

19 September (9:15-12:00) Oral Presentation Program

						Chair: Sachiko Isobe (Kazusa DNA)	Chair: Manaki Mimura (Univ. Tokyo)	Chair: Hiroshi Hisano (Okayama Univ.)	Chair: Mai Minamikawa (Chiba Univ.)	Chair: Hiroyuki Kakui (Univ. Tokyo)	Chair: Hidetaka Kaya (Ehime Univ.)		
9:15	101	De novo genome assembly and genomic analysis for characterization of Japanese breeding lines in sugar beet.	201	Functional analysis of a tail suppressor gene in rice tiller formation ☆Ohyama, A.1, T. Toriba2, W. Tanaka1 (1.Grad. Sch. Integr. Sci. Life, Hiroshima Univ., 2.Miyagi Univ.)	301	Effect of postharvest short-term storage and storage temperature on sugar and carbohydrate content of sweetpotato varieties. ○Nishinaka, M., K. Taguchi (Central Reg. Agri. Res. Cent., NARO)	401	Differentiable breeding: Automatic differentiation enables efficient gradient-based optimization of breeding strategies ☆Hamazaki, K.1, H. Iwata2, K. Tsuda1,3 (1.Adv. Int. Pro., RIKEN, 2.Grad. Sch. Agr. Life Sci., Univ. Tokyo, 3.Grad. Sch. Fro. Sci., Univ. Tokyo)	501	Self-incompatibility phenotypes of SRK mutants can be predicted with high accuracy ○Yamamoto, M.1, S. Otake1, A. Sinozawa2, M. Shirota3, Y. Mitsui4, H. Kitashiba1 (1.Graduate School of Agricultural Science, Tohoku University, 2.NODAI Genome Research Center, Tokyo University of Agriculture, 3.Graduate School of Medicine, Tohoku University, 4.Graduate School of Agricultural Science, Tokyo University of Agriculture)	601	Possibility that senescence-related genes are involved in decreased heterosis level by DDM1 dysfunction and reduced leaf area due to shade avoidance syndrome ☆Nishimura, K., R. Fujimoto (Kobe University, Graduate School of Agricultural Science, Kobe, Japan)	9:15
9:30	102	Challenges to assemble autotetraploid genomes with long read sequencing ○Naito, K.1, H. Sakai2, H. Yamakawa3, K. Aka4 (1.NGRC, 2.NAAC, 3.NICS, 4.HARC/NARO)	202	Discovery and analysis of a novel factor that promotes tiller formation in rice ☆Mizugishi, K., S. Nishino, W. Tanaka (Grad. Sch. Integr. Sci. Life, Hiroshima Univ.)	302	Underground visualization techniques for root crop phenotyping ☆Tei, M.1, J. Liu2, Y. Uga1, T. Ishii2,3 (1.Inst. Crop Sci., NARO, 2.Arid Land Research Center, Tottori Univ., 3.International Platform for Dryland Research and Education, Tottori Univ.)	402	Fusion of remote sensing data collected at different scales through statistical modeling ☆Fukumoto, Y.1, T. Chen1,2, M. Okada3, Y. Toda4, Y. Ohmori1, Y. Yamasaki5, H. Takahashi6, H. Takanashi1, M. Tsuda7, W. Guo1, M. Hirai8, H. Tsujimoto5, A. Kaga9, M. Nakazono6, T. Fujiwara1, H. Iwata1 (1.Grad. Sch. Agr. Life Sci., Univ. Tokyo, 2.Inst. Vegetable and Floriculture Sci., NARO, 3.Sarabetsu Prediction, 4.Inst. Agro-Environmental Sci., NARO, 5.Arid Land Res. Ctr., Tottori Univ., 6.Grad. Sch. Biogri. Sci., Nagoya Univ., 7.T-PIRC, Univ. Tsukuba, 8.Ctr. for Sustainable Resource Sci., RIKEN, 9.Inst. Crop Sci., NARO)	502	Independence of female receptors in self-incompatibility(SRK) and unilateral incompatibility(SUII) in <i>Brassica rapa</i> . ○Takada, Y.1, K. Murase2, J. Park1,3, G. Suzuki4, S. Takayama2, M. Watanabe1 (1.Grad. Sch. Sci., Tohoku Univ., 2.Grad. Sch. Agr. Sci., Univ. Tokyo, 3.Sunchon Natl. Univ., 4.Osaka-kyoiku Univ.)	602	Genome editing using a compact and highly efficient engineered AsCas12f in plants ○Saika, H.1, K. Ishibashi1, S. Sukegawa1, M. Endo1, N. Harai1, O. Nureki2, S. Toki1,3,4,5 (1.Inst. Agrobiol. Sci., NARO, 2.Grad. Sch. Sci., Univ. Tokyo, 3.Grad. Sch. Nanobioscience, Yokohama City Univ., 4.KIBR, Yokohama City Univ., 5.Fac. Agr., Ryukoku Univ.)	9:30
