

Sun., March 14, 9:30–12:30 Room X

Toward understanding emergence of order in Plant-Microbe HolobiontLanguage: Japanese

Organizers: Kei Hiruma (The University of Tokyo)
 Shunsuke Miyashima (NAIST)
 Akira Mine (Ritsumeikan University)
 Hironori Fujita (National Institute for Basic Biology)

09:30 Opening remarks
 Kei Hiruma

• Chairperson: Kei Hiruma

09:35 **S01-1** Stomatal movements in the assembly of plant-bacteria holobiont
Akira Mine^{1,2}, Kaori Fukumoto³, Ryohei Thomas Nakano³, Yoshinori Kanaoka¹, Atsushi Takeda¹, Kenichi Tsuda^{3,4} (¹Col. Life Sci., Ritsumeikan Univ., ²JST PRESTO, ³MPIPZ, ⁴HZAU)

10:00 **S01-2** Root cap controls the dynamic of soil microbes by integrating its cell morphogenesis and defense system
Shunsuke Miyashima^{1,2}, Keiji Nakajima¹ (¹NAIST, ²JST PRESTO)

10:25 **S01-3** Evolutionary Dynamics of Nitrogen Fixation in the Legume–Rhizobia Symbiosis
Hironori Fujita^{1,2,3} (¹Astrobiology Center, ²National Institute for Basic Biology, ³SOKENDAI)

10:50 Break

• Chairperson: Akira Mine

10:55 **S01-4** RNA-Seq reveals virus diversity and the plant-virus interaction in the fields
Mari Kamitani^{1,2} (¹Faculty of Agriculture, Ryukoku University, ²CER, Kyoto university)

11:25 **S01-5** Genetic and molecular bases of insect gut symbiosis
Yoshitomo Kikuchi (AIST, BPRI)

• Chairperson: Shunsuke Miyashima

11:55 **S01-6** A role of fungal-bacterial synthetic community for plant growth under nutrient limiting conditions
Kei Hiruma^{1,2,3} (¹Grad. Sch. Sci. Tech., NAIST, ²Grad. Sch. Arts and Sci., Univ. Tokyo, ³JST, Presto)

12:20 Closing remarks
 Akira Mine

Sun., March 14, 9:30–12:25 Room Y

The universality and diversity of stem cell regulation revealed from the study of basal plants

Language: Japanese

Organizers: Kimitsune Ishizaki (Kobe University)
Tomomichi Fujita (Hokkaido University)

09:30 Opening remarks

• Chairperson: Kimitsune Ishizaki

09:35 **S02-1** Stem cells in the basal land plants
Rumiko Kofuji (Biological Sci. and Tech., Kanazawa Univ.)

10:00 **S02-2** Asymmetric cell division in protonemal apical stem cells in the moss, *Physcomitrium patens*
Tomomichi Fujita¹, Ooi Kock Teh², Alisa Vyacheslavova³ (¹Fac. Sci., Hokkaido Univ., ²IAHE, Hokkaido Univ., ³Grad. Sch. Life Sci., Hokkaido Univ.)

10:25 **S02-3** Discovery of the cellular reprogramming triggered by DNA damage
Yosuke Tamada^{1,2,3}, Nan Gu³ (¹Sch. Eng., Utsunomiya Univ., ²CORE, Utsunomiya Univ., ³REAL, Utsunomiya Univ.)

10:50 Break

• Chairperson: Tomomichi Fujita

11:00 **S02-4** Cutting untangled a knot between stem cell formation and auxin in *Marchantia polymorpha*
Sakiko Ishida, Hidemasa Suzuki, Takayuki Kohchi, Ryuichi Nishihama (Grad. Sch. Biostudies, Kyoto Univ.)

11:25 **S02-5** Exploring the common mechanisms for stem cell propagation from vegetative reproduction of *Marchantia polymorpha*
Hirota Kato¹, Yukiko Yasui^{1,2}, Kimitsune Ishizaki¹ (¹Grad. Sch. Sci., Kobe Univ., ²Grad. Sch. Biostudies, Kyoto Univ.)

11:50 **S02-6** Diversity of RAM organization and cell division dynamics in the extant lycophytes
Rieko Fujinami¹, Toshihiro Yamada² (¹Dept. Sci., Fac. Educ., Kyoto Univ. Educ., ²Bot. Gard., Fac. Sci., Osaka City Univ.)

