

Title of Papers Presented at the 116th Meeting of  
The JAPANESE SOCIETY OF BREEDING  
Held at Hokkaido University, Sapporo, Hokkaido, Japan  
September 25-26, 2009

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231	Identification of a mutation causing high Pi contents in rice seed.. ○ Y. Nakashima, M. Sakuyama, K. Yoshida (Grad.Sch.Agric.Life Sci., U.Tokyo)
232	Analysis of rice mitochondrial PPR protein, MPR25. ○ T. Toda <sup>1</sup> , S. Fujii <sup>2</sup> , K. Toriyama <sup>1</sup> (1.Grad.Sch.Life Sci., U.Tohoku 2.ARC Centre of Excellence in Plant Energy Biol, U.Western Australia)
233	Detection of interactive reproductive barriers within gametophyte or zygote using F2 population. ○ Y. Harushima <sup>1,4</sup> , S. Kuriki <sup>2,3</sup> , Y. Mizuta <sup>1,3</sup> , N. Kurata <sup>1,3</sup> (1.Plant Genetics Lab., NIG 2.Mathematical Statistics Group, ISM 3.SOKENDAI 4.Transdisciplinary Research Integration Center, RIOS)
234	SFP detection by Affymetrix Rice Genome Array and its application to genomic diversity studies. ○ Y. Horiuchi <sup>1,2</sup> , Y. Harushima <sup>1,2</sup> , T. Mochizuki <sup>1</sup> , H. Fujisawa <sup>3</sup> , M. Kawakita <sup>4</sup> , S. Eguchi <sup>3,5</sup> , N. Kurata <sup>1,5</sup> (1.NIG 2.TRIC 3.ISM 4.ISEE, U.Kyushu 5.SOKENDAI)
235	Structure of multigene encoding $\alpha$ / $\beta$ -gliadin in wheat genome. ○ K. Kawaura <sup>1</sup> , J. Wu <sup>2</sup> , T. Matsumoto <sup>2</sup> , H. Kanamori <sup>3</sup> , S. Katagiri <sup>3</sup> , Y. Ogihara <sup>1</sup> (1.KIBR, Yokohama City U. 2.NIAS 3.STAFF)

236	Relationship between QTLs for ABA-sensitivity and ABA-responsive gene expression in common wheat seedling. ○ F. Kobayashi <sup>1,2</sup> , S. Takumi <sup>3</sup> , H. Handa <sup>1</sup> (1.NIAS 2.JSPS Research Fellow 3.Grad. Sch. Agric. Sci., Kobe U.)
237	Variation for grain dormancy and detection of associated QTLs in a white-grained wheat population. ○ M. Fujii <sup>1</sup> , H. Miura <sup>1</sup> (1.Obihiro Univ.Agric & Vet. Med. 2.Obihiro Univ.Agric & Vet. Med.)
238	Mapping of the gene for juiciness of stalk in <i>Sorghum bicolor</i> . ○ J. Yoneda <sup>1</sup> , T. Onishi <sup>1</sup> , T. Ando <sup>2</sup> , I. Kono <sup>2</sup> , T. Tokunaga <sup>3</sup> , T. Matsumoto <sup>5</sup> , S. Kasuga <sup>4</sup> , N. Tsutsumi <sup>1</sup> (1.Graduated School of Agricultural and Life Science/ Faculty of Agriculture, The University of Tokyo 2.the Society for Technoinnovation of Agriculture, Forestry and Fisheries 3.Earth Note Co.,Ltd. 4.Fuculty of Agriculture, Shinshu University 5.National Institute of Agrobiological Sciences)
301	QTL analysis of morphological traits in <i>Brassica rapa</i> . ○ N. Kubo <sup>1,2</sup> , M. Saito <sup>1</sup> , H. Tsukazaki <sup>3</sup> , T. Kondo <sup>4</sup> , S. Matsumoto <sup>3</sup> , M. Hirai <sup>1,2</sup> (1.Grad.Sch.Life Environ.Sci., Kyoto Pref.U. 2.Biotechnol.Res.Dept., Kyoto Pref.Agric.Forest.Fish.Technol.Cent. 3.NIVTS 4.Nippon Norin Seed Co.)