9:45	103	Whole genome sequencing of <i>Momordica cochinchinensis</i> and comparative analysis with genome of <i>Momordica charantia</i> . ☆Kawashima, W.1, H. Matsumura2 (1.Grad. Sch. Sci. Tech., Shinshu Univ, 2.Gene Res. Ctr., Shinshu Univ.)	203	Analysis of rice mutants that rescue the defect in axillary bud formation in tillers absent1 ☆Aimori, S., A. Ohyama, W. Tanaka (Grad. Sch. Integr. Sci. Life, Hiroshima Univ.)	303	Researching traits of tea genetic resources in Shizuoka prefecture for use in breeding. ☆Aoshima, C.1, J. Kawaki1, Y. Shuzuki1, M. Sakurai2, H. Yamashita3,4, Y. Ishiguro5, T. Ikka3,4,6 (1.Tea Res. Cent., Shizuoka Pref., 2.Shidaibara Agr. Forest. Office, Shizuoka Pref., 3.Fac. Agr., Univ. Shizuoka, 4.Shizuoka Univ. Rec. Inst. Tea Sci., 5.Grand. Agr., Univ. Shizuoka, 6.Shizuoka Univ. Res. Inst. Green Sci. Tech.)	403	Crossing Strategy Considering Multiple Traits Based on the Ability of Future Inbred Lines in Plant Breeding Programs ☆Sakurai, K.1, M. Laurence2, M. Tristan2,3, I. Hiroyoshi1, C. Alain2 (1.Grad. Sch. Agr. Life Sci., Univ. Tokyo, 2.Univ. Paris-Saclay, GQE - Le Moulon, France, 3.Univ. Paris-Saclay, UMR MIA Paris-Saclay, France)	503	Transcriptome analysis of the hybrid endosperm overcoming the hybridization barrier in an interspecific cross with wild rice ☆Sakurai, F.1, E. Kurosaka2, H. Furuumi3, Y. Sato3, K. Hatakeyama2, K. Tonosaki1, T. Kinoshita1 (1.KIBR, Yokohama City Univ., 2.Fac. Agri., Iwate Univ., 3.NIG)	603	Fine-tuning TAWAWA1-mediated panicle architecture by genome editing of a downstream conserved noncoding sequence in rice Kuroha, T.1, F. Lombardo1, W. Iwasaki2, S. Chechetka1, Y. Kawahara3, A. Yoshida2, J. Kyozuka2, T. Makino2, ○H. Yoshida1 (1.Inst. Agrobiological Sci., NARO, 2.Grad. School Life Sci., Tohoku Univ., 3.Adv. Anal. Ctr., NARO)	9:45
Chair: Ken Naito (NARO)		Chair: Hiroto Yamashita (Shizuoka Univ.)		Chair: Kaoru Tonosaki (Yokohama City Univ.)		Chair: Hiroaki Saika (NARO)							
10:00	104	Genome analysis of the highly salt-tolerant wild rice <i>Oryza coarctata</i> ☆Nishiyama, N., T. Mochizuki, M. Sakamoto, Y. Tanizawa, K. Tsuda, S. Shimizu-Sato, T. Yoshikawa, Y. Nakamura, A. Toyoda, Y. Sato (National Institute of Genetics)	204	Genetic and cytological analyses of a very short awn mutant of barley ○Taketa, S., T. Nishina, M. Shiraga (Research Institute of Plant Science and Resources, Okayama University)	304	Influence of soil pH and fertilizer level on grain mineral accumulation in rice MAGIC population ☆ZHANG, Q.1, T. Furuta1, K. Kashihara1, D. Ogawa2, J. Yonemaru3, J. Mai, T. Yamamoto1 (1.IPSR, Grad. Sch. Environ. Life Nat. Sci., Okayama Univ., 2.NICS, NARO, 3.RCAIT, NARO)	404	Optimization of cross pairs among families with different genetic characteristics to improve multiple traits ☆Kinoshita, S.1, K. Sakurai1, K. Hamazaki2, T. Tsusaka3, M. Sakurai3, K. Shirasawa4, S. Isobe4, H. Iwata1 (1.Grad. Sch. Agr. Life Sci., Univ. Tokyo, 2.Adv. Int. Proj., RIKEN, 3.TSUMURA & CO., 4.Kazusa DNA Res. Inst.)	504	Maize-wheat cybrid plants (Zeawheat): genome composition and intergenerational transmission ☆Onda, N.1, A. Satoh1, F. Nowroz1, K. Kobayashi1, T. Maryentil1, T. Ishii2, T. Okamoto1 (1.Dept. Biol., Tokyo Met. Univ., 2.ALRC., Tottori Univ.)	604	Screening of a gene that determines saccharification yields from rice straws by overexpression of the candidates ☆Yamaguchi, M., A. Ono, Y. Ito (Grad. Agri. Sci., Tohoku Univ.)	10:00

10:15	105	Population structure analysis and GWAS of fruit shape traits in hexaploid persimmon cultivars	Chair: Jun-ichi Itoh (Univ. Tokyo)	305	Genetic variation of malic acid content of barley cultivars	Chair: Shumpei Hashimoto (Univ. Tokyo)	505	Production of amphidiploids between cultivated rice and distantly related wild <i>Oryza</i> and transmission of heterogeneous genomes to progeny	605	Evaluating Transgenic Plant Selection with Streptomycin Resistance Gene in <i>Arabidopsis thaliana</i> and <i>Marchantia polymorpha</i>	10:15			
	205	Three dimensional live imaging analysis of cellular growth dynamics in the grass leaf primordium	☆Tokuyama, Y.1, M. Taguchi2, R. Kelly-Bellow3, R. Smith3, Y. Kishima4, Y. Koide4 (1.Graduate School of Agriculture, Hokkaido University, 2.Faculty of Agriculture, Hokkaido University, 3.Department of Computational and System Biology, John Innes Centre, 4.Research Faculty of Agriculture, Hokkaido University)		☆Amano, K., Y. Nakano, T. Nagamine (CARC, NARO)	405	Time-series analysis of flowering in <i>Portulaca umbraticola</i> using state-space models	○Ishimori, M. (Grad. Sch. Agri. Life Sci., Univ. Tokyo)		☆Ono, S.1, Y. Sato2, T. Okamoto (1.Grad. Sch. Dept. Biol., Tokyo Met. Univ., 2.Dept. Gen. Evol., NIG.)				
