4], Kimitsune Ishizaki[1], Hidehiro Fukaki[1], Tetsuro Mimura[1] ([1]Grad. Sch. Sci., Kobe Univ., [2]CEA, France, [3]Agr., Ryukoku Univ., [4]Grad. Sch. Agr., Kobe Univ) | 2aB09<br>Analysis of genetic and environmental control of petal number in *Eustoma*.<br>Kyoko Kawakatsu, Ayuko Ushio, Mitsuru Douzono, Naoko Fukuta (National Agriculture and Food Research Organization) | 2aC09<br>*Lotus japonicus* transcription factors downstream of NIN essential for nodule development<br>Takashi Soyano[1,2], Makoto Hayashi[3], Masayoshi Kawaguchi[1,2] ([1]National institute for basic biology, [2]SOKENDAI, [3]RIKEN) | 2aD09<br>Four NAC transcription factor genes are involved in *rpl4d*-induced leaf abaxialization in the *as2* mutant of *Arabidopsis thaliana*<br>Gorou Horiguchi[1,2], Iwai Ohbayashi[3], Munetaka Sugiyama[3], Hirokazu Tsukaya[4,5] ([1]Dept. Life Sci., Coll. Sci., Rikkyo Univ., [2]Res. Cent. Life Sci., Coll. Sci., Rikkyo Univ., [3]Bot. Gard., Grad. Sch. Sci., Univ. Tokyo, [4]Grad. Sch. Sci., Univ. Tokyo, [5]Okazaki Inst. Integr. Biosci., NINS) |
| 11:15 | 2aA10<br>Functional analysis of zinc deficiency response defensin-like proteins in *Arabidopsis thaliana*<br>Yoichiro Fukao, Tomoya Oshita, Mami Kobayashi (Life Sci., Ritsumeikan Univ.) | 2aB10<br>Functional analysis of parthenocarpic factor *SNB1*<br>Hibari Hayashi[1], Miho Ikeda[1], Masaru Ohme-Takagi[1,2] ([1]Grad. Sch. Sci. Eng., Univ. Saitama, [2]Biopro. Res. Inst., AIST) | 2aC10<br>A calmodulin-binding transcriptional activator negatively controls nodule organogenesis<br>Akihiro Yamazaki[1,2], Akira Miyahara[2], Miwa Nagae[2], Yosuke Umehara[2], Makoto Hayashi[1,2] ([1]RIKEN, [2]NIAS) | 2aD10<br>AS1-AS2 regulates leaf adaxial-abaxial development and cell division in Arabidopsis thaliana<br>Ayami Nakagawa[1], Hiro Takahashi[2], Simon Vial-Pradel[1], Mari Morimoto[1], Shoko Kojima[1], Yasunori Machida[3], Chiyoko Machida[1] ([1]Graduate School of Bioscience and Biotechnology, Chubu University, [2]Graduate School of Horticulture, Chiba University, [3]Graduate School of Science, Nagoya University) |

| Room E | Room F | Room G | Room H | Room W | Room X | Room Y | Room Z | Time |
|---|---|---|---|---|---|---|---|---|
| Photoreceptors/ Photoresponses | Primary metabolism | Plant hormones/ Signaling molecules | Photosystem | Symposium S06 Increasing the strength of genome editing to elucidate molecular mechanisms in plants. (9:00–12:00) | Symposium S07 Frontier of Plant Epigenome Regulation in Environmental Stress Adaptation and Development (9:00–11:40) | Symposium S08 Molecular Basis for "Extended Phenotypes" in Plant/Animal-Microbe Interactions (9:00–12:00) | Symposium S09 New aspects in plant endomembrane research (9:00–12:00) | 10:00 |
| 2aE05<br>Analysis of fluence-dependent phosphorylation of Zmphot1 in phototropism of maize coleoptiles<br>Hiromi Suzuki[1], Chiharu Fujita[2], Taro Kimura[3], Tatsuya Sakai[3], Toshiaki Isobe[2], Masato Taoka[2], Takashi Okamoto[1], Tomokazu Koshiba[1] ([1]Dept. Biol. Sci., Tokyo Metropolitan Univ., [2]Dept. Chem., Tokyo Metropolitan Univ., [3]Grad. Sch. Sci. Tech., Univ. Niigata) | 2aF05<br>Metabolome analysis of oxalate synthesis in rice<br>Atsuko Miyagi[1], Takuya Saimaru[1], Nozomi Harigai[2], Risako Ozaki[2], Yutaka Oono[3], Yoshihiro Hase[3], Minoru Nagano[1], Toshiki Ishikawa[1], Masatoshi Yamaguchi[1], Maki Kawai-Yamada[1] ([1]Grad. Sch. Sci. Engneer., Saitama Univ., [2]Dept. Life Environ. Chem., Saitama Institute Tech., [3]QST Takasaki) | 2aG05<br>Analysis for physiological function and search for target protein of PPG as novel compound of promoter for plant growth<br>Shun Takeno[1,2], Shota Tanaka[1,2], Ayumi Yamagami[1], Setsuko Shimada[1], Minami Matsui[1], Yusuke Kakei[3], Yusuke Shimada[3], Misato Otani[4], Taku Demura[4], Tetsuo Kushiro[2], Tadao Asami[5,6], Hiroyuki Osada[1], Kazuo Shinozaki[1], Takeshi Nakano[1,6] ([1]RIKEN CSRS, [2]Dept. Agric. Chem., Meiji univ., [3]Yokohama City univ., [4]Nara Institute of Science and Technology, [5]Dept. Appl. Biol. Chem., univ. of Tokyo, [6]JST CREST) | 2aH05<br>Influence of molecular structural modifications of Cytb559 on Photosystem II function<br>Makoto Nakamura[1], Alain Boussac[2], Miwa Sugiura[1,3] ([1]Grad. Sch. Sci., Ehime Univ., [2]CEA Saclay, [3]PROS, Ehime Univ.) | | | | | |
| 2aE06<br>Involvement of different signaling components in distinct phototropic responses depending on the developmental stages of *Marchantia polymorpha*<br>Aino Komatsu[1], Noriyuki Suetsugu[1], Ryuichi Nishihama[1], Kimitsune Ishizaki[2], Takayuki Kohchi[1] ([1]Grad. Sch. Biostudies, Kyoto Univ., [2]Grad. Sch. Science, Kobe Univ.) | 2aF06<br>Biofuel production by "Milking" of *Synechococcus elongatus* PCC7942 cells<br>Akihiro Kato[1], Nobuyuki Takatani[1,3], Kazuhide Use[1], Kazutaka Ikeda[2,3], Shin-ichi Maeda[1,3], Tatsuo Omata[1,3] ([1]Grad. Sch. Bioagr. Sci., Nagoya Univ., [2]Lab, for Metabolomics, RIKEN center for Integr, Med. Sci, [3]JST CREST) | 2aG06<br>Involvement of Auxin in the Tip Growth of Sporophyte Generation in the Marine Red Seaweed *Pyropia yezoensis*.<br>Kensuke Taya[1], Ken-ichiro Hayashi[2], Koji Mikami[3] ([1]Graduate School of Fisheries Sciences, Hokkaido University, [2]Depertment Biochemistry, Okayama University of Science, [3]Faculty of Fisheries Sciences, Hokkaido University) | 2aH06<br>Enhanced recovery from photosystem I photoinhibition by the assembly factor.<br>Mai Watanabe[1,2], Masako Matsumura[1], Hiroaki Yoshino[1], Yukiko Okuda[1,2], Masahiko Ikeuchi[1,2] ([1]Graduate School of Arts and Sciences, University of Tokyo, [2]Japan Science and Technology Agency (JST), CREST) | | | | | 10:15 |
| 2aE07<br>The bHLH transcription factor ACE4 functions in a two-step antagonistic HLH/bHLH system to regulate light- and heat-inducible cell elongation<br>Miho Ikeda[1], Nobutaka Mitsuda[2], Masaru Ohme-Takagi[1,2] ([1]Graduate school of Science and Engineering, Saitama University, [2]Bioproduction Research Institute, National Institute of Advanced Industrial Science and Technology (AIST)) | 2aF07<br>Attempts to improve the productivity of free fatty acids in the engineered strain of *Synechococcus elongatus* PCC 7942 by expression of foreign genes encoding FFA transporters.<br>Taiyo Nakano[1], Koji Kojima[2,3], Ui Matsumoto[2], Akihiro Kato[1], Kazuhide Use[1], Nobuyuki Takatani[1,3], Makiko Aichi[2,3], Tatsuo Omata[1,3] ([1]Grad. Sch. Bioagr. Sci., Nagoya Univ., [2]Col. of Biotech., Chubu Univ., [3]JST CREST) | 2aG07<br>Dissecting functional diversification among auxin response factors in land plants<br>Hirotaka Kato, Sumanth Mutte, Dolf Weijers (Wageningen Univ.) | 2aH07<br>Possible involvement of HCF173 and LIL6 (OHP2) in the repair process of photosystem II in Arabidopsis<br>Kei Sakata[1], Yuki Akiyama[1], Atsushi Takabayashi[1], Fumiyoshi Myouga[2], Kazuo Shinozaki[2], Ayumi Tanaka[1], Ryouichi Tanaka[1] ([1]Institute of Low Temperature Science, Hokkaido University, [2]Gene Discovery Research Group, RIKEN Center for Sustainable Resource Science) | | | | | 10:30 |
| 2aE08<br>Molecular basis for the blue-light-directed twisting movement of Arabidopsis petioles<br>Yuta Otsuka[1], Hirokazu Tsukaya[1,2] ([1]Grad. Sch. Sci., Univ. Tokyo, [2]OIIB, NINS) | 2aF08<br>Job-sharing of glutamine synthetase isozymes in ammonium assimilation in Arabidopsis roots<br>Noriyuki Konishi, Keiki Ishiyama, Keiichi Kanno, Soichi Kojima (Grad. Sch. Agric. Tohoku Univ.) | 2aG08<br>A synthetic stimulant for seed germination in a parasitic plant Striga<br>Yuichiro Tsuchiya (Institute of Transformative Bio-Molecules) | 2aH08<br>Role of Arg-294 of D2 subunit on photosystem II activity in *Chlamydomonas reinhardtii*<br>Hiroshi Kuroda[1,4], Kazuyo Ueda[2], Mana Okamoto[3], Ryo Ninomiya[3], Chisato Hida[3], Yuichiro Takahashi[1,4] ([1]Research Institute for Interdisciplinary Science, Okayama University, [2]Graduate School of Natural Science and Technology, Okayama University, [3]Department of Biology, Faculty of Science, Okayama University, [4]JST-CREST) | | | | | 10:45 |
| 2aE09<br>Regulatory mechanisms of flagellar motility for photoresponses in volvocine green algae: from unicellular to multicellular organisms<br>Noriko Ueki, Ken-ichi Wakabayashi (Laboratory for Chemistry and Life Science, Tokyo Institute of Technology) | 2aF09<br>Comparative Analyses of Response to $CO_2$/N in *Arabidopsis thaliana* ecotypes<br>Atsushi Mabuchi[1], Keina Monda[1], Sho Takahashi[1], Yasuhito Sakuraba[2], Juntaro Negi[1], Shuichi Yanagisawa[2], Koh Iba[1] ([1]Dept. Biol., Fac. Sci., Kyushu Univ., [2]Biotechnology Research Center, Univ. Tokyo) | 2aG09<br>Evolutionary aspects of a gibberellin receptor, GID1<br>Hideki Yoshida[1], Eiichi Tanimoto[2], Ko Hirano[1], Sayaka Takehara[1], Sayaka Murakami[1], Mayuko Kawamura[1], Makoto Matsuoka[1], Miyako Ueguchi-Tanaka[1] ([1]BBC, Nagoya Univ., [2]Grad. Sch. of Natural Sci, Nagoya City Univ.) | 2aH09<br>Toward the Photosynthesis Mutagenesis: Acquired Heterotrophic Growth of *Thermosynechococcus*<br>Hiroaki Yoshino, Yukiko Okuda, Masahiko Ikeuchi (Grad. Sch. Art and Sci., Univ. Tokyo) | | | | | 11:00 |
| 2aE10<br>Blue/ Green Light-Regulated C-di-GMP Signaling of Cyanobacterial Cell Aggregation is a Population Density-Sensing System<br>Gen Enomoto[1], Yukiko Okuda[1,2], Masahiko Ikeuchi[1,2] ([1]Grad. Sch. Arts and Sci., Univ. Tokyo, [2]JST CREST) | 2aF10 Ⓔ<br>The Protein Kinase ACTPK1 Down-Modulates The High-Affinity Ammonium Uptake Of Rice Roots Under High Ammonium Supply<br>Marcel Pascal Beier, Tsuyoshi Yamanaka, Narumi Tomita, Masataka Ezaki, Toshihiko Hayakawa (Grad. Sch. Agr. Sci., Tohoku Univ.) | 2aG10 Ⓔ<br>YUCCA-mediated auxin biosynthesis and auxin transport are required for cut-induced lateral root formation in Arabidopsis<br>Dongyang Xu[1], Jiahang Miao[2], Emi Yumoto[3], Takao Yokota[3], Masashi Asahina[3], Masaaki Watahiki[2] ([1]Graduate School of Life Science, Hokkaido University, [2]Faculty of Science, Hokkaido University, [3]Department of Biosciences, Teikyo University) | 2aH10<br>Drought-induced ultrafast dissipation of excess excitation energy in cyanobacteria, algae, lichens, mosses and higher plants<br>Shigeru Itoh[1], Hisanori Yamakawa[2], Ikuko Iwasaki[3], Tomoki Sato[3], Urlich Heber[4] ([1]Nagoya Univ. Center Gene Res, [2]Nagoya Univ. BioAgri, [3]Akita Pref. Univ. Bioresorces, [4]Univ. Tubingen) | | | | | 11:15 |

