

## JSB144 Poster presentations

17 September (Odd Numbers 9:00-10:00, Even Numbers 10:00-10:00)

<b>P001</b>	Validation of QTL and epistatic QTL mapping using SHAP	☆Ishibashi, T., A. Onogi (Faculty of Agr., Ryukoku Univ.)
<b>P002</b>	Establishment of speed breeding method for rapids production of interspecific <i>Pennisetum</i> hybrids	☆Terada, K. <sup>1</sup> , T. Ishii <sup>2</sup> , S. Sakuma <sup>3</sup> (1.Grad. Sch. of Sustainability Sci., Univ.Tottori, 2.Arid Land Research Center., Univ.Tottori, 3.Agr., Univ.Tottori)
<b>P003</b>	Production and analysis of multiple genome editing rice using an original plasmid set and a method for high-density crop hydroponics in a plant incubator	○Kuroda, M., T. Oikawa (Inst. Agrobiol. Sci. NARO)
<b>P004</b>	Utilizing gibberellin treatment for scion elongation in Brassicaceae Plant grafting techniques	☆Hara, M., M. Nishikawa, T. Segawa, R. Kumazawa, S. Saiga, M. Yoshizumi, H. Takagi (Ishikawa Prefectural University)
<b>P005</b>	Relationship between relative illuminance and yield using soybean lines derived from Japanese-American hybridization.	○Yamada, T. <sup>1</sup> , A. Onogi <sup>2</sup> , K. Hirata <sup>1</sup> , A. Hishinuma <sup>3</sup> , K. Takahashi <sup>1</sup> , Y. Nanjo <sup>1</sup> , J. Yonemaru <sup>4</sup> (1.Inst. Crop. Sci., NARO, 2.Fac. Agric., Ryukoku Univ., 3.Tohoku Agric. Res. Cent., NARO, 4.Res. Cent. Agric. Info. Tech., NARO)
<b>P006</b>	Fusion of UAV remote sensing data and hand-measured data based on a nonlinear growth model	☆Fukumoto, Y. <sup>1</sup> , T. Chen <sup>2,8</sup> , Y. Toda <sup>2</sup> , Y. Oomori <sup>2</sup> , Y. Yamasaki <sup>3</sup> , H. Takahashi <sup>4</sup> , H. Takanashi <sup>2</sup> , M. Tsuda <sup>5</sup> , M. Hirai <sup>6</sup> , H. Tsujimoto <sup>3</sup> , A. Kaga <sup>7</sup> , M. Nakazono <sup>4</sup> , T. Fujiwara <sup>2</sup> , H. Iwata <sup>2</sup> (1.Fac. Agr., Univ. of Tokyo, 2.Grad. Sch. Agr. Life Sci., Univ. Tokyo, 3.Arid Land Res. Ctr., Tottori Univ., 4.Grad. Sch. Bioagri. Sci., Nagoya Univ., 5.T-PIRC, Univ. Tsukuba, 6.Ctr. for Sustainable Resource Sci., RIKEN, 7.Inst. Crop Sci., NARO, 8.Inst. Vegetable and Floriculture Sci., NARO)
<b>P007</b>	Exploration of environments for evaluating traits of high-yielding rice cultivars using growth chambers.	☆Wada, K., H. Yamashita, J. Yonemaru, H. Itoh (Inst. Crop. Sci., NARO)
<b>P008</b>	Breeding new strawberry varieties "oonoaguri81ou18-166" and "oonoaguri81ou18-547" for fresh eating with large and high yields.	○Tamaki, M., M. Morino, R. Tamaki, S. Sano, W. Hashimoto (Oono Development Co., Ltd.)
<b>P009</b>	Establishment of an ovule culture system to enhance the utilization of cowpea genetic resources via wide crosses	☆OFEM, N., T. Ishii <sup>2</sup> (1.Grad. Sch. of Sus. Sci., Tottori University, 2.Arid Land Research Center., Univ.Tottori)
<b>P010</b>	Soybean cultivar "Sumisayaka" for soymilk.	○Takada, Y., K. Komatsu, T. Sayama, K. Yamashita, M. Saruta (WARC, NARO)
<b>P011</b>	Metaborome analysis in <i>Leymus racemosus</i> addition lines of common wheat	☆Ono, T. <sup>1</sup> , M. Kishii <sup>2</sup> , M. Hirai <sup>3</sup> , H. Tsujimoto <sup>4</sup> , M. Okamoto <sup>1,3,5</sup> (1.Univ. Utsunomiya, 2.JIRCAS, 3.CSRS., RIKEN, 4.Univ. Tottori, 5.Univ. Yokohama City)
<b>P012</b>	RE:phenotyping analysis of visible characteristics from the large mutant pools of the NBRP-Tomato.	○Sugimoto, K., Y. Fujimori, T. Ariizumi, H. Ezura (Univ. Tsukuba, T-PIRC)
<b>P013</b>	Project on Prof. Masatake Tanaka's archival materials and links to wheat genetic resources	○Ohta, A. <sup>1,2</sup> , M. Nitta <sup>1,2</sup> , A. Saito <sup>3</sup> , M. Hirazawa <sup>3</sup> , Y. Matsuoka <sup>4</sup> , K. Kawaura <sup>5</sup> , S. Ohta <sup>6</sup> , Y. Ishikawa <sup>1</sup> , K. Yoshida <sup>1,2</sup> , S. Nasuda <sup>1,2</sup> , R. Terauchi <sup>1,2</sup> (1.Grad. Sch. Agri., Kyoto Univ., 2.NBRP-Wheat, 3.Kyoto Univ. Museum, 4.Grad. Schl. Agri. Sci., Kobe Univ., 5.KIBR, Yokohama City Univ., 6.Professor emeritus, Fukui Pref. Univ.)