10:30	106	Genome sequencing and gene prediction of 16 strawberry varieties in Japan	○Isobe, S.1,2, K. Shirasawa1, H. Hirakawa1,3, M. Hamano4, K. Ryu5, T. Kurokura6 (1.Kazusa DNA Research Institute, 2.Grad. Sch. Agric. Life Sci., Univ. Tokyo, 3.Fac. Agric., Kyushu Univ., 4.Tohoku Agric. Res. Cent., NARO, 5.Fukuoka Pref. Agric. and Forest. Res. Cent, 6.Utsunomiya Univ., Sch. Agric.)	206	Association of the number of passage cells in the roots of the high-yielding rice cultivar with the conduction resistance and photosynthesis	306	Clubroot resistance of <i>Brassica rapa</i> plants harboring two NLR genes localized at Crr1b.	406	Rapid flower bud induction in Brassicaceae plants by grafting gibberellin-treated elongated internodes into the flower stem	506	Relationship between developmental progression and allogenomic situation in rice-setaria hybrid zygotes.	606	Genome editing of CAD gene involved in lignin biosynthesis in bahiagrass – Morphology and fiber composition in segregating populations of CAD mutant loci–	10:30
		☆Sumi, K.1, H. Yamanaka2, D. Someno3, H. Morishita1, S. Minami1, S. Ishizaki4, Y. Watanabe5, E. Kameoka6, K. Taniyoshi7, S. Adachi8, K. Noshita3, Y. Tanaka2, T. Yamauchi9 (1.Grad. Sch. Bioagr. Sci., Nagoya Univ., 2.Grad. Sch. Environ. Life Sci., Okayama Univ., 3.Grad. Sch. Sci., Kyushu Univ., 4.Sch. Agric., Okayama Univ., 5.Mitsubishi UFJ Research and Consulting, 6.Grad. Sch. Agric. Sci, Tohoku Univ., 7.Grad. Sch. Agr., Kyoto Univ., 8.Grad. Sch. Agr., Tokyo Univ. Agr. Tech., 9.Biosci. Biotech. Center, Nagoya Univ.)	○Hatakeyama, K.1, M. Akitaya1, M. Takahashi1, M. Tsukazaki1, K. Tonosaki2, M. Shimizu3, S. Matsumoto4 (1.Fac.Agr., Iwate Univ., 2.KIBR, Yokohama City Univ., 3.IBRC, 4.BRAIN)	☆Hara, M.1, S. Miyashima2, M. Yoshizumi1, R. Kumazawa1, M. Nishikawa1, T. Segawa1, H. Takagi1 (1.Ishikawa Prefectural University, 2.Ishikawa Prefectural University Research Institute for Bioresources and Biotechnology)	○Tamaya, K., A. Sato, T. Okamoto (Life science, Tokyo Metropolitan University)	○Goudo, T.1, A. Watajima2, R. Ikegame3 (1.FSRC, Univ. Miyazaki, 2.Grad. Sch. Agr., Univ. Miyazaki, 3.Fac. Agric., Univ. Miyazaki)								
10:45	107	Heterozygosity and ploidy effects on alternative splicing revealed by transcriptome analysis of interspecific tetraploid rice	☆MU, H.1, T. Furuta1, N. Kiyotaka1, Y. Kishima2, H. Kato3, Y. Koshiishi4, T. Yamamoto1 (1.IPSR, Grad. Sch. Environ. Life Nat. Sci., Okayama Univ., 2.Grad. Sch. Agr., Hokkaido Univ., 3.Tokyo Univ. of Agr., 4.Hokkaido Univ.)	207	Analysis of the effect of temperature decrease on rice panicle development	307	Root specific Ym2 expression confers resistance to soil-borne Wheat yellow mosaic virus in wheat	407	Runner grafting in strawberry (<i>Fragaria</i> spp.)	507	QTL analysis of hybrid sterility and yield-related traits in BC1F1 derived from a cross between Asu as the donor parent and Taichung 65 as the recurrent parent	607	Genome editing of SPA in bread wheat to alter gluten composition	10:45
		○Komatsuda, T. (Shandong Academy of Agricultural Sciences)	☆Makihara, N.1, S. Nishino1, A. Ohyama1, K. Tsuda2, T. Toriba3, W. Tanaka1 (1.Grad. Sch. Integr. Sci. Life, Hiroshima Univ., 2.NIG, 3.Miyagi Univ.)		○Tanaka, A., T. Kurokura, S. Bang, T. Ohnishi (Sch. Agr., Univ. Utsunomiya)	☆Ogihara, S.1, Y. Nakamura1, T. Kojo2, T. Sakamoto2, K. Ichitani2, N. Asagi1, T. Kuboyama1 (1.Grad. Sch. Agr., Ibaraki U, 2.Grad. Sch. Agr. Forest. Fish., Kagoshima U)	☆Sakurai, S.1,2, N. Kawano1,2, S. Sakoguchi2, H. Ogawa1,2, Y. Kamiya2, K. Kawaura2 (1.Sch. Sci., Yokohama City Univ., 2.KIBR, Yokohama City Univ.)							
11:00	108	Identification of genetic loci for tuber dormancy in potato using Polyploid QTL-seq analysis.	○Asano, K.1, H. Yamakawa2, T. Mizubayashi2, H. Nakajima1, K. Akai1, E. Shimosaka1, K. Katayama1 (1.HARC, NARO, 2.Inst. Crop Sci., NARO)	208	Analysis of the mechanism underlying rice spikelet development in response to temperature decrease	308	Expression patterns and insensitivity of ribosome-related genes in anthers of cold tolerance rice line at the booting stage	408	Statistical Modeling of the Interaction between Scion and Rootstock in Citrus Breeding Population	508	Genetic mapping and candidate gene analysis of <i>thb2</i> causing hybrid breakdown in a cross between japonica rice cultivars.	608	Characterization of high frequency chromosomal mutations observed in the cross of <i>Nicotiana amplexicaulis</i> × <i>N. tabacum</i>	11:00
		☆Nishino, S.1, K. Mizugishi1, A. Ohyama1, T. Toriba2, W. Tanaka1 (1.Grad. Sch. Integr. Sci. Life, Hiroshima Univ., 2.Miyagi Univ.)	☆Yamamori, K.1,2, Y. Kishima1 (1.Grad. Sch. Agric., Hokkaido Univ., 2.Grad. Sch. Agric., Kyoto Univ.)		☆Kimura, S.1, M. Minamikawa2, K. Nonaka3, T. Shimizu3, H. Iwatal1 (1.Grad. Sch. Agr. Life Sci., Univ. Tokyo, 2.IAAR, Chiba Univ, 3.NIFTS, NARO)	☆Wakabayashi, T., N. Awasaki, S. Iizuka, K. Kato (Obihiro University of Agriculture and Veterinary Medicine)	☆Nakata, K.1, T. Tezuka2, M. Kanekatsu1, T. Yamada1 (1.United Grad. Sch. Agr., Tokyo U. Agr. Tech., 2.Grad. Sch. Agr., Osaka Metro. Univ.)							