Ⓔ=Presentation in English

# ● Day 2　2017 / 03 / 17 (Fri)　9:00–12:00

| Time | Room A | Room B | Room C | Room D |
|---|---|---|---|---|
| | Environmental responses/Abiotic stresses (Temperature/Ion/Salt/Mineral) | Reproductive growth | Plant-microbe interaction (Immunity/Symbiosis) | Vegetative growth |
| 11:30 | 2aA11<br>Characterization of small peptides associated with Zinc homeostasis in *Arabidopsis thaliana*<br>Yuji Yamaguchi[1], Kousuke Hanada[2], Izumi Mori[3], Yoichiro Fukao[1] ([1]Life Sci., Ritsumeikan Univ., [2]Front. Res. Acad. Young Res., Kyushu Inst. Tech., [3]Inst. Plant Sci. Res., Okayama Univ) | 2aB11<br>Comparison of Cell Proliferation Control between Leaves and Flower Organs in Arabidopsis<br>Ayaka Kinoshita[1], Hirokazu Tsukaya[1,2] ([1]Grad. Sch. Sci., Univ. Tokyo, [2]OIIB, NINS) | 2aC11<br>Transcriptional reprograming mediated by a chemical dialog between *Arabidopsis thaliana* and rhizobia, a conserved component of plant root microbiota<br>Ryohei Nakano[1,2], Nina Dombrowski[1], Ruben Garrido-Oter[1,2,3], Alice McHardy[3], Paul Schulze-Lefert[1,2] ([1]Dept. of Plant Microbe Interactions, Max Planck Institute for Plant Breeding Research, Germany, [2]Cluster of Excellence on Plant Science (CEPLAS), Germany, [3]Heinrich-Heine University Dusseldorf, Germany) | 2aD11<br>Functional analysis of *ALOG* family protein in *Marchantia polymorpha*<br>Satoshi Naramoto[1], Kimitsune Ishizaki[2], Masaki Shimamura[3], Sakiko Ishida[4], Hiroki Tokunaga[5], Akiko Yoshida[5], Ryuichi Nishihama[4], Takayuki Kohchi[4], Junko Kyozuka[1] ([1]Grad. Sch., Life Sci., Tohoku Univ., [2]Grad. Sch. Sci., Kobe Univ., [3]Grad. Sch. Sci., Hiroshima Univ., [4]Grad. Sch. Biostudies, Kyoto Univ., [5]RIKEN CSRC) |
| 11:45 | 2aA12 Ⓔ<br>Characterization of an AP2/ERF Transcription Factor That Regulate Responses to Phosphate Deficiency in Arabidopsis<br>Mayuko Nakamura, Chuan-Ming Yeh, Masaru Ohme-Takagi (Grad. Sch. Sci & Eng., Univ. Saitama) | 2aB12 Ⓔ<br>Characterization of a candidate sex-determining gene in *Asparagus officinalis*<br>Daisuke Tsugama, Kohei Matsuyama, Mayui Ide, Masato Hayashi, Kaien Fujino, Kiyoshi Masuda (Dept. Agr., Hokkaido Univ.) | 2aC12<br>NSP1 maintains gibberellin homeostasis required for the regulation of symbiosis gene expression and infection by arbuscular mycorrhizal fungi<br>Naoya Takeda[1,2], Miwa Nagae[1], Masayoshi Kawaguchi[1,2] ([1]NIBB, [2]SOKENDAI) | 2aD12<br>Distinct Roles of the ROS-producing Enzymes MpRbohA and MpRbohBs in Gametophyte Development of *Marchantia polymorpha*<br>Kenji Hashimoto[1], Takashi Kimura[1], Kai Kasugaya[1], Hidetaka Kaya[1], Nobutaka Kitahata[1,2], Kimitsune Ishizaki[3], Ryuichi Nishihama[4], Takayuki Kohchi[4], Kazuyuki Kuchitsu[1,2] ([1]Dept. of Appl. Biol. Sci., Tokyo Univ. of Science, [2]Imaging Frontier Center, Tokyo Univ. of Science, [3]Grad. Sch. of Sci., Kobe Univ., [4]Grad. Sch. of Biostudies, Kyoto Univ.) |

| Room E | Room F | Room G | Room H | Room W | Room X | Room Y | Room Z | Time |
|---|---|---|---|---|---|---|---|---|
| Photoreceptors/ Photoresponses | | Plant hormones/ Signaling molecules | Photosystem | Symposium S06 Increasing the strength of genome editing to elucidate molecular mechanisms in plants. (9:00–12:00) | Symposium S07 Frontier of Plant Epigenome Regulation in Environmental Stress Adaptation and Development (9:00–11:40) | Symposium S08 Molecular Basis for "Extended Phenotypes" in Plant/Animal-Microbe Interactions (9:00–12:00) | Symposium S09 New aspects in plant endomembrane research (9:00–12:00) | 11:30 |
| 2aE11<br>Reaction mechanism in Photozipper monitored by EPR<br>Kouhei Ozeki[1], Hiroki Nagashima[1], Osamu Hisatomi[2], Hiroyuki Mino[1] ([1]Grad. School of Sci., Nagoya university, [2]Grad School of Sci, Osaka University) | | 2aG11 E<br>Identification of a quinone receptor in *Arabidopsis*<br>Anuphon Laohavisit[1], Takanori Wakatake[1], Nobuaki Ishihama[1], Kosuke Dodo[1], Takamasa Suzuki[2], Mikiko Sodeoka[1], Ken Shirasu[1] ([1]RIKEN, Center for Sustainable Resource Science, Yokohama, Japan, [2]Chubu University, Department of Biological Chemistry, Bioscience and Technology, Kasugai, Japan) | 2aH11<br>Photoinhibition caused by red LED light in shade plant and its alleviation by supplementing light with far-red LED<br>Yuki Tanego[1], Shou Satoh[1], Kana Shirai[2], Chiaki Okamoto[2], Hatsumi Nozue[2], Masayuki Nozue[1,2,3] ([1]Grad. Sch. Textile Sci. & Tech., Shinshu Univ., [2]Reaserch Center for Advanced Plant Factory, Shinshu Univ., [3]Fac. Textile Sci. & Tech., Shinshu Univ.) | | | | | |
| 2aE12 E<br>Both of cryptochrome 1 and cryptochrome 2 are associated with the regulation of plant cold acclimation pathway under blue light condition<br>Hiroyuki Imai[1], Yukio Kawamura[1], Akira Nagatani[2], Matsuo Uemura[1] ([1]United Graduate School of Agricultural Sciences, Iwate University, [2]Graduate School of Science, Kyoto University) | | 2aG12 E<br>AC94377, a gibberellin mimic, is a selective GID1 agonist in *Arabidopsis*<br>Kai Jiang[1], Masato Otani[1], Hiroaki Shimotakahara[1], Jung-Min Yoon[1], Seung-Hyun Park[1], Tsuyoshi Ohta[1], Tomoko Miyaji[2], Takeshi Nakano[2], Hidemitsu Nakamura[1], Masatoshi Nakajima[1], Tadao Asami[1,3] ([1]Department of Agricultural and Life Sciences, The University of Tokyo, [2]Center for Sustainable Resource Science, RIKEN, [3]Department of Biochemistry, King Abdulaziz University) | 2aH12 E<br>Ycf3-Y3IP1 Complex Mediates Assembly of PSI Reaction Center in a Green Alga *Chlamydomonas reinhardtii*<br>Sreedhar Nellaepalli[1,2], Hiroshi Kuroda[1,2], Shin-Ichiro Ozawa[1,2], Yuichiro Takahashi[1,2] ([1]Research Institute for Interdisciplinary Science, Okayama University, [2]JST-CREST) | | | | | 11:45 |