12:15 General Discussion

Scientific Research on Innovative Areas, a MEXT Grant-in-Aid Project for FY2017-2021
“Principles of pluripotent stem cells underlying plant vitality”

Day 1, PM

Symposium 03

Sun., March 14, 14:00–17:00 Room X

Frontiers of Plant Genome Editing to shape the future with new technologies

Language: Japanese

Organizer: Yuriko Osakabe (Fac. of Biosci. & Bioindust., Tokushima Univ.)

● Chairperson: Yuriko Osakabe

14:00		Opening remarks
14:05	S03-1	Development of genome engineering using a novel genome editing tool, TiD <u>Osakabe Keishi</u> (Grad. School of Tech., Indust. & Social Sci., Tokushima Univ.)
14:35	S03-2	FnCas12a-mediated targeted mutagenesis using crRNA with altered target length in rice. <u>Masaki Endo</u> ¹ , Katsuya Negishi ¹ , Masafumi Mikami ¹ , Seiichi Toki ^{1,2,3} (¹ Inst. Agrobiol. Sci., NARO, ² Grad. Sch. Nanobio., Yokohama City Univ., ³ Kihara Inst. Biol. Res., Yokohama City Univ.)
15:05	S03-3	Targeted sequence disruptions of plant mitochondria genomes. <u>Shin-ichi Arimura</u> (Grad. Sch. of Agri. & Life Sci. Univ of Tokyo)
15:35		Coffee break
15:50	S03-4	Genome editing by direct delivery of CRISPR/Cas9 components into plant zygote <u>Erika Toda</u> (Dept. of Biol. Sci., Tokyo Metropolitan Univ.)
● Chairperson: Erika Toda		
16:10	S03-5	Development of a cultivar-independent gene editing system in plants <u>Haruyasu Hamada</u> (KANEKA Co., Ltd.)
16:30	S03-6	Generation of new technologies of genome editing and plant regeneration <u>Yuriko Osakabe</u> (Fac. Biosci. & Bioind., Tokushima Univ.)
● Chairperson: Yuriko Osakabe		
16:55		Closing remarks

**Cosponsored by Educational Training Committee of the Japanese Society
for Genome Editing and JST-OPERA.
Supported by NEDO.**

Day 1, PM

Symposium 04

Sun., March 14, 14:00–16:45 Room Y

Re-optimization of Energy Transduction in Photosynthesis — Structure, Function and System

Language: Japanese

Organizers: Jun Minagawa (NIBB)
Genji Kurisu (Inst. Prot. Res., Osaka Univ.)

14:00 Opening remarks
Genji Kurisu

• Chairperson: Genji Kurisu

14:05 **S04-1** Functional and structural analyses of photosynthetic pigment-protein complexes ~Insights into evolution of oxyphototrophs~
Ryo Nagao (RIIS, Okayama University)

14:30 **S04-2** Multimeric and monomeric PSII supercomplexes represent structural adaptations to low- and high-light conditions
Eunchul Kim¹, Akimasa Watanabe¹, Christopher Duffy², Alexander Ruban², Jun Minagawa¹
(¹NIBB, ²Queen Mary University of London)

14:55 **S04-3** Systemsbiology of Photosynthetic Organisms
Hiroshi Shimizu (Grad. Sch. Info. Sci. Tech., Osaka Univ.)

15:20 Break

• Chairperson: Jun Minagawa

15:25 **S04-4** Structural basis for the membrane protein complexes responsible for the formation of proton motive force
Genji Kurisu (Inst. Prot. Res., Osaka Univ.)

15:50 **S04-5** Thylakoid membrane remodeling mediated by VIPP1 protein in photosynthetic organisms
Wataru Sakamoto, Norikazu Ohnishi (Inst. Plant Sci. Resources., Okayama Univ.)

16:15 **S04-6** Single molecule observation of photosynthetic proteins in thylakoid membrane by high-speed atomic force microscopy
Daisuke Yamamoto (Fac. Sci., Fukuoka Univ.)