11:15	109	Polyplid GWAS reveals the basis of molecular marker development for starch content when associated with important breeding trait in storage root of sweetpotato ○Haque, E. I., K. Shirasawa2, K. Suematsu1, H. Tabuchi1, S. Isobe2, M. Tanaka1 (1.Kyu. Oki. Agric. Res. Cent., NARO, Japan, 2.Kazusa DNA Res. Inst., Japan)	Chair: Ayumi Agata (Nagoya Univ.)	309	Selection method for cold-tolerant lines in rice using anther length under natural field condition ○Mimura, M.1, K. Nonomura2, J. Itoh1 (1.Grad. Sch. Agri. & Life Sci., Univ. Tokyo, 2.Natl. Inst. Genet., NIG)	409	Selection of Brassicaceae seeds by size-independent shape analyses ☆Sato, R.1, A. Zewdu1, A. Abe2, T. Fujioka3, H. Takasago4, M. Matsunami5, H. Shimono5,6 (1.The United Graduate School of Agricultural Sciences-Iwate University, 2.Iwate Biotechnology Research Center, 3.Iwate Prefectural Agricultural College, 4.Iwate Agricultural Research Center, 5.Faculty of Agriculture , Iwate University, 6.Agri-Innovation Center, Iwate University)	509	Fertility-related QTL and segregation distortion in tetraploid rice ☆Kimura, H., S. Bang, T. Ohnishi (Grad. Reg. Cre. Sci., Utsunomiya U.)	609	The impact of a partial chromosome duplication on the <i>Arabidopsis thaliana</i> genome ☆Nishijima, R.1, J. Fawcett2, T. Sakamoto3, Y. Uga1, T. Hyodo1, K. Sugita1, T. Ikoma1, Y. Tsujimoto-Inui4, H. Tanaka5, T. Itoh5, T. Abe6, S. Matsunaga4, Y. Kazama1,6 (1.Grad. Sch. Biosci. Biotech., Fukui Pref. Univ., 2.RIKEN iTHEMS, 3.Dept. Sci., Kanagawa Univ., 4.Grad. Sch. Front. Sci., Univ. Tokyo, 5.Sch. Life Sci. Tech., Tokyo Tech. Univ., 6.RIKEN Nishina Cent.)	11:15	
	209	Post-transcriptional control by the RNA-binding protein PLA2 in rice plastochron regulation. ○Mimura, M.1, K. Nonomura2, J. Itoh1 (1.Grad. Sch. Agri. & Life Sci., Univ. Tokyo, 2.Natl. Inst. Genet., NIG)											
11:30	110	Development of DNA markers for sweetpotato steamed tuber texture by polyplid QTL-seq ○Yamakawa, H.1, T. Mizubayashi1, M. Tanaka2 (1.NICS, NARO, 2.KARC, NARO)	210	Structural and genetic basis of water repellency in rice leaves ○Hiraiwa, A.1, S. Aiga1, T. ZHU1, Y. Sato2, ○J. Itoh1 (1.Grad. Sch. Agric. Life Sci., Univ. Tokyo, 2.Natl. Inst. Genet.)	310	Cool summer damage and its mitigating measures of rice in Northern Japan caused by the huge volcanic explosive eruptions in the Northern Hemisphere ○KATO, H. (Tokyo University of Agriculture, Department of Agricultural Innovation for Sustainable Society)	410	Development of Smart Technology for Cabbage Utilizing Hyperspectral Camera ○Yamagiwa, Y., t. Ohishi (Shizuoka Pref. Inst. of Agri. & Forestry)	510	Genome-wide analysis of segregation distortion in progenies of an inter-specific hybrid tetraploid rice ☆Oka, T.1, T. Furuta1, K. Kashihara1, H. Mu1, Y. Kishima2, K. Nagaki1, T. Yamamoto1 (1.IPSR, Grad. Sch. Environ. Life Nat. Sci., Okayama Univ., 2.Grad. Sch. Agr., Hokkaido Univ.)	610	Live cell imaging of pollen mitosis in wheat to reveal chromosome breakage patterns induced by gametocidal genes ☆Usumoto, S.1, K. Murata1, H. Kakui2, Y. Sato3, S. Nasuda1 (1.Grad. Sch. Agric., Kyoto Univ., 2.Grad. Sch. Agric. Life Sci., Univ. Tokyo, 3.WPI-ITbM, Nagoya Univ.)	11:30
11:45	111	Construction of genetic linkage map in tetraploid blueberry through dpMIG-seq-based genotyping ☆Nagasaki, K.1, K. Nishimura1,2, K. Yamagata1, S. Nishiyama1, H. Yamane1, R. Nakano1, T. Nakazaki1,3 (1.Grad. Sch. Agr., Kyoto Univ., 2.Grad. Sch. Environ. Life. Sci. and Tech., Okayama Univ., 3.Office IAC, Kyoto Univ.)	211	Analysis of 3D growth pattern in primordia of rice husk ☆Miura, S.1, Y. Tokuyama1, M. Taguchi2, Y. Kishima3, Y. Koide3 (1.Graduate School of Agriculture, Hokkaido University, 2.Faculty of Agriculture, Hokkaido University, 3.Research Faculty of Agriculture, Hokkaido University)			411	Verification of rice cultivation in artificial environments using meteorological data and investigation of impact of future global warming ○Itoh, H.1, H. Yamashita2, K. Wada3, J. Yonemaru3 (1.Institute of Crop Science, NARO, 2.Faculty of Agriculture, Sizuoka University, 3.Research Center of Agricultural Information, NARO)			11:45		