302	A comparative map of <i>Brassica rapa</i> and <i>Arabidopsis thaliana</i> and its use for identification of candidate genes within QTLs of agronomical traits. ○ F. Li, H. Kitashiba, T. Nishio (Grad. Sch. Agric. Sci., U.Tohoku)
303	Transmission of chromosomes of a wild hexaploid species, <i>Solanum demissum</i> in the successive backcrosses to the common potato. ○ S. Ono, K. Hosaka (Food Resources Edu. Res. Ctr., Kobe U.)
304	"Prick-n-PCR"; a simple PCR protocol avoiding DNA extraction for fruit tree. ○ S. Ohta <sup>1</sup> , K. Yano <sup>1</sup> , N. Kurita <sup>2</sup> , M. Kita <sup>1</sup> , T. Shimizu <sup>1</sup> , H. Nesumi <sup>1,3</sup> (1.Okitsu Citrus Research Station, National Institute of Fruit Tree Science 2.Department of Horticultural Research, Aichi Agricultural Research Center 3.Shikoku Research Center, National Agriculture Research Center for Western Region)
305	Environmental effects on the radish mitochondrial genome structure and expression of the genes involving SSS. ○ Y. Otake, H. Yamagishi, T. Terachi (Fac. Eng., Kyoto Sangyo U.)
306	Construction of a linkage map of DNA markers and QTL analysis of root thickness in <i>Raphanus sativus</i> . ○ H. Kitashiba <sup>1</sup> , M. Saito <sup>1</sup> , Y. Abe <sup>1</sup> , T. Ito <sup>1</sup> , T. Uno <sup>1</sup> , H. Fujii <sup>2</sup> , T. Nishio <sup>1</sup> (1.Grad. Sch. Agric. Sci., Tohoku Univ. 2.Natl. Inst. Fruit Tree Sci.)
307	Linkage mapping in radish and QTL analysis of morphological traits. ○ T. Hashida <sup>1</sup> , R. Nakatsuji <sup>1</sup> , N. Kubo <sup>1,2</sup> , S. Matsumoto <sup>3</sup> , T. Fujimura <sup>4</sup> , M. Hirai <sup>1,2</sup> (1.Grad. Sch. Life. Environ. Sci., Kyoto Pref. U. 2.Biotechnol. Res. Dept., Kyoto Pref. Agric. Forest. Fish. Technol. Cent. 3.NIVTS 4.Grad. Sch. Life. Env. Sci., U. Tsukuba)
308	A P-class pentatricopeptide repeat protein (PPR) regulates RNA editing efficiency in <i>Arabidopsis</i> mitochondria. ○ Y. Doniwa <sup>1</sup> , M. Ueda <sup>1,2</sup> , M. Ueta <sup>3</sup> , A. Wada <sup>3</sup> , K. Kadowaki <sup>4</sup> , N. Tsutsumi <sup>1</sup> (1.Grad.Sch.Agric.Life Sci., U.Tokyo 2.Grad.Sch. Sci., Kyoto Univ. 3.Yoshida Biological Laboratory 4.Natl. Inst. Agrobiol. Sci.)
309	The identification of mitochondrial RNA editing site influenced by a paralogous gene of <i>MEF20</i> (mitochondrial editing factor 20) in <i>Arabidopsis</i> . ○ M. Ueda <sup>1,2</sup> , Y. Doniwa <sup>1</sup> , M. Ueta <sup>3</sup> , A. Wada <sup>3</sup> , K. Kadowaki <sup>4</sup> , N. Tsutsumi <sup>1</sup> (1.Grad.Sch.Agric.Life Sci., U.Tokyo 2.Grad.Sch. Sci., Kyoto Univ. 3.Yoshida Biological Laboratory 4.Natl. Inst. Agrobiol. Sci.)

310	Fine mapping of parthenocarpic genes in eggplant and evaluation of their quantitative effects utilizing chromosome segment substitution lines. ○K. Miyatake, T. Saito, S. Negoro, H. Yamaguchi, T. Nunome, A. Ohyama, H. Fukuoka (NIVTS)
311	Development of a genome-wide SSR marker set using genome sequence data in tomato.. ○ H. Fukuoka <sup>1</sup> , A. Ohyama <sup>1</sup> , K. Shirasawa <sup>2</sup> , S. Negoro <sup>1</sup> , S. Sato <sup>2</sup> , K. Miyatake <sup>1</sup> , T. Nunome <sup>1</sup> , H. Yamaguchi <sup>1</sup> (1.Natl. Inst. Veg. Tea Sci, NARO 2.Kazusa DNA Res. Inst.)