<b>P014</b>	Gene structure analysis of the <i>Puroindoline</i> gene in hard grain mutants of the bread wheat cultivar "Fukui-kendai3(Fukukomugi)"produced by heavy ion-beam	☆Fueki, R. <sup>1</sup> , M. Hatashita <sup>2</sup> , K. Murai <sup>1</sup> (1.Grad.Sch.Biosci.Biotech.,Fukui Pref. Univ, 2.Wakasa Wan Energy Research Center)

<b>P015</b>	System to 'back up' biological resources in IBBP center	○Tsugane, K., A. Kato, N. Matsubayashi, C. Tsuzuki, A. Hamatani, K. Naruse (National Institute for Basic Biology, IBBP)
<b>P016</b>	QTL analysis of fruit morphology and sex expression in a population between two varieties in melon	☆Nashiki, A. <sup>1</sup> , H. Matsuo <sup>1</sup> , K. Takano <sup>1</sup> , S. Isobe <sup>2</sup> , K. Shirasawa <sup>2</sup> , Y. Yoshioka <sup>3</sup> (1.Grad. Sch. Science & Tech., Univ. Tsukuba, 2.Kazusa DNA Research Institute, 3.Inst. Life Env. Sci., Univ. Tsukuba)
<b>P017</b>	The geographic distribution of <i>WAPO-A1</i> genotypes controlling spikelet number per spike and <i>GNI-A1</i> genotypes controlling floret fertility in wheat.	☆Kasama, M., K. Takahashi, K. Tanaka, M. Kawase, Z. Nishio (Grad. Sch. Agr., Tokyo Univ. Agr)
<b>P018</b>	Dough Property and Protein Composition of "Tousan 57" and "Tousan 62", Successor Candidate Lines of Wheat for Hard Bread "Yumekaori"	☆Nakazawa, R. <sup>1</sup> , T. Ikeda <sup>2</sup> , H. Maezima <sup>1</sup> (1.Agr. Exp. Sta., Nagano. Pref, 2.WARC., NARO)
<b>P019</b>	Effect of red pericarp extract on anti-bacterial ability in wild rice ( <i>Oryza rufipogon</i> )	☆Iwamoto, H., A. Onoda, M. Shioda, R. Ishikawa, T. Ishii (Grad. Sch. Agri. Sci., Kobe Univ.)
<b>P020</b>	Genetic analysis of foxtail millet leaf sheath pigmentation and geographic distribution of its variants	☆Tsuji, M. <sup>1</sup> , S. Matsuyama <sup>2</sup> , K. Itou <sup>3</sup> , K. Oikawa <sup>3</sup> , A. Abe <sup>3</sup> , K. Fukunaga <sup>1</sup> (1.Grad. Sch. Arts and Sci., Pref. Univ. Hiroshima, 2.Life and Envi. Sci., Pref. Univ. Hiroshima, 3.Iwate Biotech. Res. Center)
<b>P021</b>	Genetic analysis of domestication-associated traits of spike and plant type using backcross derived lines in emmer wheat.	☆Morioka, M. <sup>1</sup> , S. Kasubuchi <sup>1</sup> , S. Shimada <sup>1</sup> , K. Gyu <sup>1</sup> , C. Vladutu <sup>1</sup> , S. Kianian <sup>2</sup> , N. Mori <sup>1</sup> (1.Grad. Sch. Agr. Sci., Kobe U., 2.USDA-ARS, Univ. Minnesota, U.S.A)
<b>P022</b>	Estimation of a novel locus associated with seed-shattering degree in African cultivated rice, <i>Oryza glaberrima</i>	☆Yamazaki, M. <sup>1</sup> , A. Maeda <sup>1</sup> , S. Lim <sup>1</sup> , T. Ishii <sup>1</sup> , Y. Yamagata <sup>2</sup> , Y. Koide <sup>3</sup> , D. Fujita <sup>4</sup> , R. Ishikawa <sup>1</sup> (1.Grad. Sch., Agr. Sci., Kobe Univ., 2.Fac. Agr. Grad. Sch., Kyushu Univ., 3.Grad. Sch. Agr., Hokkaido Univ., 4.Fac. Agr., Saga Univ.)
<b>P023</b>	A mutant line with lower pasting temperature of endosperm starch than the rice variety "Ichihomare".	☆Nakaoka, F. <sup>1,2</sup> , A. Kobayashi <sup>1</sup> , S. Watanabe <sup>1</sup> , Y. Morozumi <sup>1</sup> , Y. Machida <sup>1</sup> , G. Chaya <sup>1</sup> , K. Miura <sup>3</sup> , M. Yamasaki <sup>2</sup> (1.Fukui Agr. Exp. Stn., 2.Niigata Univ., 3.Fukui Pref. Univ.)
<b>P024</b>	Evaluation of basic morphological characters and variation analysis of red pigment synthesis gene in safflower genetic resources	☆Hosono, K. <sup>1</sup> , H. Suzuki <sup>2</sup> , S. Kimura <sup>2</sup> , T. Sasanuma <sup>1,2</sup> (1.Grad. Sch. Agr., Yamagata Univ., 2.Fac. Agr., Yamagata Univ.)
<b>P025</b>	Genetic analysis of yield-related traits on the long arm of chromosome 4 derived from <i>Oryza longistaminata</i>	○Hirabayashi, H. <sup>1</sup> , K. Matsubara <sup>1</sup> , S. Fukuoka <sup>1,2</sup> , Y. Takeuchi <sup>1</sup> , K. Sugimoto <sup>1</sup> (1.Inst. of Crop Sci., NARO, 2.Core Technology Research Headquarters, NARO)
<b>P026</b>	Using next-generation sequencing to identify homoeologous recombination sites in Brassica napus.	☆Kumazawa, R., T. Segawa, M. Hara, S. Saiga, M. Yoshizumi, H. Takagi (Ishikawa Prefectural University)
<b>P027</b>	Whole genome sequence comparison between three wild soybeans from Japan against reference genomes Williams 82( <i>Glycine max</i> ) and W05( <i>G. soja</i> )	☆Nishimura Carmo, E. <sup>1</sup> , M. Dwiyaniti <sup>2</sup> (1.Hokkaido University, Grad. Sch. Agr., 2.Hokkaido University, Res. Fac. Agr.)