16:40 Closing remarks
Jun Minagawa

**This symposium is Jointly sponsored by the Scientific Research on Innovative Areas:
New Photosynthesis: Re-optimization of the Solar Energy Conversion System.**

Day 1, PM

Symposium 05

Sun., March 14, 14:00–17:10 Room Z



PCP sponsored symposium

Mineral element transport systems in plants: transporters, regulation and utilization

Language: English

Organizers: Jian Feng Ma (Institute of Plant Science and Resources, Okayama University)
Yi-Fang Tsay (Institute of Molecular Biology, Academia Sinica)

14:00

Opening remarks
Miki Matoba (Director, Academic Division, Oxford University Press)

• Chairperson: Yi-Fang Tsay

14:05

S05-1

Molecular Basis Underlying Long-distance Movement of Arabidopsis miR399 in Regulating Phosphate Homeostasis
Tzyy-Jen Chiou, Chih-Bin Chiang, Jia-Ling Li, Su-Fen Chiang (Agricultural Biotechnology Research Center, Academia Sinica, Taiwan)

14:35

S05-2

Molecular regulatory mechanisms of phosphate uptake and translocation in rice
Chuanzao Mao (Zhejiang University)

15:05

S05-3

Transporters for loading mineral elements to rice grains
Jian Feng Ma (Institute of Plant Sciences and Resources, Okayama University)

• Chairperson: Jian Feng Ma

15:35

S05-4

Boron-dependent translation of a boron transporter and control of boron requirement in *Arabidopsis thaliana*
Kyoko Miwa (Grad. Sch. Environ. Sci., Hokkaido Univ.)

16:05

S05-5

Multilayered regulation of the root iron uptake machinery in Arabidopsis
Greg Vert (LRSV - CNRS/Université Toulouse)

16:35

S05-6

Improving nitrogen utilization by manipulating nitrate remobilization in plants
Yi-Fang Tsay, Kuo-En Chen (Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan)

17:05

Closing remarks

Specially Promoted Research

Day 2, AM

Symposium 06

Mon., March 15, 9:00–12:00 Room X

**Frontiers in plant redox biology:
Redox regulation, oxidative stress and signaling**

Language: Japanese

Organizers: Takanori Maruta (Fac. Life Environ. Sci., Shimane Univ.)
Keisuke Yoshida (Lab. Chem. Life Sci., Tokyo Tech.)

09:00 Opening remarks
Keisuke Yoshida

• Chairperson: Keisuke Yoshida

09:05 **S06-1** Why and how do plants accumulate ascorbate at very high levels?
Takanori Maruta (Fac. Life Environ. Sci., Shimane Univ.)

09:30 **S06-2** Evolutionary history of redox regulation in photosynthetic electron transport
Ginga Shimakawa (Res. Solar Energ., Univ. Osaka)

09:55 **S06-3** Redox regulation of photosystem I: identification of a new FeS protein involved in P700 oxidation
Mai Duy Luu Trinh, Shinji Masuda (Dep. Life Sci. and Technol., Tokyo Inst. Tech.)

• Chairperson: Takanori Maruta

10:20 **S06-4** Strong-light response of photosynthesis and redox regulation of protein synthesis
Yoshitaka Nishiyama (Grad. Sch. Sci. Eng., Saitama Univ.)

10:45 **S06-5** Thioredoxin-based redox-regulatory network in chloroplasts
Keisuke Yoshida, Yuichi Yokochi, Toru Hisabori (Lab. Chem. Life Sci., Tokyo Tech.)

11:10 **S06-6** The role of receptor-like kinase in ROS signaling *via* NADPH oxidase in *Arabidopsis*
Sachie Kimura (Ritsumeikan Global Innovation Research Organization, Ritsumeikan Univ.)

11:35 Discussion
Takanori Maruta

New photosynthesis: Re-optimization of the solar energy conversion system

Mon., March 15, 9:00–12:05 Room Y

A new perspective for integrated Bio-metal ScienceLanguage: Japanese

Organizers: Junpei Takano (Grad. Sch. Life Environ. Sci., Osaka Pref. Univ.)
Ryo Tabata (Grad. Sch. Bioagri. Sci., Nagoya Univ.)