312	Construction of DNA marker associated with beer foam stability for barley breeding. ○ T. Iimure <sup>1</sup> , M. Kihara <sup>1</sup> , K. Ito <sup>2</sup> , K. Hayashi <sup>1</sup> , K. Sato <sup>3</sup> , K. Takeda <sup>3</sup> (1.Bioresources Research & Development Department, Sapporo breweries Ltd. 2.Frontier Laboratories of Value Creation, Sapporo breweries Ltd. 3.Barley Germplasm Center, Research Institute for Bioresources, Okayama University)
313	How the six-rowed spike gene evolved in the Poaceae. ○S. Sakuma <sup>1,2</sup> , M. Pourkheirandish <sup>2</sup> , T. Matsumoto <sup>2</sup> , T. Koba <sup>1</sup> , T. Komatsuda <sup>2</sup> (1.Grad. Sch. Hort., Chiba U 2.NIAS)
314	Structure analysis of mitochondria genes and its expression related with Cytoplasmic Male Sterility phenomenon in chili pepper ( <i>Capsicum annum</i> L.). ○Y. Shin, S. Wang, Y. Hirata (Grad.Sch.Agric,TUAT)
315	Pedigree haplotypes inherited from Japanese rice landraces to Koshihikari and current leading varieties. ○T. Yamamoto, J. Yonemaru, H. Nagasaki, K. Ebana, M. Nakajima, T. Shibaya, M. Yano (Natl. Inst. Agrobiol. Sci.)
316	Analysis of <i>cis</i> -localization elements involved in the RNA targeting of maize zein and their use for the protein accumulation in rice endosperm cells. ○H. Washida <sup>1</sup> , A. Sugino <sup>1</sup> , N. Crofts <sup>1,2</sup> , A. Crofts <sup>1,2</sup> , T. Okita <sup>1</sup> , M. Ogawa <sup>3</sup> , S. Hamada <sup>4</sup> (1.Inst. Bio. Chem., Washington State U. 2.Akita International U. 3.Dept.Life Sci., Yamaguchi Pref. U. 4.Grad. Sch.Agric., Hokkaido U.)
317	Genetic studies on Bambuseae species in Japan. XXVII. Ishiduchizasa, a line of the genus <i>Sasa</i> , on Kouzujima, Izu Islands, and its distribution site.. ○M. Muramatsu (None, Professor emeritus, U. Okayama)
318	Automatic Processing of White-Core Standard Image by ImageJ. ○S. Hayashi <sup>1</sup> , Y. Takahara <sup>2</sup> (1.Bioengineering, Nagaoka Univ. of Tech. 2.Bioengineering, Nagaoka Univ. of Tech.)
319	ppdb, Plant Promoter Database. ○Y. Yamamoto <sup>1</sup> , N. Sato <sup>2</sup> , J. Obokata <sup>3,4</sup> (1.Fac. Appl. Biol. Sci., Gifu Univ. 2.Grad. Sch. Arts Sci. Univ. Tokyo 3.Grad. Sch. Life and Environ. Sci., Kyoto Pref. Univ 4.Ctr. Gene Res., Nagoya Univ.)
320	Recurrent selection using transgenic male sterility (RSUTMS) for autogamous plant species. ○J. Tanaka (Agriculture, Forestry and Fisheries Research Council, MAFF Present Address: National Institute of Vegetable and Tea Science, NARO)
321	Efficiency of genomic selection in perennial plant breeding: simulation studies in forest tree species sugi ( <i>Cryptomeria japonica</i> ). ○H. Iwata <sup>1</sup> , T. Hayashi <sup>2</sup> , Y. Tsumura <sup>3</sup> (1.NARC 2.NIAS 3.FFPRI)
322	On the reflectiveness of QTL configuration in the QTL profiles obtained with the QTL analysis. ○T. Ishii <sup>1</sup> , K. Yano <sup>2</sup> , K. Yonezawa <sup>3</sup> (1.Natl. Inst. Crop Sci. 2.Sch. Agri., Meiji Univ. 3.Fac Engin., Kyoto Sangyo Univ.)