<b>P028</b>	The development and efficient utilization of molecular markers for the major quantitative trait locus of bacterial wilt resistance in potato	○Habe, I., Y. Sakamoto, K. Matsumoto (Nagasaki Agri. Fore. Tech. Dev. Ctr.)
<b>P029</b>	Development of a rapid and simple protocol for construction of MIG-seq library using unpurified DNA	☆Nishimura, K. <sup>1</sup> , K. Motoki <sup>1</sup> , K. Nagasaka <sup>2</sup> , R. Takisawa <sup>3</sup> , Y. Chang <sup>2</sup> , T. Mori <sup>2</sup> , R. Nakano <sup>2</sup> , T. Nakazaki <sup>2</sup> (1.Grad. Sch. Environ. Life Nat. Sci. Tech., Okayama Univ., 2.Grad. Sch. Agr., Kyoto Univ., 3.Fac. Agr., Ryukoku Univ.)

<b>P030</b>	Development of imputation and correction algorithms for marker genotype data using graph theory and hidden Markov models	○Inamori, M. <sup>1</sup> , M. Minamikawa <sup>1,2</sup> , T. Shimizu <sup>3</sup> , M. Kuniyama <sup>3</sup> , K. Nonaka <sup>3</sup> , S. Moriya <sup>3</sup> , K. Abe <sup>3</sup> , H. Iwata <sup>1</sup> (1.The University of Tokyo, Graduate School of Agricultural and Life Sciences, 2.Chiba University, Institute for Advanced Academic Research, 3.National Agriculture and Food Research Organization, Institute of Fruit Tree and Tea Science)
<b>P031</b>	Genome-wide association study for strawberry anthracnose resistance using multiple isolated populations and validation of SNP markers	○Taguchi, M. <sup>1</sup> , Y. Kashiwaya <sup>1</sup> , S. Yasuno <sup>1,2</sup> , T. Abe <sup>1,3</sup> , A. Toyoda <sup>1</sup> , T. Shigeno <sup>1,4</sup> , Y. Nakazawa <sup>1,5</sup> (1.Tochigi Pref. Agric. Exp. Stn., 2.Haga Agric. Promotion Office, 3.Tochigi Agric. Prod. Mktg. Assoc., 4.Tochigi Pref. Govt. Mgm. Technol. Dept, 5.Shimotsuga Agric. Promotion Office)
<b>P032</b>	Development of Recombinant Inbred Lines (RILs) and construction of a linkage mapping between <i>Setaria italica</i> and <i>S. viridis</i> using GRAS-Di technology	☆Watanabe, I. <sup>1</sup> , S. Nakamura <sup>2</sup> , Y. Monden <sup>3</sup> , K. Fukunaga <sup>1</sup> (1.Fac. Biores. Sci., Pref. U. Hiroshima, 2.Sch. Agr., Okayama U., 3.Grad. Sch. Environ. Life Nat. Sci. Tech., Okayama U.)
<b>P033</b>	Phenotypic evaluation and genetic mapping of seminal root angle in the Japanese Wheat Core Collection	☆Nakano, Y. <sup>1</sup> , K. Nishimura <sup>2</sup> , R. Nishijima <sup>1</sup> (1.Facul. Biosci. Biotech., Fukui Pref. U., 2.Grad. Sch. Environ. Life Nat. Sci. Tech., Okayama U.)
<b>P034</b>	Mutant alleles of <i>Tof11</i> are frequently detected in early-planting adaptable Japanese summer type soybeans	○Komatsu, K., T. Sayama, K. Yamashita, Y. Takada (Western Region Agricultural Research Center, NARO)
<b>P035</b>	Identification of QTLs for grain yield-related traits using three connected segregating mapping populations of tetraploid wheat ( <i>Triticum turgidum</i> L.)	☆Chen, T. <sup>1</sup> , K. Nishimura <sup>2</sup> , K. Nagasaka <sup>1</sup> , Y. Iwahashi <sup>1</sup> , K. Murata <sup>1</sup> , T. Maki <sup>1</sup> , Y. Kinoshita <sup>1</sup> , H. Inoue <sup>1</sup> , R. Nakano <sup>1</sup> , T. Nakazaki <sup>1</sup> (1.Grad. Sch. Agr., Kyoto Univ, 2.Grad. Sch. Environ. Life Nat. Sci. and Tech., Okayama Univ.)