09:00		Opening remarks Junpei Takano
● Chairperson: Junpei Takano		
09:05	S07-1	Systemic regulation of iron acquisition in plants <u>Ryo Tabata</u> (Grad. Sch. Bioagri. Sci., Nagoya Univ.)
09:30	S07-2	Plant iron deficiency responses and iron sensing by iron- and zinc-binding HRZ ubiquitin ligases <u>Takanori Kobayashi</u> (Ishikawa Pref. Univ.)
09:55	S07-3	Crosstalk of zinc homeostasis and protein quality control in the secretory pathway of mammalian cells <u>Yuta Amagai</u> ¹ , Momo Yamada ¹ , Tomomi Watanabe ¹ , Toshiyuki Kowada ¹ , Satoshi Naramoto ^{2,3} , Satoshi Watanabe ¹ , Junko Kyojuka ² , Roberto Sitia ⁴ , Shin Mizukami ¹ , Kenji Inaba ¹ (¹ IMRAM, Tohoku Univ., ² Grad. Sch. Life Sci., Tohoku Univ., ³ Fuc. of Sci., Hokkaido Univ., ⁴ IRCCS-OSR, Italy)
● Chairperson: Takanori Kobayashi		
10:20	S07-4	Contribution of Sulfur Assimilation and Metabolism to Metal Uptake and Accumulation in Plants <u>Akiko Maruyama</u> (Faculty of Agriculture, Kyushu University)
10:45	S07-5	Predicting the dynamics of bio-metals by transport simulations <u>Naoyuki Sotta</u> ¹ , Junpei Takano ² , Toru Fujiwara ¹ (¹ Grad. Sch. Agr. Life Sci., Univ. Tokyo, ² Grad. Sch. Life Envir. Sci., Osaka Pref. Univ.)
● Chairperson: Ryo Tabata		
11:10	S07-6	BOR1 is a borate tranceptor. <u>Junpei Takano</u> ¹ , Akira Yoshinari ² , Takuya Hosokawa ¹ (¹ Grad. Sch. Life Environ. Sci., Osaka Pref. Univ., ² ITbM, Nagoya Univ.)
11:35	S07-7	Characterization of metal-associated proteins by conditional proteomics approach <u>Tomonori Tamura</u> (Grad. Sch. Eng., Kyoto Univ.)
12:00		Closing remarks Ryo Tabata

Mon., March 15, 9:00–11:55 Room Z

Past and future of plant RNA research answering fundamental questionsLanguage: Japanese**Organizers:** Masayuki Tsuzuki (Grad. Sch. Arts. Sci., Univ. Tokyo)
Yukio Kurihara (RIKEN CSRS)

09:00		Opening remarks Masayuki Tsuzuki
● Chairperson: Yukio Kurihara		
09:05	S08-1	Broad Noncoding Transcription by RNA Polymerase V Suggesting Genome Surveillance <u>Masayuki Tsuzuki</u> ^{1,2} (¹ Grad. Sch. Arts. Sci., Univ. Tokyo, ² MCDB, Univ. Michigan)
09:30	S08-2	Biochemical characterization of Dicers in plants and other eukaryotes <u>Midori Tabara</u> ¹ , <u>Toshiyuki Fukuhara</u> ^{1,2} (¹ GIR, Tokyo. Univ. Agri. Tech., ² Grad. Sch. Agri., Tokyo. Univ. Agri. Tech.)
09:55	S08-3	Deadenylases in the Arabidopsis CCR4-NOT complex act in shoot regeneration from the callus <u>Toshihiro Arae</u> ¹ , <u>Riko Imahori</u> ² , <u>Yuya Suzuki</u> ² , <u>Misato Ohtani</u> ^{1,4} , <u>Yukako Chiba</u> ^{2,3} (¹ Grad. Sch. Frontier Sci., Univ. Tokyo, ² Grad. Sch. Life Sci., Hokkaido Univ., ³ Fac. Sci., Hokkaido Univ., ⁴ Div. Bio. Sci., NAIST)
● Chairperson: Masayuki Tsuzuki		
10:20	S08-4	Early origin of synchronization between chloroplast translation and cytosolic mRNA abundance in plants <u>Shintaro Iwasaki</u> (RIKEN Cluster for Pioneering Research)
10:45	S08-5	tRNA wobble uridine modification in <i>Arabidopsis thaliana</i> <u>Yumi Nakai</u> (Dept. of Biochemistry, Osaka Medical College)
11:10	S08-6	Translation Arrest and mRNA Degradation: What We Could See/ yet Cannot See from Methionine Biosynthesis <u>Satoshi Naito</u> (Grad. School. Agriculture., Grad School. Life Sci., Hokkaido Univ.)
11:50		Closing remarks Yukio Kurihara

Mon., March 15, 13:00–15:50 Room X

Molecular elucidation of plant environmental adaptation toward engineering responses of field-grown plants

Language: Japanese

Organizers: Akira Mine (Col. Life Sci., Ritsumeikan Univ.)
Kohji Yamada (Grad. Sch. Tech. Ind. Sco. Sci. Tokushima Univ.)
Kaori Yoneyama (Grad. Sch. of Agric., Ehime univ.)