12:00													
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Chair: Tomoyuki Furuta (Okayama Univ.)		Chair: Hiroyuki Tsuji (Nagoya Univ.)		Chair: Takayoshi Ishii (Tottori Univ.)		Chair: Yoshiaki Inukai (Nagoya Univ.)		Chair: Katsunori Tanaka (Hirosaki Univ.)		Chair: Hiromi Kajiyama-Kanegae (NARO)	
112	Development of breeding selection markers for soybeans and allelic diversity among cultivars bred by the Nagano breeding team. ○Ogiso-Tanaka, E. I., K. Seki2 (I.Ctr. Mol. Biodivers. Res., Natl. Mus. Nat. Sci., 2.Nagano Veg. & Orna. Crops Exp. Sta.)	212	Identification of genes contributing to high florigen expression capacity in radish. ☆Motoki, K. I., K. Nishimura1, M. Kashima2, T. Nakazaki3, R. Nakano4, M. Hosokawa5,6 (I.Grad. Sch. Environ. Life Nat. Sci. Tech., Okayama Univ., 2.Fac. Sci., Toho Univ., 3.Office of IAC, Kyoto Univ., 4.Grad. Sch. Agr., Kyoto Univ., 5.Fac. Agr., Kindai Univ., 6.Agr. Tech. Innov. Res. Inst., Kindai Univ.)	312	Expression of plastid genes in cultured tissues of barley ○Hisano, H. I., J. Kim1,2, N. Nagata3, R. Matsushima1, S. Fujii4, A. Iwase2, T. Yaeno5, K. Kobayashi6 (I.IPSR, Okayama University, 2.CSRS, RIKEN, 3.Fac. Sci., Japan Women's U., 4.Fac. Agric. Life Sci., Hirosaki U., 5.Grad. Sch. Agric., Ehime U., 6.Grad. Sch. Sci., Osaka Metropolitan U.)	412	Does radial oxygen loss from root affect to root elongation during shoot emergence and rice seedling establishment under submergence? ☆Tamaru, S. I.,2, N. Fujiwara3, H. Shiba1,2, K. Shiono1,3 (I.Grad. Sch. Biosci. Biotech., Fukui Pref. Univ., 2.JSPS Research Fellow, 3.Dept. Biosci. Biotech., Fukui Pref. Univ.)	512	Effect of sowing density of a photoperiod sensitive cytoplasmic male sterile line on F1 seed production ○Murai, K. I., H. Tada1, Y. Takenouchi2 (I.Dept. Sust. Agri-Culture, Fukui Pref. U., 2.Agr. Res. Inst., HOKUREN)	612	Genomics and transcriptomics of natural variation in tea catechin biosynthesis. ☆Funakawa, N. I., H. Yamashita1,2,3,4, Y. Ishiguro3, J. Kawaki5, T. Ikka1,2,3,4,6 (I.Grad. Agr., Shizuoka Univ., 2.Fac. Agr., Shizuoka Univ., 3.Uni. Agr., Gifu Univ., 4.Res. Inst. Tea Sci., 5.Tea Res. Cent., Shizuoka Pref., 6.Res. Inst. Green Sci. Tech., Shizuoka Univ.)
113	Effects of recurrent selection on genome structure in soybean. ○Yamaguchi, N. I., H. Igarashi2, T. Maruta3, T. Nagayama4, A. Kaga4 (I.Central Agr. Exp. Sta., HRO, 2.Tokachi Agr. Exp. Sta., HRO, 3.Donan Agr. Exp. Sta., HRO, 4.Inst. Crop Sci., NARO)	213	Identification of factors inducing early flowering in ddml mutant of C24 accession in Arabidopsis thaliana ☆Kunita, K., R. Fujimoto (Horticultural Crop Propagation., Grad. Sch. Agri. Sci., Univ. Kobe)	313	Study on production of haploid plants by anther culture and microspore culture in Saintpaulia. ☆Oka, T., Y. Takahara (Nagaoka University of Technology, Materials Science and Bioengineering)	413	Dynamics of barley growth and rhizosphere oxidation under waterlogging using spatiotemporal oxygen imaging ☆Shiba, H. I.,2, Y. Egami3, M. Dannoura4, S. Takanashi5, K. Shiono1 (I.Grad. Sch. Biosci. Biotech., Fukui Pref. Univ., 2.JSPS Research Fellow, 3.Dept. Mech. Eng., Aichi Inst. Tech., 4.Grad. Sch. Agr., Kyoto Univ., 5.Kansai Res. Centre, FFPRI)	513	Breeding of Miyazaki's original vegetable "Hyuga Kabocha" ~ Obtainment of a new variety "Nankyu Black Ball No. 3 Go" by interspecific hybridization ~ ○Chen, L. I.,2, K. Goto2, Y. Iwamoto2, T. Fukuda1, S. Jokan1, K. Horii1, M. Matsuse1, T. Nariki1, R. Kubata1 (I.Fac. Envir. Hort. Sci., Minami Kyushu U., 2.Grad. Sch. Hort. & Food Sci., Minami Kyushu U.)	613	Validation of genomic estimated breeding values in large-scale tea germplasm ☆Ishiguro, Y. I., H. Yamashita1,2,3, J. Kawaki4, A. Nagano5,6, T. Ikka1,2,3,7 (I.Uni. Agr., Gifu Univ., 2.Fac. Agr., Shizuoka Univ., 3.Shizuoka Univ. Res. Inst. Tea Sci., 4.Shizuoka Tea Res. Cent., 5.Fac. Agr., Ryukoku Univ., 6.Inst. Adv. Biosci., Keio Univ., 7.Shizuoka Univ. Res. Inst. Green Sci. Tech.)