<b>P036</b>	Simultaneous selection for multiple fruit traits using genomic selection and GWAS in strawberry.	○Toyoda, A. <sup>1</sup> , Y. Kashiwaya <sup>1</sup> , Y. Matsushima <sup>1</sup> , S. Yasuno <sup>1,2</sup> , A. Inaba <sup>1</sup> , S. Isobe <sup>3</sup> , K. Shirasawa <sup>3</sup> , M. Sato <sup>3</sup> , E. Yamamoto <sup>3</sup> , K. Tasaki <sup>1</sup> , K. Iimura <sup>1,4</sup> , T. Shigeno <sup>1,5</sup> , Y. Nakazawa <sup>1,4</sup> (1.Tochigi Pref.Agric.Exp.Stn, 2.Haga Agric. Promotion Office, 3.Kazusa DNA Res. Inst., 4.Shimotsuga Agric. Promotion Office, 5.Agricultural Management Division)
<b>P037</b>	Exploration of genes responsible for monogerm seeds by genome wide association study (GWAS) in Japanese sugar beet ( <i>Beta vulgaris</i> L.).	○Kitazaki, K. <sup>1</sup> , K. Hiroki <sup>1</sup> , T. Narihiro <sup>2</sup> , H. Matsuhira <sup>2</sup> , T. Kubo <sup>1</sup> , Y. Kuroda <sup>2</sup> (1.Res. Fac. Agri., Hokkaido Univ., 2.HARC, NARO)
<b>P038</b>	Consideration of using modified MIG-seq and re-evaluation of ethylene synthesis related loci in melon	○Kageyama, R. <sup>1</sup> , K. Nishimura <sup>1</sup> , R. Nakano <sup>2</sup> , K. Ikeda <sup>3</sup> , K. Kato <sup>1</sup> , Y. Kubo <sup>1</sup> , T. Akagi <sup>1</sup> , K. Ushijima <sup>1</sup> (1.Grad. Sch. Environ. Life Nat. Sci. Tech., Univ. Okayama, 2.Grad. Sch. Agr., Univ. Kyoto, 3.Fac. Agr., Univ. Yamagata)
<b>P039</b>	Re-sequencing analysis of genes involved in specialized metabolisms in tea cultivars.	☆Funakawa, N. <sup>1</sup> , H. Yamashita <sup>2,3</sup> , Y. Ishiguro <sup>1</sup> , J. Kawaki <sup>4</sup> , T. Ikka <sup>2,3,5</sup> (1.Grad. Agr., Univ. Shizuoka, 2.Fac. Agr., Univ. Shizuoka, 3.Shizuoka Univ. Res. Inst. Tea Sci., 4.Shizuoka Tea Res. Cent., 5.Shizuoka Univ. Res. Inst. Green Sci. Tech.)
<b>P040</b>	Development of high-quality/yield DNA extraction methods adaptable to long-read sequencing from crop seeds	☆Shioya, N. <sup>1</sup> , E. Ogiso-Tanaka <sup>2</sup> , M. Watanabe <sup>1</sup> , T. Anai <sup>3</sup> , T. Hoshino <sup>1</sup> (1.Grad. Sch. Agr., Yamagata Univ., 2.Ctr. Mol. Biodivers. Res., Natl. Mus. Nat. Sci., 3.Grad. Sch. Agri., Kyusyu Univ.)

<b>P041</b>	Enhancing alignment accuracy in RNA-seq analysis for allopolyploid plants	☆Saiga, S., T. Segawa, R. Kumazawa, M. Hara, M. Yoshizumi, K. Fukuoka, H. Takagi (Ishikawa Prefectural University)
<b>P042</b>	Gene identification and characterization of days to heading in mutant lines of glutinous rice variety "Hiyokumochi" ( <i>Oryza sativa</i> L.)	☆YA, M. <sup>1</sup> , T. ANAI <sup>2</sup> , S. Zheng <sup>1</sup> , D. Fujita <sup>1</sup> (1.Grad. Sch. Agr., Saga Univ., 2.Grad. Sch. Agr., Kyushu Univ.)
<b>P043</b>	Dosage effect and heterosis of QTLs predicted by GWAS of segregation progenies from interspecific hybrid tetraploid rice	Oka, T. <sup>1</sup> , T. Furuta <sup>1</sup> , H. Mu <sup>1</sup> , K. Kashihara <sup>1</sup> , K. Nagaki <sup>1</sup> , Y. Kishima <sup>2</sup> , ○T. Yamamoto <sup>1</sup> (1.IPSR, Grad. Sch. Environ. Life Sci., Okayama Univ., 2.Grad. Sch. Agr., Hokkaido Univ.)
<b>P044</b>	Comparison of gene expression profiles between interspecific tetraploid rice and its cultivated rice parents	☆MU, H. <sup>1</sup> , T. Furuta <sup>1</sup> , T. Oka <sup>1</sup> , K. Nagaki <sup>1</sup> , Y. Kishima <sup>2</sup> , T. Yamamoto <sup>1</sup> (1.IPSR, Grad. Sch. Environ. Life Sci., Okayama Univ., 2.Grad. Sch. Agr., Hokkaido Univ.)
<b>P045</b>	Transcriptome analysis to elucidate the high sugar content of sorghum juice using multiple reference genome sequences.	☆Okada, S. <sup>1</sup> , M. Ikezaki <sup>2</sup> , S. Hashimoto <sup>3,4</sup> , T. Kikuchi <sup>2</sup> , S. Araki-Nakamura <sup>1</sup> , K. Ohmae-Shinohara <sup>1</sup> , T. Sazuka <sup>1</sup> (1.Biosci. and Biotech. Center, Nagoya Univ., 2.Grad. Sch. Bioagri., Nagoya Univ., 3.Grad. Sch. Agric. Life Sci., U. Tokyo, 4.JSPS Research Fellowship for Young Scientists PD)
<b>P046</b>	Ectopic expression of a phosphate transporter gene improves phosphate absorption and utilization efficiency of plants?	○Tada, Y., Y. Noike, A. Shimizu (Sch. Biosci. Biosci., Tokyo Univ. Technol.)
<b>P047</b>	Characterization of callus types and establishment of the efficient tissue culture system in <i>Echinochloa phyllopogon</i>	○Gondo, T. <sup>1</sup> , M. Sugahara <sup>2</sup> , S. Iwakami <sup>3</sup> (1.FSRC, Univ. Miyazaki, 2.Grad. Sch. Agr., Univ. Miyazaki, 3.Grad. Sch. Agr., Kyoto Univ.)