E=Presentation in English

# ● Day 2　2017 / 03 / 17 (Fri)　13:30–16:00

| Time | Room A | Room B | Room C | Room D |
|---|---|---|---|---|
| | Environmental responses/Abiotic stresses (Ion/Salt/Mineral/Others) | New technology/Others | Plant-microbe interaction (Immunity) | Vegetative growth |
| 13:30 | 2pA01<br>Isolation and characterization of suppressor mutants of *ht1*-mediated defective stomatal $CO_2$ response in *Arabidopsis*<br>Sakiko Saito[1], Juntaro Negi[1], Keina Monda[1], Mikiko Kojima[2], Yumiko Takebayashi[2], Hitoshi Sakakibara[2], Koh Iba[1] ([1]Department of Biology, Faculty of Sciences, Kyushu University, [2]RIKEN CSRS) | 2pB01<br>CATchUP: a web database for speciotemporally expressed genes<br>Yukino Nakamura[1], Toru Kudo[1], Shin Terashima[1], Misa Saito[1], Eiji Nambara[2], Kentaro Yano[1] ([1]Sch. of Agri., Meiji Univ., [2]Sch. of Cell & Systems Biology., Toronto Univ.) | 2pC01 E<br>Abscisic acid and the jasmonate-mimicking bacterial phytotoxin coronatine inactivate MAP kinases through distinct and common members of the clade A protein phosphatases 2C<br>Akira Mine[1,2], Matthias Berens[1], Tatsuya Nobori[1], Shajahan Anver[1], Kaori Fukumoto[1], Dieter Becker[1], Kenichi Tsuda[1] ([1]Department of Plant Microbe Interactions, Max Planck Institute for Plant Breeding Research, [2]Center for Gene Research, Nagoya University) | 2pD01<br>Extension of oil biosynthesis during the mid-phase of seed development improves seed oil content in *Arabidopsis thaliana*<br>Masatake Kanai[1], Shoji Mano[1,2], Maki Kondo[1], Makoto Hayashi[3], Mikio Nishimura[1] ([1]NIBB, [2]SOKENDAI, [3]Nagahama Institute of Bio-Science and Technology) |
| 13:45 | 2pA02<br>Pharmacological analysis on stomatal response to $CO_2$, Darkness, and ABA using membrane traffic inhibitors<br>Sho Takahashi[1], Keina Monda[1], Takumi Higaki[2], Mimi Hashimoto-Sugimoto[3], Juntaro Negi[1], Seiichiro Hasezawa[2], Koh Iba[1] ([1]Department of Biology, Faculty of Science, Kyushu University, [2]Department of Integrated Biosciences, Graduate School of Frontier Sciences, The University of Tokyo, [3]Graduate School of Bioagricultural Sciences, Nagoya University) | 2pB02<br>Peptide library study to screen an efficient cell penetrating peptide for plant cells<br>Keiji Numata, Yoko Horii (RIKEN) | 2pC02 E<br>The bacterial virulence factor, coronatine, exploits jasmonate-mediated abscisic acid degradation in the guard cells for stomatal invasion in *Arabidopsis thaliana*<br>Kaori Fukumoto[1], Akira Mine[1,2], Kenichi Tsuda[1] ([1]Department of Plant Microbe Interactions, Max Planck Institute for Plant Breeding Research, [2]Center for Gene Research, Nagoya University) | 2pD02<br>Rice LC5 is essential for metals absorption via promotion of transporter genes for multiple metals in root<br>Nobuhiro Tanaka[1], Shimpei Uraguchi[2], Masataka Kajikawa[3], Akihiro Saito[4], Yoshihiro Ohmori[1], Toru Fujiwara[1] ([1]Graduate School of Agricultural and Life Sciences, The University of Tokyo, [2]Department of Public Health and Molecular Toxicology, School of Pharmacy, Kitasato University, [3]Graduate School of Biostudies, Kyoto University, [4]Department of Applied Biological Chemistry, Tokyo University of Agriculture) |
| 14:00 | 2pA03<br>Effects of structural modification of SLAC1 anion channel on the stomatal regulation in rice<br>Kanae Tajiri, Juntaro Negi, Koh Iba, Kensuke Kusumi (Laboratory of Plant Molecular Physiology, Department of Biology, Faculty of Sciences, Kyushu University) | 2pB03<br>Plant genome editing with CRISPR/Cpf1<br>Masafumi Mikami[1,2], Akira Endo[2], Hidetaka Kaya[2], Masaki Endo[2], Seiichi Toki[1,2,3] ([1]Gra. Sch. Nanobiol., Yokohama City Univ., [2]Inst. Agrobio. Sci., NARO, [3]Kihara. Inst. Biol. Res., Yokohama City Univ.) | 2pC03 E<br>*In planta* bacteral transcriptome reveals bacterial genes under the control of plant immunity<br>Tatsuya Nobori, Sajjad Khani, Kenichi Tsuda (Max-Planck Institute for Plant Breeding Research) | 2pD03<br>Plant deep imaging with TOMEI<br>Sachihiro Matsunaga[1], Junko Hasegawa[1], Noriyoshi Yagi[1], Natsuki Hasegawa[2], Hiroyuki Tsuji[2], Yuki Sakamoto[3] ([1]Dept. Applied Biol. Sci., Fac. Sci. Tech., Tokyo Univ. Sci., [2]Kihara Inst. Biol. Res., Yokohama City Univ., [3]Res. Inst. Sci. Tech., Tokyo Univ. Sci.) |
| 14:15 | 2pA04<br>Identification of a novel compound enhancing salinity stress tolerance<br>Kaori Sako[1,5], Takeshi Shimizu[2], Kenshirou Shimizu[2], Hiroyuki Hirano[3], Akihiro Matsui[1], Minoru Ueda[1,5], Maho Tanaka[1], Hiroyuki Osada[2,3], Motoaki Seki[1,4,5] ([1]Plant Genomic Network Research Team, RIKEN CSRS, [2]Chemical Biology Research Group, RIKEN CSRS, [3]Chemical Resource Development Research Unit, RIKEN CSRS, [4]Kihara Institute for Biological Research, Yokohama City Univ, [5]CREST, JST) | 2pB04<br>Rapid breeding of parthenocarpic tomato plants using CRISPR/Cas9<br>Risa Ueta[1], Chihiro Abe[1], Ryosuke Hashimoto[1], Takahito Watanabe[2], Shigeo S Sugano[2,3], Yuriko Osakabe[1], Keishi Osakabe[1] ([1]Fac. Biosci. Bioindust., Tokushima Univ., [2]CCAIC, Tokushima Univ., [3]PREST, Kyoto Univ.) | 2pC04 E<br>Plant immunity against Root-knot nematode<br>Yasuhiro Kadota[1], Yasunori Ichihashi[1,2], Taketo Uehara[3], Hideaki Iwahori[4], Noriko Maki[1], Takamasa Suzuki[5], Ken Shirasu[1] ([1]RIKEN, CSRS, [2]JST PRESTO, [3]National Agriculture and Food Research Organization, [4]Ryukoku Univ, [5]Chubu Univ) | 2pD04<br>Vegetative propagation in *Rorippa aquatica*: Understanding plant regeneration using non-model species<br>Rumi Amano[1], Hokuto Nakayama[2], Tomoaki Sakamoto[1], Risa Momoi[1], Shizuka Gunji[3], Ali Ferjani[3], Seisuke Kimura[1] ([1]Facul. Life Sci., Kyoto Sangyo Univ., [2]Department of Plant Biology, University of California, [3]Depart. Biol., Tokyo Gakugei Univ.) |
| 14:30 | 2pA05<br>Distinct roles in salinity stress response between RPD3-like histone deacetylases (HDACs) in Arabidopsis<br>Minoru Ueda[1,2], Akihiro Matsui[1], Maho Tanaka[1], Tomoe Nakamura[1,3], Kaori Sako[1,2], Taku Sasaki[1,2], Jong-Myong Kim[1], Hiroaki Shimada[3], Akihiro Ito[4], Norikazu Nishino[4], Minoru Yoshida[4], Motoaki Seki[1,2] ([1]RIKEN CSRS Plant Genomic Network Research Team, [2]JST CREST, [3]Tokyo Univ. Sci., Dept. Biol. Sci. Tech, [4]RIKEN CSRS Chemical Genomics Research Group) | 2pB05<br>Development of rapid and accurate correlative light & electron microscopy to detect GFP-labeled organelles in resin using field-emission electron microscope<br>Kiminori Toyooka, Naeko Narikawa, Mayuko Sato (RIKEN CSRS) | 2pC05<br>Root-knot Nematodes (RNK) Hijack Auxin-signaling Modules to Activate Procambial Stem Cells<br>Reira Suzuki, Tomomi Sagara, Yasuka Yamaguchi, Ngan Bui Thi, Chika Ejima, Satoru Nakagami, Morihiro Ota, Chie Shimaoka, Takashi Ishida, Shinichiro Sawa (Kumamoto univ. Sawa lab) | 2pD05<br>Screening of Arabidopsis putative ptdins3-phosphate-binding proteins involved in autophagosome formation<br>Yuki Fujiki[1,2], Kojiro Urano[2], Natsumi Kanazawa[2], Takashi Nagashima[2], Ikuo Nishida[1,2] ([1]Grad. Sch. of Sci. & Eng., Saitama Univ., [2]Fac. Sci., Saitama Univ.) |