323	Optimization of selection procedures for quantitative traits: Theoretical framework for the optimization. ○K. Yano <sup>1</sup> , T. Ishii <sup>2</sup> , K. Yonezawa <sup>3</sup> (1.Sch. Agri., Meiji Univ. 2.Natl. Inst. Crop Sci. 3.Fac. Engin., Kyoto Sangyo Univ.)

324	<p>Agronomic characters of new sesame (<i>Sesamum indicum</i> L.) varieties, Gomaemon and Gomahime.          ◦ N. Ogata<sup>1</sup>, T. Hoshino<sup>2</sup>, M. Katsuta<sup>3</sup>, S. Yasumoto<sup>4</sup>, M. Sugiura<sup>5</sup>, T. Yamada<sup>1</sup>, S. Sagawa<sup>2</sup>          (1.Natl.Inst.Crop Sci. 2.Fac.Agric.,U.Iwate 3.Agric., Forestry and Fisheries Res.Council          4.Narl.Agric.Res.Cent.5.Natl.Agric.Res.Cent.West.Reg.)</p>
325	<p>Development of a multiplex PCR method for simultaneous detection of DNA markers linked to five disease and pest resistance genes in potato breeding .          ◦ K. Mori<sup>1,2</sup>, N. Mukojima<sup>1</sup>, Y. Sakamoto<sup>1</sup>, T. Nakao<sup>1</sup>, K. Hosaka<sup>3</sup> (1.Nagasaki Agri. &amp; Forestry          Tech. Dev. Center 2.Graduate School of Agriculture, Kobe U. 3.Food Resources Edu. Res. Ctr., Kobe          U.)</p>
326	<p>The evaluation method for discolor grain in two-rowed barley.          M. Tsukazaki, ◦ H. Kai, K. Takata, M. Furusho, T. Baba (Fukuoka Agricultural Research Center)</p>
327	<p>Breeding of a new wheat cultivar "SATONOSORA".          ◦ T. Takahashi, M. Osawa, T. Sukaya, S. Orimo, Y. Saitou, A. Narizuka (Gunma.Agr.Tech.Cent)</p>
328	<p>Soybean new cultivar Satonohohoemi with large seed size, high protein content and suitability for mechanical harvest.          ◦ Y. Kono, S. Yumoto, S. Kato, A. Kikuchi (Natl.Agr.Res.Cent.Tohoku)</p>
329	<p>New soybean variety Toyoharuka with tolerance to cool weather, resistance to seed discoloration, and high adaptability for combine harvest in dense planting.          ◦ Y. Tanaka<sup>1</sup>, S. Shirai<sup>2</sup>, S. Yumoto<sup>3</sup>, I. Matsukawa<sup>4</sup>, S. Hagihara<sup>1</sup>, H. Yamazaki<sup>2</sup>, C. Suzuki<sup>1</sup>, S. Onishi<sup>5</sup>, H. Kurosaki<sup>2</sup>, M. Tsunoda<sup>6</sup> (1.Hokkaido Pref. Tokachi AES 2.Hokkaido Pref. Kitami AES 3.NRCT4.JAPR 5.Hokkaido Pref. Central AES 6.Aoba Yokohama)</p>
330	<p>New soybean variety Yukipirika with high Isoflavon content and tolerance to cool weather.          ◦ S. Hagihara<sup>1</sup>, S. Shirai<sup>2</sup>, S. Yumoto<sup>3</sup>, I. Matsukawa<sup>4</sup>, H. Yamazaki<sup>2</sup>, C. Suzuki<sup>1</sup>, S. Onishi<sup>5</sup>, Y. Tanaka<sup>1</sup>, H. Kurosaki<sup>2</sup>, M. Tsunoda<sup>6</sup> (1.Hokkaido Pref. Tokachi AES 2.Hokkaido Pref. Kitami AES 3.NRCT 4.JAPR 5.Hokkaido Pref. Central AES 6.Aoba Yokohama)</p>
331	<p>Development of a new rice line Ouu-kona 408 with high dietary fiber content.          ◦ M. Yamaguchi<sup>1</sup>, R. Kajii<sup>1</sup>, K. Nakagomi<sup>1</sup>, T. Kataoka<sup>2</sup>, T. Endo<sup>3</sup>, M. Nishimura<sup>4</sup>, M. Yokoo<sup>5</sup>          (1.NARCT 2.KONARC 3.Miyagi Pref. FAES 4.NIAS, IRB 5.Former U. Tsukuba)</p>