114	Development of genomic prediction models to increase the efficiency of tea plant breeding ○Kawaki, J. I., H. Yamashita2,3, Y. Ishiguro4, T. Ikka2,3,5, C. Aoshima1, Y. Suzuki1 (I.Tea Res. Cent., Shizuoka Pref., 2.Fac. Agr., Univ. Shizuoka, 3.Shizuoka Univ. Res. Inst. Tea Sci., 4.Grad. Agr., Univ. Shizuoka, 5.Shizuoka Univ. Res. Inst. Green Sci. Tech.)	214	Detection of candidate locus of PFE1 controlling flowering time in Eustoma ○Kawakatsu, K., N. Fukuta (NIVFS, NARO)	314	Characterization of male sterility found in super-male spinach plants and the search for candidate genes responsible for the trait. ☆Maeda, S. I., H. Hirakawa2, K. Shirasawa3, S. Isobe3, Y. Onodera4 (I.Grad. Sch. Agr., Hokkaido Univ., 2.Fac. Agr., Kyushu Univ., 3.Kazusa DNA Res., 4.Res. Fac. Agr., Hokkaido Univ.)	414	Low nitrate under waterlogging triggers enhancement of root aeration system in rice roots ○Shiono, K., M. Ejiri, Y. Egishi, H. Yoshida, Y. Sawazaki, T. Tsunoda (Fac., Biosci. Biotech., Grad. Sch., Fukui Pref. Univ.)	514	Developing 'Yumemizuho ER': introducing early heading date and partial rice blast resistance into 'Yumemizuho' in Ishikawa Prefecture ☆Takata, M. I.,2, M. Sakemoto1, K. Kontani1, R. Harada2, M. Ino2, K. Nakamura2, H. Hatanaka2, K. Okada2, H. Takagi1 (I.Ishikawa Prefectural University, 2.Ishikawa Agriculture Research Center)	614	Assosiation analysis of metabolomic data in soybean for metabolic pathway and genomic region by metabolome GWAS ☆Hatta, T. I., Y. Fuji2, Y. Toda3, Y. Ichihashi4, Y. Oomori1, Y. Yamasaki1, H. Takahashi5, H. Takanashi1, M. Tsuda6, H. Tsujimoto7, A. Kaga8, M. Nakazono5, T. Fujiwara1, M. Hirai2, H. Iwata1 (I.Grad. Sch. Agr. Life Sci., Univ. Tokyo, 2.RIKEN Ctr. for Sustainable Sci., 3.Institute for Agro-Environmental Sci., NARO, 4.RIKEN BioResource. Res. Ctr., 5.Grad. Sch. Bioagri. Sci., Nagoya Univ., 6.Faculty of Food and Nutritional Sci., Toyo Univ., 7.Arid Land Res. Ctr., Tottori Univ., 8.Inst. Crop Sci., NARO)
115	From QTL Analysis to STS Conversion: The Application of GRAS-Di Technology Suzuki, K. I., T. Kimura1, N. Tada1, T. Furuta2, R. Matsushima2, H. Enokil, ○D. Saisho2 (I.TOYOTA MOTOR CORPORATION, 2.IPSR, Okayama Univ.)	215	Genetic mapping of a novel early-heading QTL with small effects located on chromosome 5H in barley ☆Togai, A. I., Y. Atsuji2, M. Okuma1, K. Nishimura1, Y. Monden1, K. Kato1, H. Nishida1 (I.Grad. Sch. Environ. Life Nat. Sci. Tech., Okayama U., 2.Grad. Sch. Environ. Life Sci., Okayama U.)	315	Analysis of RT98-type cytoplasmic male sterility associated mitochondrial genes in rice ☆Kobayashi, A. I., T. Kazama2, S. Arimura3, K. Toriyama1, K. Igarashi1 (I.Grad. Sch. Agri., Tohoku Univ., 2.Grad. Sch. Agri., Kyushu Univ., 3.Grad.Sch. Agri. Life Sci., Univ. Tokyo)	415	Analysis of the SCARECROW-mediated regulatory mechanisms of the number of root cortical cell layers in rice roots in response to low oxygen ☆Minami, S. I., K. Tsuda2, T. Yamauchi3 (I.Grad. Sch. Bioagr. Sci., Nagoya Univ., 2.National Institute of Genetics, 3.Biosci. Biotech. Center, Nagoya. Univ.)	515	Evaluation of yield phenotypic potential in common buckwheat for genetic improvement of NUS ○Hara, T. I., H. Habara2, S. Njane1, S. Otsuka1, A. Itoh1, K. Ishiguro1, K. Matsushima3 (I.HARC., NARO, 2.Grad. Sch. Sci. Tech., Shinshu Univ., 3.Inst. Agric. Acad. Assy. Fac., Shinshu Univ.)	615	Comparative proteomic analysis of dormant and non-dormant embryos in embryonic dormancy of rice seeds ☆Ishikawa, T. I., K. Murata2, T. Yamada1, M. Kanekatsu1 (I.Grad. Sch. Agr., Tokyo U. Agr. Tec., 2.Toyama Pref. Agr. Forest. Fish. Res. Cent.)