| Room E | Room F | Room G | Room H | Room W | Room X | Room Y | Room Z | Time |
|---|---|---|---|---|---|---|---|---|
| Flowering/Clock | Primary metabolism | Plant hormones/ Signaling molecules | Photosystem/Electron transport/$CO_2$ assimilation | | Symposium S10 Plant cell wall as information processing system in development, immune, nutrition, paraticism and movement of plants (13:30–16:00) | Symposium S11 Signaling pathways and growth regulation in response to environmental signals (13:00–16:00) | | 13:30 |
| 2pE01 Ⓔ<br>Circadian and environmental signalling to chloroplasts by sigma factors<br>Antony Dodd (University of Bristol, U.K.) | 2pF01<br>Molecular mechanism of flowering regulation induced by nitrogen starvation<br>Shoki Aoyama[1], Yoshie Morita[2], Shogo Ito[3], Mitsutomo Abe[4], Takato Imaizumi[5], Takeo Sato[2], Junji Yamaguchi[2] ([1]Grad. Sch. Life Sci., Hokkaido Univ., [2]Grad. Sch. Sci., Hokkaido Univ., [3]Grad Sch Sci., Kyoto Univ., [4]Grad. Sch. Sci., Univ. Tokyo, [5]Dept. Biol., Univ. Washington) | 2pG01<br>To identify the novel hormone like peptides in *Arabidopsis thaliana*.<br>Ryohei Torii[1], You-wang Kim[1], Tomoyuki Takeda[1], Mieko Higuchi[2], Iwai Obayashi[1], Masanori Okamoto[3], Minami Shimizu[2], Takeshi Yoshizumi[2], Kentaro Nakaminami[2], Ranko Nishi[2], Kazuo Shinozaki[2], Motoaki Seki[2], Minami Matui[2], Kousuke Hanada[1,2] ([1]Kyushu Institute of Technology Computer Science and Systems Engineering Interdisciplinary Informatics Hanada Labolatory, [2]RIKEN, [3]Arid Land Research Center, Tottori University) | 2pH01<br>Effects of stacked bioreactors using cyanobacteria and purple bacteria for improved light energy utilization in photobiological hydrogen production<br>Takeshi Sato[1], Yuki Uchida[2], Kenji Nagashima[3], Hajime Masukawa[4], Masaharu Kitashima[2], Hidehiro Sakurai[3], Kazuhito Inoue[2] ([1]Grad. Sch. Sci., Univ. Kanagawa, [2]Sci., Univ. Kanagawa, [3]Res. Inst. Photobiol. H2 Prod., Univ. Kanagawa, [4]OCARINA, Osaka City Univ.) | | | | | |
| 2pE02<br>An evolutionary scenario of the loss of the oscillatory ability of the clock protein KaiB in oceanic cyanobacteria *Prochlorococcus*<br>Tokitaka Oyama, Shuhei Hirota, Hiroyuki Asano, Noriaki Kitagawa (Dept. Bot., Grad. Sch. Sci., Kyoto Univ.) | 2pF02<br>Functional analysis of nuclear-localized BTB protein involved carbon and nitrogen signaling in Arabidopsis.<br>Haruna Maeda[1], Shuichi Yanagisawa[2], Takeo Sato[1], Junji Yamaguchi[1] ([1]Fac. Sci. and Grad. Sch. Life Sci., Hokkaido Univ., [2]Biotechnology Research Center, Univ. Tokyo) | 2pG02<br>Shoot-to-root Mobile Polypeptides Control Systemic Nitrogen Acquisition<br>Yuri Ohkubo, Mina Tanaka, Ryo Tabata, Mari Ogawa-Ohnishi, Yoshikatsu Matsubayashi (Grad. Sch. Sci., Nagoya Univ.) | 2pH02<br>Heterologous expression and *in vivo* maturation of green algal [FeFe] hydrogenase in the strictly anaerobic photosynthetic bacterium *Chlorobaculum tepidum*<br>Yusuke Ikeda[1], Risa Mutoh[2], Yusei Hazama[3], Hirozo Oh-oka[3], Genji Kurisu[4], Kazuki Terauchi[1], Chihiro Azai[1] ([1]Grad. Sch. Life Sci., Ritsumeikan Univ., [2]Fac. Sci., Fukuoka Univ., [3]Grad. Sch. Sci., Osaka Univ., [4]IPR, Osaka Univ.) | | | | | 13:45 |
| 2pE03<br>Negative correlation between critical day-lengths and circadian periods in Japanese short-day duckweeds<br>Tomoaki Muranaka[1], Takao Kondo[1], Tokitaka Oyama[2] ([1]Div. of Biol. Sci., Grad. Sch. of Sci., Nagoya University, [2]Dept. of Bot., Grad. Sch. of Sci., Kyoto University) | 2pF03<br>Physiological analysis of ACR11<br>Atsushi Takabayashi[1], Akihiro Niwata[1], Ayana Nagamori[2], Ayumi Tanaka[1] ([1]ILTS, Hokkaido Univ., [2]Fac. Agri, Hokkaido Univ.) | 2pG03<br>Analysis of brassinosteroid signaling mutant *bil7-1D*<br>Tomoko Miyaji[1,3], Takanari Ichikawa[1], Minami Matsui[1], Shozo Fujioka[1], Kazuo Shinozaki[1], Tadao Asami[2,3], Takeshi Nakano[1,3] ([1]RIKEN, CSRS, [2]Dept. Appl. Biol. Chem., Univ. of Tokyo, [3]JST-CREST) | 2pH03<br>Contribution of NDH-dependent and PGR5-PGRL1-dependent cyclic electron transport around photosystem I to NADP-ME type $C_4$ photosynthesis in *Flaveria bidentis*<br>Kana Kobayashi[1], Naoya Nakamura[2], Kaoru Morikawa[2], Akiho Yokota[2], Yukimi Y. Taniguchi[1], Yuri N. Munekage[1] ([1]Grad. Sch. Sci. & Tec., Univ. Kwansei Gakuin, [2]Grad. Sch. Biol. Schi., NAIST) | | | | | 14:00 |
| 2pE04<br>The CYCLING DOF FACTOR homolog represses gamentangiophore development in the liverwort *Marchantia polymorpha*<br>Yoshihiro Yoshitake, Shohei Yamaoka, Keitaro Nagayama, Akane Kubota, Ryuichi Nishihama, Takayuki Kohchi (Grad. Sch. Biostudies, Kyoto Univ.) | 2pF04<br>The reduced tillering in a rice mutant lacking cytosolic glutamine synthetase1;2 resulted from the reduced availability of glutamine rather than asparagine<br>Miwa Ohashi, Keiki Ishiyama, Soichi Kojima, Noriyuki Konishi, Mitsue Miyao, Tomoyuki Yamaya, Toshihiko Hayakawa (Grad. Sch. Agri., Univ. Tohoku) | 2pG04<br>Screening and analysis of brassinosteroid signaling mutants *bpg4*<br>Momo Marugami[1,2], Susumu Abe[1,2], Ayumi Yamagami[1,4], Takanari Ichikawa[1], Minami Matsui[1], Tetsuo Kushiro[2], Kazuo Shinozaki[1], Tadao Asami[3,4], Takeshi Nakano[1,4] ([1]CSRS RIKEN, [2]Dep. Agric. Chem., Univ. Meiji, [3]Dep. Biol. Sci., Univ. Tokyo, [4]CREST JST) | 2pH04<br>Photoprotection Of PSI By Far-red Light Against The Fluctuating Light-Induced Photoinhibition In Land Plants<br>Masaru Kono[1], Wataru Yamori[1], Yoshihiro Suzuki[2], Ichiro Terashima[1] ([1]Sch. Sci. Univ. Tokyo, [2]Sch. Sci. Kanagawa Univ.) | | | | | 14:15 |
| 2pE05<br>TCP4 regulate the transcription of *CONSTANS* in *GIGANTEA*-dependent manner in the photoperiodic flowering pathway<br>Akane Kubota[1], Shogo Ito[1,2], Jae Sung Shim[1], Richard S. Johnson[3], Yong Hun Song[1,4], Ghislain Breton[5], Tomotsugu Koyama[6], Masaru Ohme-Takagi[7], Jose L. Pruneda-Paz[5], Steve A. Kay[8], Michael J. MacCoss[3], Takato Imaizumi[1] ([1]Dept. of Bio., Univ. of Washington, [2]Dept. of Botany, Grad. Sch. Sci., Kyoto Univ., [3]Dept. of Genome Sci., Univ. of Washington, [4]Dept. of Life Sciences., Ajou Univ., [5]Cell and Developmental Bio., UCSD, [6]Integrative Biomolecular Function, Suntory Foundation for Life Sci., [7]Grad. Sch. Sci. and Eng. Saitama Univ., [8]Sch. Med., Univ. of Southern California) | 2pF05<br>Genome-wide tiling-array analysis for targets of CmMYB1, a key transcription factor for nitrogen assimilation metabolism in *C. merolae*<br>Keiko Taki[1,2], Toshiyuki Sone[1], Nobuko Sumiya[2,3,4], Takashi Kanzaki[1], Shin-ya Miyagishima[2,3], Sousuke Imamura[1,2], Kan Tanaka[1,2] ([1]Tokyo Tech, LCLS, [2]JST, CREST, [3]NIG, Cell Genet., [4]Keio Univ., Bio.) | 2pG05<br>Arabidopsis thaliana B3 MAPKKK's role in ABA response mechanism<br>Shohei Katsuta[1], Ryoko Otake[1], Masashi Saruhashi[2], Taishi Umezawa[3], Daisuke Takezawa[2], Teruaki Taji[1], Takahisa Hayashi[1], Yoichi Sakata[1] ([1]Department of Bioscience, Tokyo University of Agriculture, [2]Graduate School of Science and Engineering, Saitama University, [3]Graduate School of Bio-Applications and Systems Engineering, Tokyo University of Agriculture and Technology) | 2pH05<br>Light- and $CO_2$-regulated localization of calcium-binding protein CAS in the green alga *Chlamydomonas reinhardtii*<br>Lianyong Wang, Takashi Yamano, Yuki Niikawa, Chihana Toyokawa, Hideya Fukuzawa (Grad. Sch. Biostudies, Kyoto University) | | | | | 14:30 |