332	<p>A new rice cultivar 'Akidawara' with high yield, good grain quality and good eating quality.          ◦ I. Ando<sup>1</sup>, H. Nemoto<sup>1</sup>, H. Kato<sup>1</sup>, H. Ohta<sup>1</sup>, H. Hirabayashi<sup>1</sup>, Y. Takeuchi<sup>1</sup>, T. Ishii<sup>1</sup>, H. Maeda<sup>1</sup>, T. Imbe<sup>2</sup>, H. Sato<sup>3</sup>, M. Hirayama<sup>4</sup>, O. Ideta<sup>5</sup>, M. Sakai<sup>2</sup>, K. Tamura<sup>6</sup>, N. Aoki<sup>1</sup>(1.NICS, NARO 2.KONARC, NARO 3.MAFF 4.IBARAKI Agr. Cent. 5.WeNARC, NARO 6.Chuo Agr.Ext. Cent., Iwate Pref.)</p>
333	<p>Natural variation and identification of allele useful for crop improvement at the <i>Pi21</i> locus for field resistance to blast in rice.          ◦ S. Fukuoka<sup>1</sup>, N. Saka<sup>2</sup>, M. Yano<sup>1</sup> (1.NIAS 2.Mount. Reg. Agric. Res. Inst. Aichi Pref. Agric. Res. Ctr.)</p>
334	<p>Eliminating linkage-drag around rice <i>Pi21</i> locus for blast field resistance using genome information.          ◦ N. Saka<sup>1</sup>, S. Fukuoka<sup>2</sup>, I. Ando<sup>3</sup>, T. Terashima<sup>1</sup> (1.Aichi. Agric. Res. Ctr, MARI 2.NIAS 3.NICS)</p>
335	<p>Genetic analysis of cool-weather tolerance at the flowering stage in rice.          ◦ H. Shinada, T. Sato (Hokkaido.pref.kamikawa agr.exp.sta.)</p>
336	<p>Breeding of high-yielding rice strains with developing many tillers, using a wild rice from the humid tropics in Hokkaido.          ◦ H. Shimizu<sup>1</sup>, Y. Itoh<sup>1</sup>, K. Onishi<sup>2</sup>, Y. Sano<sup>3</sup> (1.Nat. Agric. Res. Center for Hokkaido Reg. 2.Obihiro U. Agr. &amp; Vet. Med. 3.Grad. Sch. Agr. Hokkaido U.)</p>
401	<p>Analysis of milling and bread-making properties of grain from floury rice mutants.          ◦ K. Ashida, S. Iida, E. Araki, T. Yasui (National Agricultural Research Center for Western Region, NARO)</p>
402	<p>Bread-making properties of rice high-yield cultivars Kusanohoshi and Hoshiaoba.          ◦ E. Araki, K. Matsushita, S. Iida (NARO for Western Region)</p>

403	Rice bread properties made from near isogenic lines differing amylose content and amylopectin structure. ○N. Aoki, T. Umemoto, Y. Suzuki (Natl. Insti. Crop Sci.)
404	Inspection of the improvement of eating quality of Hokkaido rice varieties by eating quality test and physicochemical analysis. ○ M. Kinoshita <sup>1</sup> , T. Yanagihara <sup>2</sup> , T. Sato <sup>2</sup> , Y. Numao <sup>2</sup> (1.Hokkaido Central Agri.Exp.Stn. 2.Hokkaido Pref.Kamikawa Agri.Exp.Stn.)
405	Characterization of endosperm starch in double mutant rice lines defective in both starch synthase IIIa and starch synthase IVb. ○Y. Toyosawa,R. Itoh, M. Yoshida, Y. Nakamura, N. Fujita (Facult. Biores. Sci., Akita Pref. Univ.)
406	Isolation of rice lines accumulating unique $\alpha$ -glucans in the <i>sugary-1</i> endosperm. ○N. Fujita, S. Suzuki, Y. Utsumi, Y. Toyosawa, Y. Nakamura (Facult. Biores. Sci., Akita Pref. Univ.)