116	Identification of QTLs controlling regrowth ability in sorghum ○Takanashi, H., Y. Yamazaki, J. Yamada, M. Ishimori, N. Tsutsumi (Grad. Sch. Agric. Life Sci., Univ. Tokyo)	216	Extremely short period of photoperiod sensitive phase contributes to photo-insensitivity and low temperature tolerance in photo-insensitive rice varieties. ☆Sakaguchi, S. I., M. Hoque1, Y. Kishima2 (I.Graduate School of Agriculture, Hokkaido University, 2.Research Faculty of Agriculture, Hokkaido University)	316	Engineering tomato fertility restoration lines by mutagenesis and identification of fertility restoration genes ☆Kuwabara, K. I., R. Nakajima2, A. Van Bosstraeten2, K. Ezura3,4, K. Toriyama1, T. Arizumi4, K. Shirasawa5 (I.Grad. Sch. Agric. Sci., Tohoku Univ., 2.Grad. Sch. Sci. and Tech., Univ. Tsukuba, 3.JIRCAS, 4.Fac. Life Env. Sci., Univ. Tsukuba, 5.Kazusa DNA Res. Inst.)	416	Tissue-specific regulation of strigolactone biosynthesis in rice roots under phosphate starvation ☆Morishita, H. I., K. Sumi1, R. Sugita2, T. Suzuki3, T. Izawa4, K. Yoneyama5, T. Yamauchi6 (I.Grad. Sch. Bioagr. Sci., Nagoya Univ., 2.Radioisotope Res. Center, Nagoya Univ., 3.Grad. Sch. Biosci. Biotech., Chubu Univ., 4.Grad. Sch. Agric. Life Sci., Univ. Tokyo, 5.Res. Dev. Bureau, Saitama Univ., 6.Biosci. Biotech. Center, Nagoya Univ.)	516	Effect of loci related to total soluble solids in the Japanese netted melon and their origin ☆Yamanaka, M. I., N. Sato1, G. Shigita2,3, M. Okuma4, R. Ishikawa1, H. Nishida4, K. Kato4, K. Tanaka1 (I.Fac. Agr. Life Sci., Hirosaki Univ., 2.Tech. Univ. Munich, 3.Life Environ. Sci., Univ. Tsukuba, 4.Grad. Sch. Environ. Life Nat. Sci. Tech., Okayama Univ.)	616	Canceled

14:30	I17 Identification of novel QTLs controlling gibberellin sensitivity during internode elongation in <i>Oryza Sativa L.</i> ☆Mizushima, M. I., R. Sampei1, V. Reyes1, K. Doi1, K. Nagai2, M. Ashikari2 (1.Graduate School of Bioagricultural Sciences, Nagoya University, 2.Bioscience and Biotechnology Center, Nagoya University)	217 Genetic analysis of heading date variation in bread wheat using a large segregating population with loss of function of PCL1 ☆Tamura, T., K. Nishimura, A. Togoi, Y. Monden, K. Kato, H. Nishida (Grad. Sch. Environ. Life Nat. Sci. Tech., Okayama U.)	317 Details of Rf-like PPR genes cluster in the fertility restorer line, RT98C derived from wild rice <i>O. rufipogon</i> W1109. ☆Igarashi, K. I., A. Kobayashi1, T. Kazama2, K. Toriyama1 (1.Grad.Sch. Agri. Sci., Tohoku Univ., 2.Grad. Sch. Agri., Kyushu Univ.)	417 Effects of acid or alkaline soils on agronomic traits in barley ☆Shirato, H. I., D. Saisho1,2, H. Hisano1,2 (1.Grad. Sch. Environ. Life Sci. Nat., Okayama Univ., 2.IPSR, Okayama Univ.)	517 Estimating fruit traits QTLs in two Japanese melon landraces of Makawa and Conomon ☆Nakajima, K. I., G. Shigita2,3, M. Okuma4, R. Ishikawa1, H. Nishida4, K. Kato4, K. Tanaka1 (1.Fac. Agr. Life Sci., Hiroshima Univ., 2.Tech. U. Munich, 3.Life Environ. Sci., Univ. Tsukuba, 4.Grad. Sch. Environ. Life Nat. Sci. Tech., Okayama U)	Chair: Hiroki Takagi (Ishikawa Pref. Univ.)	617 A time-lapse transcriptomic approach uncovers transitions of the regulatory networks in kiwifruit ripening. ☆Kuwada, E., S. Higashiyama, T. Matsuda, K. Ushijima, T. Akagi (Grad. Sch. Environ. & Life Sci, Okayama University)	14:30	
14:45	I18 Genome-wide association study and haplotype analysis of sulfur nutrition in rice ☆Yamada, I. I., C. Zhang1, H. Maruyama1, M. Dwiyanti1, N. Tanaka2, M. Shenton2, T. Shinano1, T. Watanabe1 (1.Grad. Sch. Agr., Univ. Hokkaido, 2.Inst. Crop Sci., NARO)	218 Wheat cultivation in a plant factory with artificial lighting (I): Comparison of yield-related traits with conventional cultivation ☆Kuroki, K. I., S. Yoshioka2, M. Takeyama3, W. Guo4, S. Nasuda2 (1.Grad. Sch. Sci., Univ. Tokyo, 2.Grad. Sch. Agric., Kyoto Univ., 3.PLANTX Corp., 4.Grad. Sch. Agr. Life Sci., Univ. Tokyo)	318 Organelle Genome-Specific Random Mutagenesis Technology by Artificial Fusion Proteins. Detailed analysis of T1 and evaluation of mutation inheritance ☆Kosaka, N. I., Y. Harada1, I. Nakazato1, M. Okuno2, T. Itoh3, N. Tsutsumi1, S. Arimura1 (1.Grad. Sch. Agri. and Life Sci., Univ. Tokyo, 2.Sch. Med., Univ. Kurume, 3.Sch. Life Sci. and Tech., Tokyo Inst. Tech.)	418 Mapping of the quantitative trait locus Na-QTL1, involved in the Na ⁺ exclusion from leaf blades of rice under salinity stress. ☆Ishii, Y. I., R. Ishikawa2, N. Kobayashi3, H. Matsumura4, Y. Amarasinghe5, K. Tanoi3, T. Ishii2, T. Horie1 (1.Grad. Sch., Div. Appl. Biol., Shinshu Univ., 2.Grad. Sch., Agric Sci., Kobe Univ., 3.Grad. Sch., Agric. Life Sci., Univ. Tokyo, 4.Grad. Sch. Sci. Tech., Shinshu Univ., 5.GLORDC, Sri Lanka)	518 Production of a <i>Staphylococcus aureus</i> -specific antimicrobial protein lysostaphin in rice and evaluation of its amount among different subcellular localization ☆Kayukawa, H., S. Shimoda, H. Yoneyama, Y. Ito (Grad. Sch. Argi., Tohoku Univ.)			14:45	