Ⓔ=Presentation in English

# ● Day 2　2017 / 03 / 17 (Fri)　13:30–16:00

| Time | Room A | Room B | Room C | Room D |
|---|---|---|---|---|
| | Environmental responses/Abiotic stresses (Ion/Salt/Mineral/Others) | New technology/Others | Plant-microbe interaction (Immunity) | Vegetative growth |
| 14:45 | 2pA06 E<br>AtPep3 peptide functions in plant salinity stress tolerance<br>Kentaro Nakaminami[1], Kousuke Hanada[1,2], Yube Yamaguchi[3], Motoaki Seki[1,4,5] ([1]RIKEN CSRS, [2]Front. Res. Acad. Young Res., Kyushu Inst. Tech., [3]Life Environ. Sci., Osaka Pref. Univ., [4]Kihara Inst. Biol. Res., Yokohama City Univ., [5]CREST, JST) | 2pB06<br>Development of new 3D image data presentation method of plant tissue using 3D printer<br>Kimi Ogasawara[1,2], Yoko Mizuta[3,4], Tetsuya Higashiyama[1,2,4] ([1]JST, ERATO, Higashiyama Live-Holonics Project, [2]Graduate School of Science, Nagoya University, [3]JST, PREST, [4]Institute of Transformative Bio-Molecules (WPI-ITbM), Nagoya University) | 2pC06<br>Involvement of CLE peptide signaling in nematode infection process.<br>Satoru Nakagami[1], Chika Ejima[1], Ngan Bui Thi[1], Hiroshi Sato[1], Ryo Tabata[2], Takashi Ishida[1], Shinichiro Sawa[1] ([1]Graduate School of Science and Technology, Kumamoto University, Kumamoto, [2]Graduate School of Bioagricultural Sciences and School of Agricultural Sciences, Nagoya University, Nagoya) | 2pD06<br>The Vacuolar Sorting Receptors VSR3 and VSR4 Are Involved in Leaf Senescence in *Arabidopsis thaliana*<br>Tadashi Kunieda[1,2], Tomoo Shimada[2], Ikuko Hara-Nishimura[1,2] ([1]Fac. Sci. Eng., Konan Univ., [2]Grad. Sch. Sci., Kyoto Univ.) |
| 15:00 | 2pA07 E<br>Identification and characterization of transcription factors related to nitrogen stress responses in plant<br>Ji Min Shin[1], Chuan-Ming Yeh[1,2], Nobutaka Mitsuda[1,2], Masaru Ohme-Takagi[1,2] ([1]Grad. Sch. Sci. & Eng., Saitama Univ., [2]Bioprod. Res. Inst., Natl. Inst. Adv. Ind. Sci. & Technol. (AIST)) | 2pB07<br>Development of high-throughput screening system of transcription factor to interact with particular DNA and/or protein by employing yeast and/or plant cell<br>Nobutaka Mitsuda[1], Shingo Sakamoto[1], Fumie Tobe[1], Yuko Takiguchi[1], Yoko Horii[2], Toru Ishizuka[1,4], Hiroaki Ichikawa[3], Minami Matsui[2], Masaru Ohme-Takagi[4] ([1]Bioproduction Research Institute, National Institute of Advanced Industrial Science and Technology, [2]Center for Sustainable Resource Science, RIKEN, [3]Institute of Agrobiological Sciences, National Agriculture and Food Research Organization, [4]Graduate School of Science and Technology, Saitama University) | 2pC07<br>Function of *CLE41/44* in the establishment of inter-specific plant connection<br>Kohki Shimizu, Akitaka Hozumi, Koh Aoki (Grad. Sch. Life Environ. Sci., Osaka Pref Univ.) | 2pD07<br>Live-imaging Of Cytoskeleton Dynamics During Zygote Polarization<br>Yusuke Kimata[1], Takumi Higaki[2], Tomokazu Kawashima[3,4], Daisuke Kurihara[1,5], Yoshikatsu Sato[6], Tomomi Yamada[1,6], Seiichiro Hasezawa[2], Frederic Berger[3], Tetsuya Higashiyama[1,5,6], Minako Ueda[1,6] ([1]Grad. Sch. Sci., Univ. Nagoya, [2]Grad. Sch. Fron. Sci., Univ. Tokyo, [3]Gregor Mendel Institute , Austrian Acad. Sci., [4]Department of Plant and Soil Sci., Univ. Kentucky, [5]JST, ERATO, Higashiyama live-Holonics Project, Univ. Nagoya, [6]WPI, Institute of Transformative Bio-Molecules, Univ. Nagoya) |
| 15:15 | 2pA08 E<br>Contribution of an Ammonium Transporter to $Na^+/K^+$ Homeostasis in Marine Red Alga *Pyropia yezoensis*<br>Eri Adams[1], Koji Mikami[2], Ryoung Shin[1] ([1]RIKEN Center for Sustainable Resource Science, [2]Faculty of Fisheries Sciences, Hokkaido University) | 2pB08<br>Whole transcriptome sequencing in Japanese pear (*Pyrus pyrifolia*)<br>Masaaki Kobayashi[1], Yukino Nakamura[1], Chikako Nishitani[2], Koji Yokoyama[1], Hajime Ohyanagi[1,3], Toshiya Yamamoto[2], Kentaro Yano[1] ([1]Sch. of Agri., Meiji Univ., [2]Inst. Fruit Tree and Tea Sci., NARO (NIFTS), [3]Comput. Biosci. RC. (CBRC), King Abdullah Univ. Sci. Tech. (KAUST)) | 2pC08<br>Symplasmic continuity between *Orobanche aegyptiaca* and the host<br>Minako Ekawa, Koh Aoki (Grad. Sch. Life Environ. Sci., Osaka Pref. Univ.) | 2pD08<br>How plant zygote polarizes?<br>Minako Ueda[1,2], Yusuke Kimata[1], Daisuke Kurihara[1,3], Tomomi Yamada[1], Tetsuya Higashiyama[1,2,3] ([1]Graduate School of Science, Nagoya University, Japan, [2]ITbM, Nagoya University, Japan, [3]JST-ERATO, Nagoya University, Japan) |
| 15:30 | 2pA09 E<br>Ethanol enhances high-salinity stresssalt tolerance in Arabidopsis thaliana<br>Huong Mai Nguyen[1,2], Kaori Sako[1,3], Akihiro Matsui[1], Maho Tanaka[1], Golam Mostofa Mohammad[4], Chien Van Ha[4], Lam Son Phan Tran[4], Motoaki Seki[1,2,3] ([1]Plant Genomic Network Research Team, RIKEN CSRS, [2]Yokohama City Univ., Kihara, [3]CREST, JST, [4]Signaling Pathway Research Unit, RIKEN CSRS) | | 2pC09<br>Identification of plant volatile to attract American serpentine leafminer and analyses of its function.<br>Hiroshi Abe[1], Yudai Kobayashi[2], Shigemi Seo[3], Soichi Kugimiya[4], Reiko Motohashi[2], Takeshi Shimoda[5], Masatomo Kobayashi[1] ([1]RIKEN BRC, [2]Shizuoka Univerity, [3]NIAS, [4]NIAES, [5]NARC) | |
| 15:45 | 2pA10 E<br>Investigation of salt-induced damages in lentil (Lens culinaris): Study on osmotic, ionic and oxidative stress<br>Md. Shahadat Hossain[1], Mazhar Ul Alam[1], Anisur Rahman[2], Mirza Hasanuzzaman[2], Kamrun Nahar[2], Jubayer-Al Mahmud[1,2], Masayuki Fujita[1] ([1]Lab. plant stress response, Grad. Sch. Agriculture, Kagawa Univ., Japan, [2]Faculty of Agriculture, Sher-e-Bangla Agricultural Univ, Bangladesh) | | 2pC10<br>RNA-Seq analyses on interaction between plants and viruses under natural conditions<br>Mari Kamitani[1], Atsushi Nagano[2], Mie N. Honjo[1], Hiroshi Kudoh[1] ([1]Center for Ecological Research, Kyoto university, [2]Faculty of Agriculture, Ryukoku university) | |

| Room E | Room F | Room G | Room H | Room W | Room X | Room Y | Room Z | Time |
|---|---|---|---|---|---|---|---|---|
| Flowering/Clock | Primary metabolism | Plant hormones/ Signaling molecules | Photosystem/Electron transport/$CO_2$ assimilation | | Symposium S10 Plant cell wall as information processing system in development, immune, nutrition, paraticism and movement of plants (13:30–16:00) | Symposium S11 Signaling pathways and growth regulation in response to environmental signals (13:00–16:00) | | 14:45 |
| 2pE06<br>The Role of NaKR1 in the Regulation of Flowering<br>Katsuya Negishi, Motomu Endo, Takashi Araki (Grad. Sch. Biostudies, Kyoto Univ.) | 2pF06<br>Visualization of nitrogen distribution in a filament of cyanobacterium Anabaena sp. PCC 7120 by soft X-ray microscopy<br>Takahiro Teramoto[1], Chihiro Azai[2], Kazuki Terauchi[2], Masashi Yoshimura[3], Toshiaki Ohta[3] ([1]Ritsumeikan University,College of Science & Engineering,Department of Electrical & Electronic Engineering, [2]Ritsumeikan University,College of life Science,Department of Bioinformatics, [3]Ritsumeikan University,SR center) | 2pG06<br>Functional analysis of cytokinin response regulators in *Marchantia polymorpha*<br>Shiori Sugamata Aki[1], Tatsuya Mikami[1], Ryuichi Nishihama[2], Takayuki Kohchi[2], Masaaki Umeda[1,3] ([1]Graduate School of Biological Sciences, Nara Institute of Science and Technology, [2]Graduate School of Biostudies, Kyoto University, [3]JST, CREST) | 2pH06<br>A protein disulfide reductase in chloroplast is functional in both dark and light in rice.<br>Jun Tominaga[1], Haruka Mizutani[1], Daisuke Horikawa[1], Yasutoshi Nakahara[1], Tsuneaki Takami[2], Wataru Sakamoto[2], Atsushi Sakamoto[1], Hiroshi Shimada[1] ([1]Department of Mathematical and Life Sciences, Graduate School of Science, Hiroshima University, [2]Institute of Plant Science and Resources, Okayama University, Kurashiki, Okayama) | | | | | |
| 2pE07<br>Dynamics of florigen-complex during floral transition<br>Mitsutomo Abe, Shingo Kosaka, Mio Shibuta, Kenji Nagata, Hidetaka Kaya (The University of Tokyo) | 2pF07<br>Improved nitrogen assimilation by *Anabaena* sp. PCC 7120 HetR variants with increased heterocyst frequency<br>Hajime Masukawa[1,3], Toru Hisabori[2,3] ([1]OCARINA, Osaka City Univ., [2]Lab. Chem. Life Sci., Tokyo Tech., [3]CREST, JST) | 2pG07<br>Functional Analysis of an Ethylene Signaling Factor EIN3 in Physcomitrella patens<br>Eri Yamada[1], Akihisa Shinozawa[1], Yuki Yasumura[2], Nicholas P. Harberd[2], Teruaki Taji[1], Takahisa Hayashi[1], Daisuke Takezawa[3], Yoichi Sakata[1] ([1]Department of bioscience, Tokyo University of Agriculture, [2]Department of Plant Sciences, University of Oxford, [3]Saitama University) | 2pH07<br>The Analysis of the Binding Sites of PSI-LHCI in the Chloroplast NDH Complex<br>Yoshinobu Kato, Toshiharu Shikanai (Grad. Sch. Sci., Kyoto Univ.) | | | | | 15:00 |
| 2pE08<br>A Myb-protein, FE, plays a crucial role in *FT* activation.<br>Mio Shibuta, Ayako Watanabe-Taneda, Mitsutomo Abe (Graduate School of Science, University of Tokyo) | 2pF08<br>Infection mechanism of Colletotrichum higginsianum through phosphoinostides<br>Takashi L. Shimada[1], Yoshitaka Takano[2], Shigeyuki Betsuyaku[3], Akihiko Nakano[4,5], Takashi Ueda[6,7,8] ([1]Chiba Univ., [2]Kyoto Univ., [3]Tsukuba Univ., [4]Univ. Tokyo, [5]RIKEN, [6]NIBB, [7]JST PRESTO, [8]SOKENDAI) | 2pG08<br>Effects of phytohormone treatments on the growth of Arabidopsis exhibiting impaired chloroplast biogenesis<br>Yoshihiro Hirosawa[1], Akari Tada[2], Yasuko Ito-Inaba[2,3], Takakazu Matsuura[4], Izumi Mori[4], Takehito Inaba[2] ([1]Grad. Sch. Agr., Univ. Miyazaki, [2]Fac. Agr., Univ. Miyazaki, [3]TT Org., Univ. Miyazaki, [4]IPSR, Okayama Univ.) | 2pH08<br>Determining the Rate-limiting Step for Photo-reduction of Chloroplast Enzymes<br>Keisuke Yoshida[1,2], Toru Hisabori[1,2] ([1]Lab. Chem. Life Sci., Tokyo Tech., [2]JST, CREST) | | | | | 15:15 |
| 2pE09<br>The delayed flowering time in alloplasmic wheat lines is caused by the alteration of epigenetic regulation in the flowering promoter gene *VRN1*<br>Koji Murai[1], Kosuke Umekita[1], Kiyotaka Nagaki[2], Minoru Murata[2] ([1]Dep. Biosci., Fukui Pref. Univ., [2]IPSR, Okayama Univ.) | 2pF09<br>Expression analysis of an ABC transporter in *Cyanobacterium aponinum* PCC 10605<br>Yukari Ninomiya, Eiji Suzuki (Grad Sch Bioresour Sci, Akita Pref Univ) | | | | | | | 15:30 |
| 2pE10<br>Isolation and expression studies of a motor cell-specific promoter of the model legume Lotus japonicus<br>You Ookuro[1], Masahiro Takahara[1], Jun Nishiya[1], Minoru Ueda[2], Nobuyuki Kanzawa[1] ([1]Sophia Univ, Sci. Tech, [2]Grad. Sch. Sci., Univ. Tohoku) | 2pF10 Ⓔ<br>Effect of Low-Temperature Stress on the Glycogen Accumulation in Cyanobacteria<br>Yui Funawatari, Eiji Suzuki (Fac Bioresour Sci, Akita Pref Univ) | | | | | | | 15:45 |