407	Regulation of synthesis of lutein 3-acetate, a novel lutein derivative accumulating in senescent leaves of rice. ○M. Kusaba <sup>1</sup> , T. Maoka <sup>2</sup> , R. Morita <sup>3</sup> , S. Takaichi <sup>4</sup> (1.Grad. Sch. Sci., Hiroshima U. 2.Res. Inst. Prod. Dev. 3.NIAS, IRB4.Nippon Med. Sch.)
408	Cross relationships of Cu, Fe, Zn, Mn accumulations in common rice cultivars in Japan. ○T. Yoshihara, F. Goto, K. Shoji, S. Hashida (CRIEPI, Environ. Sci.)
409	Comparison of soluble sugar and free amino acid concentration among rice cultivars. ○J. Kamara, T. Sasanuma, T. Abe (Fac. Agr. Yamagata U.)
410	Brown rice crude protein and crude fat content of high yielding animal feed rice varieties and lines grown in heavily fertilized conditions. ○ H. Kato <sup>1</sup> , M. Katsumata <sup>2</sup> , H. Ohta <sup>1</sup> , A. Ishida <sup>2</sup> , T. Kyoya <sup>2</sup> , K. Nakashima <sup>2</sup> (1.NICS, NARO 2.NILGS, NARO)
411	Variation of starch and sugar concentration concerned with seed character in vegetable-type soybean (Edamame). ○N. Oda, T. Sasanuma, T. Abe (Fac. Agr.Yamagata U.)
412	Breeding of high quality licorice ( <i>Glycyrrhiza uralensis</i> ): Individual variation of glycyrrhizin. ○ M. Kojoma <sup>1</sup> , S. Asazu <sup>1</sup> , S. Sawa <sup>1</sup> , H. Sekizaki <sup>1</sup> , S. Hayashi <sup>2</sup> , T. Shibata <sup>2</sup> , Y. Yamamoto <sup>3</sup> (1.Health Sciences U.Hokkaido 2.Research Center for Medicinal Plant Resources, NIBIO 3.Tochimoto tenkaido Co.,Ltd.)
413	Characterization of three $\gamma$ -tocopherol methyltransferase genes in soybean. ○M. Dwiyanti, T. Yamada, J. Abe, K. Kitamura (Grad.Sch.Agric., Hokkaido U.)
414	Estimation of a candidate gene for DDMP saponin glycosyltransferase in soybean. ○S. Kawasaki <sup>1</sup> , M. Kamada <sup>1</sup> , T. Yamada <sup>1</sup> , C. Tsukamoto <sup>2</sup> , J. Abe <sup>1</sup> , K. Kitamura <sup>1</sup> (1.Grad. Sch. Agric., Hokkaido U. 2.Grad. Sch. Agric., Iwate U.)
415	Isolation of <i>GmFAD3-2a</i> mutants from soybean mutant libraries by TILLING. ○T. Hoshino, T. Anai (Fac. Agric. Saga U.)
416	Analysis of genetic variations for <i>SGR</i> loci in green cotyledon soybeans. ○E. Ohashi <sup>1</sup> , M. Kusaba <sup>2</sup> , T. Yamada <sup>1</sup> , K. Kitamura <sup>1</sup> (1.Grad. Sch. Agr. Hokkaido U. 2.Fac. Sci. Hirosima.U.)
417	Analysis of space barley III. Characteristics of "Space Barley" brewed from progeny of Space Barley ( <i>Hordeum vulgare</i> L. cv. Haruna Nijo). ○ M. Kihara <sup>1</sup> , T. Hoki <sup>1</sup> , M. Shimase <sup>2</sup> , K. Hayashi <sup>1</sup> , K. Ito <sup>3</sup> , O. Gusev <sup>4</sup> , M. Levinskikh <sup>5</sup> , V. Sychev <sup>5</sup> , M. Sugimoto <sup>6</sup> (1.BRDD, Sapporo Brew. Ltd. 2.PTDC, Sapporo Brew. Ltd. 3.FLVC, Sapporo Brew. Ltd. 4.Nat. Inst. Agrobio. Sci. 5.Inst. Biomed. Prob., RAS. 6.Res. Inst. Biores., Okayama U.)