• Chairperson: Akira Mine

13:00		Opening remarks
13:05	S09-1	Supra-organismal regulation of strigolactone synthesis and exudation in response to rhizospheric cues <u>Kaori Yoneyama</u> ^{1,2} (¹ Grad. Sch. Agri., Ehime Univ., ² JST PRESTO)
13:30	S09-2	Root anatomical traits that correlate with environmental adaptation of plants <u>Takaki Yamauchi</u> ^{1,2} (¹ Biosci. Biotech. Ctr., Nagoya Univ., ² JST PRESTO)

• Chairperson: Kaori Yoneyama

13:55	S09-3	Long-distance mobile peptides maintain root sucrose level and root growth <u>Satoru Okamoto</u> ^{1,2} , Azusa Kawasaki ¹ , Yumiko Makino ³ , Takashi Ishida ⁴ , Shinichiro Sawa ⁵ (¹ Grad. Sch. Sci and Tech., Univ. Niigata, ² JST PRESTO, ³ NIBB, ⁴ IROAST, Univ. Kumamoto, ⁵ Grad. Sch. Sci and Tech., Univ. Kumamoto)
14:20		Break
14:30	S09-4	A molecular mechanism of defense-sugar crosstalk <u>Kohji Yamada</u> ^{1,2} (¹ Grad. Sch. Tech. Ind. Sco. Sci. Tokushima Univ., ² JST PRESTO)

• Chairperson: Kohji Yamada

14:55	S09-5	Epigenome regulation of environmental adaptations in plants <u>Soichi Inagaki</u> ^{1,2} (¹ Grad. Sch. Sci., Univ. Tokyo, ² JST PRESTO)
15:20	S09-6	Diverse non-coding RNAs involved in plant reproductive system <u>Reina Komiya</u> ^{1,2} (¹ Science and Technology Group, Okinawa Institute of Science and Technology Graduate University (OIST), ² JST PRESTO)
15:45		Closing remarks

JST PRESTO [Control of Field-Grown Plants Phenomena]

Mon., March 15, 13:00–16:00 Room Y

**Borderless Era of Plant Chemical Research
—New Trends in Plant Chemical Biology and Plant Metabolite Chemistry.**Language: Japanese**Organizers:** Takeshi Nakano (Kyoto Univ.)
Masami Hirai (RIKEN)

13:00		Opening remarks Takeshi Nakano
● Chairperson: Kazufumi Yazaki		
13:05	S10-1	Identification of structures and functions of widely spreading acylspermidines <u>Tadao Asami</u> (Grad Sch Life Science, UTokyo)
13:25	S10-2	Reconsideration of amino acid metabolism in plant —from the viewpoint of development— <u>Masami Yokota Hirai</u> ^{1,2} , Kensuke Kawade ^{1,3,4} (¹ RIKEN CSRS, ² Grad. Sch. Bioagric. Sci., Nagoya Univ., ³ NIBB, ⁴ SOKENDAI)
13:45	S10-3	Development and utilization of synthetic compounds for elucidation of physiological function of abscisic acid receptors. <u>Masanori Okamoto</u> (Center for Bioscience Research and Education, Utsunomiya University)
14:05	S10-4	Exploiting the metabolic polymorphism of polyphenolics in plant species <u>Takayuki Tohge</u> (Nara Institute of Science and Technology (NAIST))
14:25		Rest
● Chairperson: Hikari Seki		
14:30	S10-5	Chemical biology to reveal molecular mechanism of plant growth <u>Takeshi Nakano</u> (Grad. Sch. Biostudies, Kyoto Univ.)
14:50	S10-6	Functions of plant chemicals in the rhizosphere and possibilities for plant growth regulation <u>Akifumi Sugiyama</u> , Masaru Nakayasu, Kazufumi Yazaki (RISH, Kyoto University)
15:10	S10-7	How did licorice acquire the ability to produce a sweet saponin? <u>Toshiya Muranaka</u> , Hikaru Seki (Dept Biotechnol Grad Sch Eng, Osaka U)
15:30	S10-8	Construction of a data resource for the top-down discovery of unused plant-derived specialized metabolites <u>Nozomu Sakurai</u> (National Institute of Genetics)
15:50		Discussion Masami Hirai

Tue., March 16, 9:00–11:50 Room X

Elongate, bend, and expand: Deciphering plant growth strategy from its mechanics

Language: Japanese

Organizers: Yuki Yoshida (Kumamoto University)
Misato Ohtani (The University of Tokyo)