Ⓔ=Presentation in English

# ● Day 3　2017 / 03 / 18 (Sat)　9:00–12:15

| Time | Room A | Room B | Room C | Room D |
|---|---|---|---|---|
| | Environmental responses/Abiotic stresses (Oxidative stress/Redox regulation/Others) | Membrane trafficking/Protein modification and degradation | Cell cycle/Cell division | Secondary metabolism |
| 9:00 | 3aA01<br>bHLH11, a bHLH subgroup IVb bHLH member, fuctions as transcriptional repressor in Fe up-take and negatively regulates iron homeostasis in *Arabidopsis*.<br>Daisuke Mori[1], Masahiro Noshi[2], Noriaki Tanabe[2], Masahiro Tamoi[1,2], Masaru Ohme-Takagi[3,4], Shigeru Shigeoka[1,2] ([1]Dept. Adv. Biosci., Grad. Sch. Agr., Kindai Univ., [2]Dept. Adv. Biosci., Fac. Agr., Kindai Univ., [3]AIST, [4]IEST, Saitama Univ.) | 3aB01<br>Structures and dynamics of TGN (*trans*-Golgi network) domains in Arabidopsis<br>Yutaro Shimizu[1], Yamato Komatsu[1], Yoko Ito[2], Junpei Takagi[1], Kazuo Ebine[3,4], Takashi Ueda[3,4,5], Kazuo Kurokawa[2], Tomohiro Uemura[1], Akihiko Nakano[1,2] ([1]Grad. Sch. Sci., Univ. Tokyo, [2]RAP, RIKEN, [3]Div. Cellular Dynamics, NIBB, [4]Dept. Basic Biol., SOKENDAI, [5]PRESTO, JST) | 3aC01<br>Control of the cell cycle in two distinct cell files of the root epidermis<br>Teruki Sugiyama[1], Hirotomo Takatsuka[1], Masaaki Umeda[1,2] ([1]Nara Institute of Science and Technology, JAPAN, [2]JST, CREST, JAPAN) | 3aD01 E<br>A novel gene in $C_{28}$ isoprenoid biosynthesis in *Solanaceae*<br>Eva Knoch[1], Satoko Sugawara[1], Tetsuya Mori[1], Christian Peter Poulsen[2], Atsushi Fukushima[1], Naoyuki Umemoto[1], Kazuki Saito[1] ([1]RIKEN Center for Sustainable Resource Science, Yokohama, [2]Carlsberg Research Laboratory, Copenhagen, Denmark) |
| 9:15 | 3aA02<br>Light- and chloroplast-dependent regulation of Vitamin C Defective 2 gene expression in Arabidopsis<br>Saki Shiroma[1], Natsumi Ito[1], Takahisa Ogawa[1], Kazuya Yoshimura[2], Yoshihiro Sawa[1], Takahiro Ishikawa[1], Takanori Maruta[1] ([1]Dept. Life Sci. and Biotech., Fac. Life and Environ. Sci., Shimane Univ., [2]Dept. Food Nutr. Sci., Coll. Biotechnol., Chubu Univ.) | 3aB02<br>Analyses of the membrane trafficking system during spermatogenesis in Marchantia polymorpha<br>Naoki Minamino[1,2], Takehiko Kanazawa[1,2], Takuya Norizuki[1,2], Ryuichi Nishihama[3], Katsuyuki Yamato[4], Kimitsune Ishizaki[5], Takayuki Kohchi[3], Akihiko Nakano[1,6], Takashi Ueda[2,7,8] ([1]Grad. Sch. Sci., Univ. Tokyo, [2]Natl. Inst. Basic Biol, [3]Grad. Sch. Biostudies, Kyoto Univ, [4]Fac. Biol.-Orient. Sci. Tech., Kindai Univ, [5]Grad. Sch. Sci., Univ. Kobe, [6]RIKEN RAP, [7]PRESTO, JST, [8]SOKENDAI) | 3aC02<br>Omics analysis during mitosis phase using single cell.<br>Emiko Okubo-Kurihara[1], Mika Hiramoto[1,2], Yukio Kurihara[1], Yuko Makita[1], Mika Kawashima[1], Takumi Higaki[4], Seiichiro Hasezawa[4], Hiroaki Shimada[2], Minami Matsui[1] ([1]RIKEN CSRS, [2]Tokyo University of Science, [3]RIKEN QBiC, [4]University of Tokyo) | 3aD02<br>Terpenoid indole alkaloid metabolism in *Catharanthus roseus* idioblast and laticifer cells<br>Kotaro Yamamoto[1], Miwa Ohnishi[1], Katsutoshi Takahashi[2], Hajime Mizuno[3], Kimitsune Ishizaki[1], Mami Yamazaki[4], Hidehiro Fukaki[1], Tsutomu Masujima[5], Tetsuro Mimura[1] ([1]Department of Biology, Graduate School of Science, Kobe University, [2]Biotechnology Research Institute for Drug Discovery, AIST, [3]School of Pharmaceutical Sciences, University of Shizuoka, [4]Graduate School of Pharmaceutical Science, Chiba University, [5]Quantitative Biology Center, RIKEN) |
| 9:30 | 3aA03<br>Genetic screen for key players in the photorespiratory $H_2O_2$-induced cell death in Arabidopsis<br>Takanori Maruta[1,2], Aleksandra Lewandowska[1], Jordi Denecker[1], Pavel Kerchev[1], Cezary Waszczak[1], Frank Van Breusegem[1] ([1]Plant Systems Biology, VIB/Ghent Univ., [2]Dept. Life Sci. and Biotech., Fac. Life and Environ. Sci., Shimane Univ.) | 3aB03<br>Autophagy in Marchantia polymorpha<br>Takuya Norizuki[1,2], Takehiko Kanazawa[1,2], Naoki Minamino[1,2], Ryuichi Nishihama[3], Takayuki Kohchi[3], Akihiko Nakano[1,4], Takashi Ueda[2,5,6] ([1]Grad. Sch. Sci., Univ. Tokyo, [2]Natl. Inst. Basic Biol., [3]Grad. Sch. Biostudies, Kyoto Univ., [4]RIKEN RAP, [5]PRESTO, JST, [6]Dept. Basic Biol., SOKENDAI) | 3aC03<br>Condensin complex is essential for the regulation of centromere distribution during interphase in plants.<br>Tomoe Yamashiita[1], Takuya Sakamoto[1], Yuki Sakamoto[1], Akihiro Matsui[2], Jong-myong Kim[2], Motoaki Seki[2], Sachihiro Matsunaga[1] ([1]Dept. Applied Bio. Sci., Fac. Sci. Tech., Tokyo Univ. Sci., [2]RIKEN CSRS, Yokohama) | 3aD03<br>Functional Characterization of CYP716 Family P450 in Tomato<br>Shuhei Yasumoto[1], Hikaru Seki[1], Yuko Shimizu[1], Ery Odette Fukushima[1], Keishi Osakabe[2], Yuriko Osakabe[2], Toshiya Muranaka[1] ([1]Grad. Sch. Eng., Osaka Univ., [2]Faculty Biosci. Bioindust., Tokushima Univ.) |
| 9:45 | 3aA04<br>Ascorbate recycling in Arabidopsis mutants lacking dehydroascorbate reductase activity<br>Yusuke Terai, Takahisa Ogawa, Yoshihiro Sawa, Takahiro Ishikawa, Takanori Maruta (Dept. Life Sci. and Biotech., Fac. Life and Environ. Sci., Shimane Univ.) | 3aB04<br>HOPS/CORVET complexes in vacuolar trafficking pathways of *A. thaliana*<br>Kodai Takemoto[1,2], Kazuo Ebine[2,6], Tatsuaki Goh[3], Jun Ito[3], Akihiko Nakano[1,4], Takashi Ueda[2,5,6] ([1]Grad. Sch. of Sci., Univ. Tokyo, [2]NIBB, [3]Grad. Sch. Bio. Sci., NAIST, [4]RIKEN., RAP, [5]PRESTO., JST, [6]Dept. Basic Biol., Grad. Univ. Advanced Studies) | 3aC04<br>Live visualization of endogenous DNA sequences with genome editing techniques in plants<br>Satoru Fujimoto, Sachihiro Matsunaga (Department of Applied Biological Science, Faculty of Science and Technology, Tokyo University of Science) | 3aD04<br>Molecular Cloning and Characterization of Triterpene Oxidases in *Platycodon grandiflorus*<br>Keita Tamura[1], Yuga Teranishi[1], Hideyuki Suzuki[2], Noriaki Kawano[3], Kayo Yoshimatsu[3], Kazuki Saito[4], Nobuo Kawahara[3], Toshiya Muranaka[1], Hikaru Seki[1] ([1]Grad. Sch. Eng., Osaka Univ., [2]Dept. R&D, Kazusa DNA Res. Inst., [3]Natl. Inst. Biomed. Innov., Health and Nutrition, [4]Grad. Sch. Pharm. Sci., Chiba Univ.) |
| 10:00 | 3aA05<br>Physiological role of hydrogen peroxide for photosynthetic electron transport regulation<br>Takaya Okayasu, Takahisa Ogawa, Yoshihiro Sawa, Takahiro Ishikawa, Takanori Maruta (Dept. Life Sci. and Biotech., Fac. Life and Environ. Sci., Shimane Univ.) | 3aB05<br>Redirection of a trafficking pathway leads to acquisition of plant-specific subcellular structures<br>Takehiko Kanazawa[1,2], Hatsune Morinaka[1], Kazuo Ebine[2,5], Takuya Norizuki[1,2], Naoki Minamino[1,2], Ryuichi Nishihama[3], Takayuki Kohchi[3], Akihiko Nakano[1,4], Takashi Ueda[2,5,6] ([1]Grad. Sch. Sci., Univ. Tokyo, [2]Natl. Inst. Basic Biol., [3]Grad. Sch. Biostudies, Kyoto Univ., [4]RIKEN RAP, [5]Dept. Basic Biol., Grad. Univ. Advanced Studies, [6]PRESTO, JST) | 3aC05<br>Mutations in 26S proteasome cause tuberous root formation under the stress condition in *Arabidopsis thaliana*<br>Takuya Sakamoto[1], Kaoru Sugimoto[1], Yuki Katsuyama[1], Akihiro Matsui[2], Motoaki Seki[2], Sachihiro Matsunaga[1] ([1]Fac. Sci. Tech., Tokyo Univ. Sci., [2]CSRS, RIKEN) | 3aD05<br>Exploration of the Transcription Factors Regulating Triterpenoid Biosynthesis in Licorice<br>Koki Yoshida[1], Keita Tamura[1], Hikaru Seki[1], Yasuko Hiraoka[2], Keiichi Mochida[3], Hideyuki Suzuki[4], Mareshige Kojoma[5], Nobutaka Mitsuda[6], Kazuki Saito[3], Toshiya Muranaka[1] ([1]Grad. Sch. Eng., Osaka Univ., [2]Kihara Inst. Biol. Res., Yokohama City Univ., [3]RIKEN CSRS, [4]Dept. R&D, Kazusa DNA Res. Inst., [5]Fac. Pharm. Sci., Health Sci. Univ. Hokkaido, [6]Bioproduction Res. Inst., AIST) |
| 10:15 | 3aA06<br>Protein phosphorylation cascade in transcriptional regulation for homeostasis of photosystems under different wavelengths of light<br>Tokiya Fukazawa[1], Masanori Shimizu[2], Hirokazu Kobayashi[1] ([1]Lab. Plant Mol. Improv., Grad. Sch. Integr. Pharm. Nutr. Sci., Univ. Shizuoka, [2]Sch. Health Promot. Sci., Tokoha Univ.) | 3aB06<br>Analysis of mechanism for developmental regulation by *BEN2/VPS45* gene in *Arabidopsis thaliana*<br>Yuki Matsuura, Tatsuo Kakimoto, Hirokazu Tanaka (Grad. Sch. Science., Osaka Univ.) | 3aC06<br>Possible checkpoint mechanism connecting defective RNA metabolism to negative regulation of the cell cycle in *Arabidopsis*<br>Megumi Takase[1], Takamasa Suzuki[2], Misato Ohtani[3], Masaki Ito[1,4] ([1]Agr., Nagoya Univ., [2]Coll. Biosci. Biotech., Chubu Univ., [3]Grad. Sch. Biol. Sci., NAIST, [4]JST, CREST) | 3aD06<br>Study on the blue coloration of *Hydrangea macrophylla* by chemical analysis of suprarmolecular blue complex<br>Takaaki Ito[1], Tomomi Yamada[1], Kin-ichi Oyama[2], Kumi Yoshida[1] ([1]Graduate School of Information Science, Nagoya University, [2]Chemical Instrumentation Facility, Research Center for Materials Science, Nagoya University) |