<b>P048</b>	Development of novel evergreen zoysiagrass variety via genome editing: Production and evaluation of <i>NYC1</i> - knockout <i>Zoysia matrella</i>	☆Ng, H. <sup>1</sup> , M. Hirata <sup>2</sup> , T. Gondo <sup>3</sup> , R. Akashi <sup>4</sup> (1.Interdiscip. Grad. Sch. Agr. & Engr., Univ. Miyazaki, 2.Grad. Sch. Agr., Univ. Miyazaki, 3.FSRC, Univ. Miyazaki, 4.Univ. Miyazaki)
<b>P049</b>	Genetic characterization of re-differentiated genome-edited potato	○Endo, A. <sup>1</sup> , S. Yasumoto <sup>2</sup> , H. Sasaki <sup>3</sup> , T. Igarashi <sup>3</sup> , N. Umemoto <sup>4</sup> , T. Muranaka <sup>2</sup> , M. Mori <sup>3</sup> , T. Yamada <sup>1</sup> (1.Grad. Sch. Agric., Hokkaido Univ., 2.Grad. Sch. Eng., Osaka Univ., 3.Calbee Potato, Inc., 4.CSRS, RIKEN)
<b>P050</b>	An attempt of the multiplex gene editing in rice	○Saika, H. <sup>1</sup> , K. Negishi <sup>1,2</sup> , H. Kaya <sup>1,3</sup> , M. Endo <sup>1</sup> , S. Toki <sup>1,4,5,6</sup> (1.Institute of Agrobiological Sciences, NARO, 2.Present; Institute of Fruit Tree and Tea Science, NARO, 3.Present; Fac. Agr., Ehime Univ., 4.Grad. Sch. Nanobio., Yokohama City Univ., 5.KIBR, Yokohama City Univ., 6.Fac. Agr., Ryukoku Univ.)
<b>P051</b>	Attempts to create novel cleistogamous rice by amino acid substitution genome editing technology	☆Nozaka, A., T. Kuroha, M. Kimizu, S. Chechetka, H. Yoshida (National Agriculture and Food Research Organization, NARO)
<b>P052</b>	Studies on the male sterility and abnormal floral organs observed in the BC3 line of a mutable tobacco plant.	☆Hanamoto, S. <sup>1</sup> , T. Terachi <sup>2</sup> , M. Nishimoto <sup>2</sup> , H. Terada <sup>2</sup> (1.Grad. Sch. Life Sci., Kyoto Sangyo Univ., 2.Fac. Life Sci., Kyoto Sangyo Univ.)
<b>P053</b>	Whole-genome sequence analysis of neutron-irradiated rice in the M2 generation using the J-PARC accelerator	☆Kojima, K. <sup>1</sup> , K. Ishibasi <sup>2</sup> , N. Kikuchi <sup>2</sup> , T. Kohzuma <sup>3</sup> , A. Hoshikawa <sup>4</sup> , T. Kuboyama <sup>1</sup> (1.Col. Agr., Ibaraki U., 2.QFF, 3.Col. Sci., Ibaraki U., 4.iFRC, Ibaraki U.)
<b>P054</b>	Activation of LTR retrotransposons in a rice nested association mapping population.	○Fukai, E. <sup>1</sup> , A. Abe <sup>2</sup> , K. Okazaki <sup>1</sup> (1.Graduate School of Science and Technology, Niigata University, 2.Iwate Biotechnology Research Center)

<b>P055</b>	Effect of genomic region associated with light-independent anthocyanin accumulation in the turnip cultivar 'Akamaru' on the transcriptome and methylome	☆Segawa, T., R. Kumazawa, M. Hara, S. Saiga, M. Yoshizumi, H. Takagi (Ishikawa Prefectural University)
<b>P056</b>	Studies on the Koubou radish showing mitochondrial heteroplasmy found in the Yonezawa city (Yamagata prefecture).	○Terachi, T., R. Takii, A. Yamakawa (Fac. Life Sci., Kyoto Sangyo Univ.)
<b>P057</b>	Development a technology for the induction of plant-organelle-genome-specific random mutagenesis in 2 ways	☆Kosaka, N. <sup>1</sup> , Y. Harada <sup>1</sup> , I. Nakazato <sup>1</sup> , M. Okuno <sup>2</sup> , T. Itoh <sup>3</sup> , W. Yamori <sup>1</sup> , N. Tsutsumi <sup>1</sup> , S. Arimura <sup>1</sup> (1.Grad. Sch. Agri. and Life Sci., Univ. Tokyo, 2.Sch. Med., Univ. Kurume, 3.Sch. Life Sci. and Tech., Tokyo Inst. Tech.)
<b>P058</b>	Bacterial blight resistant mutant lines induced by ion beam irradiation in rice with special reference to agronomic traits and reaction to multiple races	☆Takahashi, R. <sup>1</sup> , K. Kato <sup>1</sup> , Y. Maeda <sup>1</sup> , Y. Shibata <sup>1</sup> , Y. Gatayama <sup>2</sup> , S. Taura <sup>3</sup> , K. Ichitani <sup>4</sup> (1.Grad. Sch. Agr. Forest. Fish., Kagoshima Univ., 2.KIAD Tokunoshima, 3.Inst. Gene Res., Kagoshima Univ., 4.Fac. Agr., Kagoshima Univ.)
<b>P059</b>	Effect of bacterial blight resistance genes from mutants on agronomic traits in rice	☆Maeda, Y. <sup>1</sup> , R. Takahashi <sup>1</sup> , Y. Shibata <sup>1</sup> , S. Taura <sup>2</sup> , K. Ichitani <sup>3</sup> (1.Grad. Sch. Agr. Forest. Fish., Kagoshima Univ., 2.Inst. Gene Res., Kagoshima Univ., 3.Fac. Agr., Kagoshima Univ.,)
<b>P060</b>	Screening method of resistance to gray leaf spot disease caused by <i>Neopestalotiopsis</i> sp in loquat fruit	○Hiehata, N. <sup>1</sup> , R. Sakaguchi <sup>1,2</sup> , M. Komine <sup>1</sup> (1.Fruit Tree & Tea Res. Unit, Nagasaki Agri. Forest. Tech. Dev. Ctr., 2.Nagasaki Prefectural Government Ken'ou Development Bureau)
<b>P061</b>	Genetic characterization and preliminary mapping of <i>Cucumber mosaic virus</i> resistance in spinach	☆Wu, Y. <sup>1</sup> , H. Hirakawa <sup>2</sup> , C. Masuta <sup>3</sup> , Y. Onodera <sup>3</sup> (1.Grad. Sch. Agr., Hokkaido Univ., 2.Kazusa DNA Res. Inst., 3.Res. Fac. Agr., Hokkaido Univ.)