● Chairperson: Yuki Yoshida

09:00		Opening remarks Yuki Yoshida
09:05	S11-1	Plant plasticity through the narrow gate <u>Yoshikatsu Sato</u> (WPI-ITbM, Nagoya Univ)
09:30	S11-2	The strategy of plant survival revealed by nutritropism in rice roots. <u>Kiyoshi Yamazaki</u> , Toru Fujiwara (Grad. Sch. Agri. Life Sci., Univ. Tokyo)
09:55	S11-3	A mechanical criterion for root-penetration into soil based on root-soil mechanics <u>Haruka Tomobe</u> ¹ , Satoru Tsugawa ² , Yuki Yoshida ³ , Tetsuya Arita ³ , Minoru Kubo ³ , Taku Demura ² , Shinichiro Sawa ³ (¹ National Institute of Technology, Toyota College, ² Nara Institute of Science and Technology (NAIST), ³ Faculty of Advanced Science and Technology, Kumamoto University)
10:20		Break
● Chairperson: Misato Ohtani		
10:30	S11-4	How to make a shelter in the shape of an egg, learn from testate amoeba <u>Mami Nomura</u> ¹ , Yukinori Nishigami ² , Masatoshi Ichikawa ³ , Takuro Nakayama ⁴ , Keisuke Ohta ⁵ , Kei-ichiro Nakamura ⁵ (¹ Fac. Life and Env. Sci., Univ. Tsukuba, ² RIES, Hokkaido Univ., ³ Dept. Phys., Kyoto Univ., ⁴ Grad. Sch. of Life Sci., Tohoku Univ., ⁵ Sch. Med., Kurume Univ.)
10:55	S11-5	Growth stress of large-diameter trees <u>Miyuki Matsuo</u> (Grad. Sch. Bioagr. Sci., Nagoya Univ.)
11:20	S11-6	Plant Physics: its Diversity and Universality <u>Hiroyuki Shima</u> (Fac. Life Env. Sci., Univ. Yamanashi)
11:45		Closing remarks Misato Ohtani

MEXT Grant-in-Aid for Scientific Research on Innovative Areas, "Plant Structure Optimization"

Tue., March 16, 9:00–12:00 Room Y

Molecular Mechanisms of Transcriptional Repression in PlantsLanguage: Japanese**Organizers:** Hironori Takasaki (Saitama Univ.)
Masaru Ohme-Takagi (Saitama Univ.)09:00 Opening remarks
Masaru Ohme-Takagi

• Chairperson: Satoshi Kidokoro

09:05 **S12-1** Combinations of maternal-specific repressive epigenetic marks in the endosperm control seed dormancy
Hikaru Sato, Juan Santos-González, Claudia Köhler (The Swedish University of Agricultural Sciences)09:30 **S12-2** Functional analysis of ELONGATION OF SILIQUES WITHOUT POLLINATION 3 in endosperm in Arabidopsis
Hironori Takasaki¹, Miho Ikeda¹, Reika Hasegawa¹, Yilin Zhang¹, Shingo Sakamoto², Daisuke Maruyama³, Nobutaka Mitsuda², Tetsu Kinoshita³, Masaru Ohme-Takagi¹ (¹Grad. Sch. Sci. Eng., Saitama Univ., ²Bioproduction Res. Inst. AIST, ³Kihara Inst. Bio. Res. Yokohama City Univ.)09:55 **S12-3** The factor of transcriptional repression regulating endosperm development in rice
Kaoru Tonosaki (Faculty of Agr., Iwate Univ.)

10:20 Break

• Chairperson: Hironori Takasaki

10:35 **S12-4** Semi-automatic transient gene expression system in plant protoplast for plant TFome analysis.
Shingo Sakamoto¹, Masaru Ohme-Takagi^{1,2}, Nobutaka Mitsuda¹ (¹Bioproduction Res. Inst., AIST, ²Grad. Sch. Sci. Eng., Saitama Univ.)11:00 **S12-5** Transcriptional silencing of the cold-inducible *DREB1A/CBF3* gene in the Arabidopsis *ice1-1* mutant
Satoshi Kidokoro¹, June-Sik Kim², Tomona Ishikawa¹, Takamasa Suzuki³, Kazuo Shinozaki², Kazuko Yamaguchi-Shinozaki^{1,4} (¹Grad. Sch. Agr. Life Sci., Univ. Tokyo, ²Center for Sustainable Resource Science, RIKEN, ³College of Bioscience and Biotechnology, Chubu Univ., ⁴Res. Inst. Agr. Life Sci., Tokyo Univ. Agr.)11:25 **S12-6** Transcriptional repression wakes up green algae
Takuya Matsuo (Center for Gene Research, Nagoya University)11:50 Closing remarks
Hironori Takasaki