| Room E | Room F | Room G | Room H | Room W | Room X | Room Y | Room Z | Time |
|---|---|---|---|---|---|---|---|---|
| Transcriptional and post-transcriptional regulation | Primary metabolism | | | | Symposium S12 Dynamic Vacuoles in Plants 2017 (9:00–12:00) | Symposium S13 Venturing into the world of single cell analysis (9:00–11:40) | | |
| 3aE01 Ⓔ<br>Novel stress-inducible antisense RNAs of protein-coding loci are synthesized by RDRs in *Arabidopsis*<br>Akihiro Matsui[1], Kei Iida[2], Maho Tanaka[1], Ri-ichiroh Manabe[3], Katsushi Yamaguchi[4], Kayoko Mizuhashi[1], Jong-Myong Kim[1], Shuji Shigenobu[4], Kazuo Shinozaki[5], Motoaki Seki[1,6,7] ([1]Plant Genomic Network Research Team, RIKEN, CSRS, [2]Graduate School of Medicine, Kyoto Univ., [3]RIKEN Center for Life Science Technologies, [4]NIBB Core Research Facilities, National Institute for Basic Biology, [5]Gene Discovery Research Group, RIKEN, CSRS, [6]Kihara Institute for Biological Research, Yokohama City Univ., [7]Core Research for Evolutional Science and Technology, JST) | 3aF01<br>*Sugar-dependent 1* (*SDP1*) orthologue plays a key role in wax ester degradation under aerobic condition in *Euglena gracilis*<br>Kaeko Kurihara[1,2], Takahisa Ogawa[1,2], Takanori Maruta[1,2], Yoshihiro Sawa[1], Takahiro Ishikawa[1,2] ([1]Dept. Life Sci. Biotechnol., Fac. Life Environ. Sci., Shimane Univ., [2]JST/CREST) | | | | | | | 9:00 |
| 3aE02 Ⓔ<br>Functional analysis of oligouridylate binding protein 1b in abscisic acid response<br>Thi Cam Chau Nguyen[1,2], Kentaro Nakaminami[1], Akihiro Matsui[1], Shunsuke Watanabe[1], Yuri Kanno[1], Mitsunori Seo[1], Motoaki Seki[1,2,3] ([1]RIKEN CSRS, [2]Kihara Inst. Biol. Res., Yokohama City Univ., [3]CREST, JST) | 3aF02<br>Deacylation of membrane lipids is activated by low temperature in *Synechococcus elongatus* PCC 7942<br>Nobuyuki Takatani[1,4], Miyuki Matsuura[1], Kazutaka Ikeda[2,4], Sumie Keta[3,4], Makiko Aichi[3,4], Tatsuo Omata[1,4] ([1]Grad. Sch. Bioagr. Sci. Nagoya Univ., [2]RIKEN IMS, [3]Col. of Biosci. and Biotech. Chubu Univ., [4]JST CREST) | | | | | | | 9:15 |
| 3aE03 Ⓔ<br>Functional analyses of CFIm protein complex in *Arabidopsis thaliana*<br>Xiaojuan Zhang[1], Ryo Kuroda[1], Tsuyoshi Furumoto[2], Takashi Aoyama[1], Tomohiko Tsuge[1] ([1]Institute for Chemical Research, Kyoto University, [2]Faculty of Agriculture, Ryukoku University) | 3aF03<br>Characterization of Heterotrophic Growth in the Red Alga *Cyanidioschyzon merolae*<br>Takashi Moriyama[1,2], Naoki Sato[1,2] ([1]Grad. Sch. Arts Sci., Univ. Tokyo, [2]JST, CREST) | | | | | | | 9:30 |
| 3aE04<br>Functional analyses of alternatively spliced forms of *COP/DET/FUS* during photomorphogenesis<br>Ryo Kuroda[1], Xiaojuan Zhang[1], Tomonao Matsushita[2], Takashi Aoyama[1], Tomohiko Tsuge[1] ([1]Institute for Chemical Research, Kyoto University, [2]Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University) | 3aF04<br>Metabolic Analysis of Lipids and Starch in *Chlamydomonas debaryana* NIES-2212<br>Masakazu Toyoshima[1,2], Naoki Sato[1,2] ([1]Grad. Sch. Arts and Sci., Univ. Tokyo, [2]JST-CREST) | | | | | | | 9:45 |
| 3aE05<br>Ribosomal exit tunnel regulates gene expression via ribosome stalling upon translation in Arabidopsis<br>Seidai Takamatsu[1], Yuka Miura[2], Yubun Ohashi[3], Noriyuki Onoue[1], Yui Yamashita[1,3], Hitoshi Onouchi[3], Satoshi Naito[1,3] ([1]Grad. Schl. Life Sci., Hokkaido Univ., [2]Fac. Agr., Hokkaido Univ., [3]Grad. Schl. Agr., Hokkaido Univ.) | 3aF05<br>Modification of fatty acids bound to the *sn*-2 position of phosphatidylglycerol affects growth and photosynthesis in *Synechocystis* sp. PCC 6803<br>Kaichiro Endo[1], Koichi Kobayashi[1], Masato Abe[2], Hideto Miyoshi[2], Hajime Wada[1,3] ([1]Graduate School of Arts and Sciences, The University of Tokyo, [2]Graduate School of Agriculture, Kyoto University, [3]JST, CREST) | | | | | | | 10:00 |
| 3aE06<br>Identification of novel upstream open reading frames that cause ribosome stalling in Arabidopsis thaliana.<br>Noriya Hayashi[1], Shun Sasaki[2], Zhihang Feng[3], Toru Fujiwara[3], Satoshi Naito[1,4], Hitoshi Onouchi[4] ([1]Grad. Schl. of Life Science, Hokkaido Univ., [2]Schl. of Agrc., Hokkaido Univ., [3]Grad. Schl. of Agrc. and Life Science, The Univ. of Tokyo., [4]Grad. Schl. of Agrc., Hokkaido Univ.) | 3aF06<br>Functional Analysis of DGAT from *Pseudochoricystis ellipsoidea*<br>Kaori Oyama, Izumi Matsuwaki, Misako Kato (Grad. Sch. Life Sci., Univ. Ochanomizu) | | | | | | | 10:15 |