<b>P062</b>	Comparison of the transcriptional response between komatsuna cultivars upon <i>Albugo candida</i> infection	Akter, M. <sup>1</sup> , N. Miyaji <sup>2</sup> , M. Shimizu <sup>2</sup> , I. Chuma <sup>3</sup> , ○R. Fujimoto <sup>1</sup> (1.Grad. Sch. Agric. Sci., Kobe Uni, 2.Iwate Biotechnol. Res. Ctr., 3.Obihiro Univ. Agric. Vet. Med.)
<b>P063</b>	Identification of blast resistance genes in foxtail millet	☆Ito, K. <sup>1</sup> , H. Kan <sup>2</sup> , Y. Yoshitsu <sup>2</sup> , A. Abe <sup>1</sup> , T. Osato <sup>2</sup> , R. Terauchi <sup>1</sup> , M. Shimizu <sup>1</sup> (1.IBRC, 2.Iwate Agric.Res.Ctr.)
<b>P064</b>	A QTL, <i>Resistance to Burkholderia glumae 1 (RBG1)</i> confers resistance to bacterial seedling rot through negative regulation of ABA	○Mizobuchi, R. <sup>1</sup> , K. Sugimoto <sup>1</sup> , S. Tsushima <sup>2</sup> , S. Fukuoka <sup>3</sup> , C. Tsuki <sup>1</sup> , M. Endo <sup>4</sup> , M. Mikami <sup>4</sup> , H. Saika <sup>4</sup> , H. Sato <sup>1</sup> (1.Inst. Crop. Sci., NARO, 2.Strategic Planning Headquarters, NARO, 3.Core Technology Research Headquarters, NARO, 4.Institute of Agrobiological Sciences, NARO)
<b>P065</b>	The effects of rice cleistogamy to occurrence of Bacterial grain rot and Bacterial seedling rot caused by <i>Burkholderia glumae</i>	○OHMORI, S. <sup>1</sup> , H. NAKAJIMA <sup>2</sup> , K. SAKAI <sup>3</sup> , K. KOMAKI <sup>3</sup> , M. SABA <sup>1</sup> , R. MIZOBUCHI <sup>1</sup> (1.Institute of Crop Science, NARO, 2.Nagano Agricultural Experiment Station, 3.Saitama Agricultural Technology Reseach Center)
<b>P066</b>	Identification of aquaporins and transcriptome analysis of salt and osmotic stress response in common wheat	☆Moriya, H., M. Safi, W. Ahmadzai, R. Nakayama, Y. Kamiya, K. Kanako (KIBR, Yokohama City Univ.)
<b>P067</b>	Comparison of salt stress response genes in synthetic hexaploid wheat	☆Yokota, A., H. Moriya, R. Watanabe, Y. Kamiya, K. Kawaura (KIBR, Yokohama City Univ.)
<b>P068</b>	MBF1c-dependent regulation of long-range signaling in response to heat stress in <i>Arabidopsis thaliana</i> .	☆Morizane, I., N. Suzuki (Grad.Sch.Sci.,Univ.Sophia)
<b>P069</b>	Evaluation of waterlogging tolerant in wheat using vegetation indexes measured with UAV	☆Kakitsuka, Y., O. Uchikawa, A. Onoue, H. Kai (Fukuoka Agric. Res. Cent.)

<b>P070</b>	Evaluation of waterlogging tolerance in wheat by field flooding treatment at the early stage of growth	☆Onoue, A., H. Kai, Y. Kakitsuka, O. Uchikawa (Fukuoka Agric. Res. Cent.)
<b>P071</b>	Exploration of wild emmer wheat intraspecific heat stress tolerance variation in a background of durum wheat	☆Balla, M. <sup>1,2</sup> , N. Kamal <sup>1,2</sup> , Y. Gorafi <sup>1,2</sup> , M. Abdalla <sup>2</sup> , I. Tahir <sup>1,2</sup> , H. Tsujimoto <sup>1</sup> (1.Arid Land Research Center, Tottori Univ., 2.Agricultural Research Corporation, Sudan)
<b>P072</b>	Analysis of the quantitative trait locus <i>Na-QTL1</i> involved in the control of Na <sup>+</sup> accumulation in the leaf blades of rice under salinity stress.	☆Ishii, Y. <sup>1</sup> , R. Ishikawa <sup>2</sup> , H. Matsumura <sup>3</sup> , P. Yaddehige <sup>4</sup> , T. Ishii <sup>2</sup> , T. Horie <sup>1</sup> (1.Grad. Sch., Div. Appl Biol., Shinshu Univ., 2.Grad. Sch., Agric Sci., Kobe Univ., 3.Gene Research Center, Shinshu Univ, 4.GLORDC, Sri
<b>P073</b>	Selection and physiological analysis of water-saving drought-tolerant genotypes from the wheat TILLING population	☆Hirata, S. <sup>1</sup> , S. Yokoyama <sup>2</sup> , H. Tsujimoto <sup>3</sup> , R. Mega <sup>1</sup> (1.Grad. Sch. Sci. Tech. Innov., Yamaguchi Univ., 2.Grad. Sch. Environ. Life Sci., Okayama Univ., 3.ALRC, Tottori Univ.)