15:00	I19 QTL analysis of hull color of a red rice variety 'Kanniho' ☆Mizutani, T. I., M. Ikeda1, K. Nishimura2, E. Tanesaka1, T. Tsukiyama1 (1.Fac. Agr., Kindai Univ., 2.Grad. Sch. Environ. Life. Nat. Sci. Technol., Okayama Univ.)	219 Projection of heat-induced spikelet sterility of rice and evaluation of breeding strategies with micrometeorology model ☆Toda, Y., Y. Ishigooka, M. Yoshimoto, M. Nishimori, T. Takimoto, T. Kuwagata, T. Hasegawa (Inst. Agro-Env. Sci., NARO)	319 Exploring <i>Nicotiana benthamiana</i> FT gene ☆FURUKAWA, N. I., K. Kurotani2, K. Kobayashi1, M. Notaguchi2,3, H. Kayal (1.Agr., Univ. Ehime, 2.Biosci. Biotech. Center, Univ. Nagoya, 3.Grad. Sch. Sci., Univ. Kyoto)	419 Cell physiological roles of lupeol and betulinic acid accumulated in secondary aerenchyma of soybean ☆Jitsui, M. I., C. Abo1, M. Fanani2, T. Oi3, A. Agata1, T. Muranaka2, M. Nakazono1, H. Seki2, H. Takahashi1 (1.Grad. Sch. Bioagri. Sci., Nagoya Univ., 2.Grad. Sch. Eng., Osaka Univ, 3.Sch. Eng. Sci., Kochi Univ. Tech.)	519 Towards agricultural utilization of non-flowering rice ☆Miyazaki, K., M. Suzuki, N. Nishide, S. Hashimoto, R. Morita, N. Aoki, T. Izawa (Grad. Sch. Agr. Life Sci., Univ. Tokyo)	619 Construction of an RNA-seq database for pearl millet and its application to functional analysis of pearl millet genes ☆Kambara, K. I., M. Qazi1, S. Gupta2, T. Takano1, D. Tsugami1 (1.Grad. Sch. Agr., Univ. Tokyo, 2.ICRISAT)	15:00		
15:15	I20 Comparison of k-mer analysis and Southern blot analysis for confirmation of residual foreign DNA in genome-edited rice lines submitted for registration. ○Komatsu, A. I., M. Ohtake1, C. Kanehara1, H. Sakai2 (1.Institute of Agrobiological Sciences, National Agriculture and Food Research Organization, 2.Research Center for Advanced Analysis, National Agriculture and Food Research Organization)	220 The impact of global warming on agriculture in Japan, including rice farming, and its associated increases of precipitation and solar radiation. ☆Honda, K., H. Kato (Tokyo University of Agriculture, Agricultural Innovation for Sustainability)	320 Phenotypic diversity of Ricewheat caused by interaction between rice-wheat hybrid mitochondria and wheat nucleus ☆Sugiura, R. I., H. Tarutani1, N. Kamal2, M. Tety3,4, T. Okamoto3, T. Ishii2,5 (1.Grad. Sch. Sustainability Sci., Univ. Tottori, 2.IPDRE, Univ. Tottori, 3.Grad. Sch. Sci., Univ. Tokyo Metro, 4.Grad. Sch. Math., Univ. Indonesia, 5.ALRC, Univ. Tottori)	520 Origin of a transposon inserted in the 5' UTR of the ROL barrier formation 1 gene in <i>Zea sp.</i> ☆Shishido, K. I., K. Ide1, H. Takahashi1, A. Agata1, H. Takahashi2, F. Omori3, Y. Mano3, M. Nakazono1 (1.Grad. Sch. Bioagric. Sci., Univ. Nagoya, 2.Fac. Food Agri. Sci., Fukushima Univ., 3.Inst. Livest. Grassl. Sci., NARO)	620 Pedigree data analysis using "Pedigree Finder" - visualization of multiple-trait transmission and development of distributed version - ○Kajiy-Kanegae, H. I.,2, K. Matsushita2, J. Yonemaru1 (1.RCAIT, NARO, 2.NICS, NARO)	15:15			
15:30	I21 Inheritable C-to-T base editing in the rice chloroplast genome ☆Nakazato, I., J. Yamada, N. Tsutsumi, S. Arimura (Grad. Sch. Agri. Life Sci., Univ. Tokyo)	221 Effect of two genes (Qsd1 and Qsd2) on pre-harvest sprouting tolerance and malting characteristics. ○Kihara, M., T. Zhou, M. Shibamura, M. Nanamori, K. Koie, T. Hoki (Crop Research Laboratories, SAPPORO BREWERIES LTD.)	521 Variation in flowering traits in Taro (<i>Colocasia esculenta</i> Schott) cultivars in relation to vegetative traits and phylogeny ☆Iijima, Y. I., Y. Mitsui1, T. Konishi2 (1.Grad. Sch. Agric., Tokyo Univ. Agric., 2.Res. Inst. Evol. Biol.)	15:30					
15:45									