Ⓔ=Presentation in English

# ● Day 3　2017 / 03 / 18 (Sat)　9:00–12:15

| Time | Room A | Room B | Room C | Room D |
|---|---|---|---|---|
| | Environmental responses/Abiotic stresses (Oxidative stress/Redox regulation/Others) | Membrane trafficking/Protein modification and degradation | Cell cycle/Cell division | Secondary metabolism |
| 10:30 | 3aA07<br>G6PDH regulation via redox state of OpcA in the nitrogen fixing cyanobacterium *Anabaena* sp. PCC 7120<br>Shoko Mihara[1], Hitomi Wakao[1], Kazunori Sugiura[1,2], Akiyoshi Higo[1,2], Keisuke Yoshida[1,2], Toru Hisabori[1,2] ([1]Lab. Chem. Life Sci. Tokyo Tech., [2]JST, CREST) | 3aB07<br>Identification and biochemical analysis of a novel RING E3 ubiquitin ligase for Gibberellin receptor<br>Keiichirou Nemoto, Tatsuya Sawasaki (PROS, Ehime Univ.) | 3aC07<br>Evidence for a role of NEK6 in the coordination of organ growth by mechanical signal in Arabidopsis<br>Shogo Takatani[1], Stephane Verger[2], Takashi Okamoto[1], Takashi Hashimoto[3], Taku Takahashi[1], Olivier Hamant[2], Hiroyasu Motose[1] ([1]Grad. Sch. Nat. Sci. & Tech., Okayama Univ., [2]Plant Reproduction and Development Laboratory, ENS Lyon, [3]Grad. Sci. Biol. Sci., NAIST) | 3aD07<br>cDNA identification and functional characterization of a phenylpropanoid-specific prenyltransferase from *Artemisia capillaris*<br>Tomoya Takemura[1], Ryosuke Munakata[1], Akifumi Sugiyama[1], Hideyuki Suzuki[2], Hikaru Seki[3], Toshiya Muranaka[3], Takao Yamaura[4], Kazufumi Yazaki[1] ([1]RISH, Kyoto Univ., [2]Dept. R&D, Kazusa DNA Res. Inst., [3]Grad. Sch. Eng., Osaka Univ., [4]Nippon Shinyaku Co., Ltd.) |
| 10:45 | 3aA08<br>Functional characterization of β-carotene hydroxylase genes in microalga *Euglena gracilis*<br>Shun Tamaki[1], Shota Kato[2], Tomoko Shinomura[2], Takahiro Ishikawa[3], Hiromasa Imaishi[1] ([1]Biosig. Res. Ctr., Kobe Univ., [2]Dept. Biosci., Sch. Sci. Eng., Teikyo Univ., [3]Dept. Appl. Biosci. and Biotech., Fac. Life Environ. Sci., Shimane Univ.) | 3aB08 E<br>PHOSPHORYLATION CONTROLS EXOCYST SUBUNIT EXO70B2 FUNCTIONS ON DISTINCT CELLULAR PATHWAYS<br>Ooi-kock Teh[1,2], Chil-Woo Lee[3], Petra Majovsky[2], Giulia Furlan[2], Xiyuan Jiang[2], Marco Zietz[2], Gerd Hause[4], Lennart Eschen-Lippold[2], Wolfgang Hoehenwarter[2], Tomomichi Fujita[1], Justin Lee[2], Marco Trujillo[2] ([1]Hokkaido Univ, Faculty of Sci, Dept Biological Sciences, Sapporo, Japan, [2]Leibniz Institute of Plant Biochemistry, Halle (Saale), Germany, [3]Korea Honey Bee Disease Institute, Gyeonggi-do, Korea, [4]Biozentrum, Martin-Luther Univ Halle-Wittenberg, Halle (Saale), Germany) | 3aC08<br>Regulation of cell proliferation in rice that grows without endoreplication<br>Mika Tsugane[1], Yuki Sakamoto[2], Junko Hasegawa[2], Sachihiro Matsunaga[2], Masaki Ito[1] ([1]Grad. Sch. Bioagr. Sci., Nagoya Univ., [2]Sci. Tech., Tokyo Univ. Sci.) | 3aD08<br>Metabolomics-based evaluation of soybean seedlings germinating under controlled environment and the effect of fungal inoculation<br>Yuji Sawada[1], Kouji Ochiai[2], Muneo Sato[1], Hiromichi Akashi[1], Akane Sakata[1], Masami Hirai[1] ([1]RIKEN CSRS, [2]Vegetable Pharm.) |
| 11:00 | 3aA09<br>Mechanism of pathway selection in DNA damage responses in plants<br>Kaoru Yoshiyama (Okamoto), Kaori Kaminoyama, Tomoaki Sakamoto, Seisuke Kimura (Kyoto Sangyo Univ., Life Science) | 3aB09 E<br>The Arabidopsis SnRk1 (AKIN10) phosphorylates and down-regulates AtHMGR1 activity<br>Jekson Robertlee[1], Keiko Kobayashi[1,2], Masashi Suzuki[3], Toshiya Muranaka[1] ([1]Grad. Sch. Eng., Osaka Univ., [2]Fac. Sci., Japan Women's Univ., [3]Grad. Sch. Agri. Life Sci., Univ. of Tokyo) | | |
| 11:15 | 3aA10<br>Identification and characterization of an interactor of AtNUDX6 involved in regulation of the NPR1-dependent SA signaling pathway.<br>Shoya Nakagawa[1], Takahisa Ogawa[3], Noriaki Tanabe[2], Masahiro Tamoi[1,2], Kazuya Yoshimura[4], Shigeru Shigeoka[1,2] ([1]Department of Advanced Bioscience, Graduate School of Agriculture, Kindai University, [2]Department of Advanced Bioscience, Faculty of Agriculture, Kindai University, [3]Department of Life Science and Biotechnology, Faculty of Life and Environmental Science, Shimane University, [4]Department of Food and Nutritional Science, College of Bioscience and Biotechnology, Chubu University) | | | |
| 11:30 | 3aA11 E<br>Effects of Nitrogen nutrition on photosynthetic redox homeostasis in rice plants exposed to Elevated $CO_2$ condition<br>Marouane Baslam[1,2], Kentaro Kaneko[2], Kazusato Oikawa[1], Takuya Inomata[1], Iker Aranjuelo[3], Toshiaki Mitsui[1,2] ([1]Niigata University Department of Applied Biological Chemistry, Faculty of Agriculture, Niigata (Japan), [2]Niigata University Graduate School of Science and Technology, Niigata (Japan), [3]CSIC, UPNA, Gobierno de Navarra, Instituto de Agrobiotecnologia, Pamplona (Spain)) | | | |
| 11:45 | 3aA12 E<br>Deep characterization of N-starvation in Arthrospira sp. PCC 8005<br>Frederic Deschoenmaeker (Biosciences for Research, Mons) | | | |
| 12:00 | 3aA13 E<br>Impact of environment in international space station on plant growth and developments<br>Takuya Furuichi (Dept. of Human Life Sciences, Nagoya University of Economics) | | | |

| Room E | Room F | Room G | Room H | Room W | Room X | Room Y | Room Z | Time |
|---|---|---|---|---|---|---|---|---|
| Transcriptional and post-transcriptional regulation | Primary metabolism | | | | Symposium S12 Dynamic Vacuoles in Plants 2017 (9:00–12:00) | Symposium S13 Venturing into the world of single cell analysis (9:00–11:40) | | |
| 3aE07<br>RNA-binding protein DUS16 and DCL3 work cooperatively as component of a microprocessor complex in the pri-miRNA processing in *Chlamydomonas reinhardtii*<br>Tomohito Yamasaki[1], Masayuki Onishi[2], Eun-Jeong Kim[3], Heriberto Cerutti[3], Takeshi Ohama[4] ([1]Div. of Photobiol., NIBB, [2]Dept. of Genetics, Stanford Univ. Sch. of Med., [3]PSI, Univ. of Nebraska-Lincoln, [4]Dept. of Env. Sys. Eng., KUT) | 3aF07<br>Starch, Lipid and Carotenoid Production and A High-Light Response in *Chlorella* and The Other Trebouxiophyceae<br>Tsuyoshi Takeshita[1,2], Shuhei Ota[1,2], Tomokazu Yamazaki[1,2], Shigeyuki Kawano[1,2] ([1]Grad. Sch. Front. Sci., Univ. Tokyo, [2]JST START) | | | | | | | 10:30 |
| 3aE08<br>Identification of the Arabidopsis CCR4-NOT complex components including RNA binding proteins which might be involved in the target recognition<br>Toshihiro Arae[1], Yuya Suzuki[1], Yukako Chiba[1,2,3] ([1]Grad. Schl. Life Sci., Hokkaido Univ., [2]Fac. Sci., Hokkaido Univ., [3]JST PRESTO) | 3aF08<br>Identification of new lipid class induced by phosphorus depletion<br>Yozo Okazaki[1,2], Go Hirai[1], Hiroyuki Koshino[1], Qianqian Wang[1], Kouji Takano[1], Masaki Morita[1], Mikiko Sodeoka[1], Kazuki Saito[1,3] ([1]RIKEN Center for Sustainable Resource Science, [2]Department of Life and Environmental System Science, Yokohama City University, [3]Graduate School of Pharmaceutical Sciences, Chiba University) | | | | | | | 10:45 |
| 3aE09<br>MpAHG2 and MpAGS1, regulators for poly(A) status of mitochondrial mRNA in Marchantia polymorpha<br>Mai Kanazawa[1], Yoko Ikeda[2], Takakazu Matsuura[2], Ryuichi Nishihama[3], Shohei Yamaoka[3], Katsuyuki Yamato[4], Takayuki Kohchi[3], Takashi Hirayama[1,2] ([1]Grad. Sch. Env. & Life. Sci, Okayama Univ., [2]Inst. Plant Sci. & Res, Okayama Univ., [3]Grad. Sch. Biostudies, Kyoto Univ., [4]Fac. Biol.-Oriented Sci. Tech, Kinki Univ.) | 3aF09<br>Lipid Synthesis from [$^{14}$C]Bicarbonate in Isolated Plastids in the Red Alga *Cyanidioschyzon merolae*<br>Natsumi Mori[1,2], Takashi Moriyama[1,2], Masakazu Toyoshima[1,2], Naoki Sato[1,2] ([1]Univ. of Tokyo, Grad. School Arts and Sciences, [2]JST, CREST) | | | | | | | 11:00 |
| 3aE10<br>Integration-dependent *de novo* activated transcription promotes transgenes to acquire transcriptional competence in the plant genome<br>Takayuki Hata[1], Soichirou Satoh[1], Naoto Takada[1], Tomohiro Uchikoba[2], Makoto Tachikawa[1], Mitsuhiro Matsuo[1], Sergei Kushnir[3], Junichi Obokata[1] ([1]Graduate School of Life and Env. Sci., Kyoto Prefectural Univ., [2]Faculty of Life and Env. Sci., Kyoto Prefectural Univ., [3]Vale Institute of Technology Sustainable Development) | 3aF10<br>TAG synthesis and lysolipid of *Chlamydomonas reinhardtii* under nutritional deficient condition<br>Masako Iwai[1,2], Yui Ohshima[1], Mie Shimojima[1], Hiroyuki Ohta[1,2,3] ([1]School of Life Science Technology, Tokyo Institute of Technology, [2]JST CREST, [3]Earth-Life Science Institute, Tokyo Institute of Technology) | | | | | | | 11:15 |
| 3aE11<br>Crosstalk between RNA processing and transcription for control of plant cell potency<br>Misato Ohtani[1,2], Mai Mukai[1], Ryosuke Sano[1], Taku Demura[1,2] ([1]Grad. Sch. Biol. Sci., NAIST, [2]RIKEN CSRS) | | | | | | | | 11:30 |
| | | | | | | | | 11:45 |
| | | | | | | | | 12:00 |

Ⓔ=Presentation in English