<b>P074</b>	Investigation of conditions for mutation breeding to produce heat tolerant of licorice ( <i>Glycyrrhiza uralensis</i> L.)	☆Asakura, N. <sup>1</sup> , H. Sasakura <sup>2</sup> , Y. Masuda <sup>1</sup> , Y. Matsuda <sup>1</sup> (1.Grad. Sch. of Agri. Tokai U., 2.Sch. of Agri. Tokai U.)
<b>P075</b>	Elucidation of the drought response mechanisms of rice "Nipponbare" by multi-omics analysis	☆Soma, F. <sup>1</sup> , Y. Kitomi <sup>1</sup> , T. kawakatsu <sup>2</sup> , Y. Uga <sup>1</sup> (1.Inst. Crop. Sci., NARO, 2.Inst. Agrobiol. Sci., NARO)
<b>P076</b>	Evaluation of grain-filling-related traits using Taichung 65 x DV85 chromosome segment substitution lines (TD-CSSLs) of rice	☆MABREJA, A., V. Reyes, S. Nishiuchi, K. Doi (Grad. Sch. Bioagri. Sci., Nagoya U.)
<b>P077</b>	Evaluation of heritability of medicinal compound contents in <i>Glycyrrhiza uralensis</i>	☆Tsusaka, T., Y. Aoki, M. Sakurai (Tsumura & Co.)
<b>P078</b>	Production of antimicrobial peptides persulcatusin and CCL28 in rice for therapeutic use for livestock	Fujita, G., G. Watarai, S. Shimoda, M. Koseki, Y. Iwai, H. Yoneyama, ○Y. Ito (Grad Sch Agri Sci, Tohoku Univ)
<b>P079</b>	Genome-wide association study for ephedrine alkaloid in medicinal plant <i>Ephedra sinica</i>	☆Hiyama, H. <sup>1</sup> , K. Shirasawa <sup>2</sup> , S. Isobe <sup>2</sup> (1.Tsumura & Co., 2.Kazusa DNA Res. Inst.)
<b>P080</b>	Increased methylation levels observed in the 5' region of <i>18S rDNA</i> during the early growth of rice hybrids	☆Ohtsuki, H. <sup>1</sup> , R. Takama <sup>2</sup> , Y. Nakamura <sup>1</sup> , K. Ichitani <sup>3</sup> , T. Kuboyama <sup>1</sup> (1.Col. Agr., Ibaraki U., 2.Inst. Plant Protection, NARO, 3.Fac. Agr., Kagoshima U. )
<b>P081</b>	Semi-dwarf gene identified in the Rht8 region from spelt wheat.	☆Shimada, S. <sup>1</sup> , T. Abe <sup>1</sup> , W. Takanishi <sup>1</sup> , I. Chuma <sup>1</sup> , M. Chono <sup>2</sup> , K. Hatta <sup>2</sup> , K. Onishi <sup>1</sup> (1.Obihiro U. Agr. & Vet. Med., 2.Institute of Crop Science, NARO)
<b>P082</b>	Multi-allelic variants in FT-B1 region responsible for heading time in hexaploid wheat	☆Diaz Suarez, L. <sup>1</sup> , H. Inagaki <sup>1</sup> , K. Kato <sup>2</sup> , K. Onishi <sup>1</sup> (1.Obihiro U. Agr. & Vet. Med., 2.Grad. Sch. Environ. Life Nat. Sci. Tech., Okayama U.)
<b>P083</b>	Effect of auxin biosynthesis inhibitor on seminal root length and the difference among strains in common wheat.	☆Ozawa, K., Y. Kamiya, K. Kawaura (KIBR, Yokohama City Univ.)
<b>P084</b>	Effect of cytokinin oxidase/dehydrogenase inhibitor CPPU treatment on a new frill mutant of <i>Torenia</i>	☆Mayuzumi, T. <sup>1</sup> , M. Hatashita <sup>2</sup> , K. Takagi <sup>2</sup> , T. Abe <sup>3</sup> , Y. Kazama <sup>1,3</sup> (1.Fac. Biosci. Biotech., Fukui Pref. Univ, 2.Wakasa-wan Ener. Cent, 3.RIKEN Nishina Center)
<b>P085</b>	Breaking seed dormancy by physical stimulations and changes in amounts of phyto-hormones in barley	○Kai, H. <sup>1</sup> , A. Onoue <sup>1</sup> , T. Matsuura <sup>2</sup> , D. Saisho <sup>2</sup> , T. Tanaka <sup>3</sup> , Y. Haraguchi <sup>1</sup> , T. Todoroki <sup>4</sup> , T. Abiko <sup>5</sup> (1.Fukuoka Agric. Res. Cent., 2.IPSR, Okayama Univ., 3.NAAC, NARO, 4.Fukuoka Pref. Office, 5.Kyushu Univ.)

<b>P086</b>	Changes in nuclear structure during abortion in the barley inflorescence meristem	☆Matsumoto, H. <sup>1</sup> , J. Ito <sup>1</sup> , Y. Nomura <sup>1</sup> , M. Wakazaki <sup>2</sup> , M. Sato <sup>2</sup> , N. Takeda-Kamiya <sup>2</sup> , D. Saisho <sup>3</sup> , K. Toyooka <sup>2</sup> , H. Tsuji <sup>1,4</sup> (1.KIBR, Yokohama City Univ., 2.CSRS, RIKEN, 3.IPSR, Okayama Univ., 4.Bioscience and Biotechnology Center, Nagoya Univ.)
<b>P087</b>	Interaction among mechanism by heading time genes of durum wheat revealed by expression analysis	☆Fujioka, A. <sup>1</sup> , Y. Monden <sup>2</sup> , K. Nishimura <sup>2</sup> , H. Nishida <sup>2</sup> , K. Kato <sup>2</sup> (1.Grad. Sch. Environ. Life Sci., Okayama U., 2.Grad. Sch. Environ. Life Nat. Sci. Tech., Okayama U.)
<b>P088</b>	The exploration of causal genes that affect heading time by exome-sequencing and genetic analysis of mutant genes in barley mutants	☆Okuma, M. <sup>1</sup> , K. Nishimura <sup>2</sup> , Y. Monden <sup>2</sup> , K. Kato <sup>2</sup> , H. Nishida <sup>2</sup> (1.Grad. Sch. Environ. Life Sci., Okayama U., 2.Grad. Sch. Environ. Life Nat. Sci. Tech., Okayama U.)
<b>P089</b>	Phenotypic evaluation of ricewheat ( <i>Oryzawheat</i> ) under the sandy filed condition	☆Sugiura, R. <sup>1</sup> , R. Nakao <sup>1</sup> , H. Tarutani <sup>2</sup> , T. Maryenti <sup>3,4</sup> , J. Liu <sup>5</sup> , T. Okamoto <sup>3</sup> , R. Kimura <sup>5</sup> , T. Ishii <sup>5</sup> (1.Under. Sch. Agri., Tottori Univ., 2.Grad. Sch. Dry., Tottori Univ., 3.Grad. Sch. Biol., Tokyo Metro. Univ., 4.Grad. Sch. Math., Univ. Indonesia, 5.Arid Land Research Center., Tottori Univ.)
<b>P090</b>	Novel QTL responsible for seminal root elongation in wheat	☆Manaka, C. <sup>1</sup> , K. Inoshita <sup>1</sup> , K. Hatta <sup>2</sup> , G. Ishikawa <sup>2</sup> , K. Onishi <sup>1</sup> (1.Obihiro U. Agr. & Vet. Med., 2.Institute of Crop Science, NARO)
<b>P091</b>	Selection of individuals suitable for genetic breeding experiments from the self-pollinated buckwheat backcross inbred lines.	☆Nemoto, K. <sup>1</sup> , S. Ishikawa <sup>1</sup> , O. Ueda <sup>1</sup> , S. Ito <sup>1</sup> , K. Ishikawa <sup>1</sup> , H. Maruyama <sup>1</sup> , S. Akiyama <sup>1</sup> , T. Funaki <sup>2</sup> , H. Nakamura <sup>2</sup> , T. Kaizu <sup>2</sup> , A. Nakano <sup>1</sup> , J. Aii <sup>1</sup> (1.NUPMLS, 2.Niigata City Agri. Dev. Res. Cent.)
<b>P092</b>	Research to restore fertility in CMS potato varieties.	☆Nakajima, R. <sup>1</sup> , K. Kuwabara <sup>1</sup> , T. Ariizumi <sup>2</sup> , S. Arimura <sup>3</sup> , K. Shirasawa <sup>4</sup> (1.Grad. Sch. Life Environ Sci., Univ. Tsukuba, 2.Fac. Life Environ Sci., Univ. Tsukuba, 3.Grad. Sch. Agri. and Life. Sci., Univ. Tokyo, 4.Kazusa DNA Res. Inst.)
<b>P093</b>	Histological evaluation of fertility restoration lines against cytoplasmic male sterile tomato.	☆Mashita, S. <sup>1</sup> , K. Shirasawa <sup>2</sup> , H. Takei <sup>4</sup> , I. Harada <sup>4</sup> , Y. Iki <sup>4</sup> , K. Kuwabara <sup>1</sup> , H. Suzuki <sup>3</sup> , S. Iioka <sup>3</sup> , T. Ariizumi <sup>4</sup> (1.Grad. Sch. Life and Env. Sci., Univ. Tsukuba, 2.Kazusa DNA Res. Inst, 3.Tokita Seed Co., Ltd, 4.Fac. Life Env. Sci., Univ. Tsukuba)
<b>P094</b>	A proposed model for the molecular mechanism of Tadukan-type cytoplasmic male sterility based on morphological observation and transcriptomic analysis	☆Takatsuka, A. <sup>1</sup> , T. Kazama <sup>2</sup> , K. Toriyama <sup>1</sup> (1.Grad. Sch. Agri. Sci., Tohoku Univ., 2.Fac. Agri. Sci., Kyushu Univ.)
<b>P095</b>	Phenotypic effects of sugar beet <i>Restorer-of-fertility 1</i> gene on pollen development and male fertility of normal cytoplasm line	☆Tsuchiya, R. <sup>1</sup> , H. Matsuhira <sup>2</sup> , Y. Kuroda <sup>2</sup> , K. Kitazaki <sup>3</sup> , T. Kubo <sup>3</sup> (1.Graduate School of Agriculture, Hokkaido University, 2.Hokkaido Agricultural Research Center, National Agriculture and Food Research Organization, 3.Research Faculty of Agriculture, Hokkaido University)
<b>P096</b>	Detection of overcoming hybrid weakness in an intraspecific cross of <i>Arabidopsis thaliana</i>	☆Nagashima, K. <sup>1</sup> , K. Nakata <sup>2</sup> , M. Kanekatsu <sup>2</sup> , T. Yamada <sup>2</sup> (1.Grad. Sch. Agr., Tokyo U. Agr. Tech., 2.United Grad. Sch. Agr., Tokyo U. Agr. Tech.)
<b>P097</b>	Development of a self-pollinated buckwheat mutant population by heavy ion beam irradiation.	☆Ishikawa, S. <sup>1</sup> , K. Nemoto <sup>1</sup> , K. Kawakami <sup>1</sup> , R. Morita <sup>2</sup> , T. Abe <sup>2</sup> , A. Nakano <sup>1</sup> , J. Aii <sup>1</sup> (1.NUPMLS, 2.RIKEN Nishina Cent.)