418	Isolation and characterization of seed-specific polyphenol oxydase genes in barley. ○ S. Taketa <sup>1</sup> , K. Matsuki <sup>2</sup> , S. Amano <sup>2</sup> , E. Himi <sup>1</sup> , K. Noda <sup>1</sup> , K. Takeda <sup>1</sup> (1.Res.Inst.Bioresour., Okayama U. 2.Fac.Agr., Kagawa U.)

419	Identification of a causal gene for (1-3, 1-4)-B-D-glucanless mutant in barley. ○T. Yuo <sup>1</sup> , T. Tonooka <sup>2</sup> , Y. Yamashita <sup>1</sup> , S. Taketa <sup>1</sup> (1.Res. Inst. Bioresour., Okayama U. 2.Natl. Inst. Crop Sci., NARO)
420	Functional genomics in barley chromosome addition lines of common wheat. III. Molecular genetic analyses of sterol biosynthesis-related genes. J. Tang <sup>1</sup> , K. Kawaura <sup>1</sup> , K. Ohyama <sup>2</sup> , H. Hashinokuchi <sup>2</sup> , T. Muranaka <sup>1</sup> , M. Isshiki <sup>1</sup> , ○Y. Ogihara <sup>1</sup> (1.KIBR, Yokohama City U. 2.RIKEN PSC)
421	Starch digestibility of three kinds of flour on the market with different usage. ○M. Osawa, T. Takahashi, T. Sugaya (Gunma Agr. Tech. Cent.)
422	Research on flour milling evaluation in Japanese common wheats. 5. Measurement the powder characteristic in wheat flour. ○H. Nakamura(NICS,NARO)
423	Variation in potato cultivars for greening and glycoalkaloid production with light exposure. ○H. Ozaki <sup>1</sup> ,M. Mori <sup>2</sup> ,H. Miura <sup>1</sup> (1.Obihiro U.,Agric & Vet. Med.2.Natl. Agr. Res. Ctr. Hokkaido)
424	Molecular biological and physiological characterization in three alloplasmic radish lines. ○K. Tsutsui, S. Shim, S. Bang, Y. Kaneko (Fac.Agric., U.Utsunomiya)
425	Assignment of C-genome chromosomes and <i>Brassica napus</i> linkage map using two MALs. ○M. Akaba, S. Bang, Y. Kaneko (Fac.Agric.,U.Utsunomiya)
426	Production of F <sub>1</sub> hybrids and backcross progenies in intergeneric hybridization between <i>Diplotaxis erucooides</i> and <i>Brassica rapa</i> . ○W. Yamada, S. Bang, Y. Kaneko (Fac.Agric.,U.Utsunomiya)
427	Seed fertility of intergeneric F <sub>1</sub> hybrid population between <i>Brassica rapa</i> and <i>Raphanus sativus</i> . ○K. Michiba, K. Tonosaki, S. Bang, Y. Kaneko (Fac.Agric.,U.Utsunomiya)
428	Analysis of deletion mutants in the apomixis locus in guineagrass. ○ M. Takahara <sup>1</sup> , M. Ebina <sup>1</sup> , K. Iimura <sup>1</sup> , M. Tanaka <sup>2</sup> , Y. Akiyama <sup>1</sup> , H. Yamada-Akiyama <sup>1</sup> , T. Takamizo <sup>1</sup> , H. Nakagawa <sup>3</sup> (1.NILGS 2.Nagaoka Univ. of Tech. 3.NIAS)
429	Construction of the Y-chromosome deletion library using ion-beam irradiation in the dioecious plant <i>Silene latifolia</i> . ○ Y. Kazama <sup>1</sup> , K. Ishii <sup>2</sup> , C. Torii <sup>2</sup> , W. Aonuma <sup>2</sup> , S. Kawano <sup>2</sup> , T. Abe <sup>1</sup> (1.RIKEN Nishina Center 2.Grad. Sch. Front. Sci. U. Tokyo)
430	Which genome of Triticeae is involved in haploid production by crossing with <i>Imperata cylindrica</i> pollen? ○ Y. Mukai <sup>1</sup> , S. Takemoto <sup>1</sup> , G. Okamoto <sup>1</sup> , S. Okubo <sup>1</sup> , H. Oba <sup>1</sup> , G. Suzuki <sup>1</sup> , H. Chaudhary <sup>2</sup> , M. Yamamoto <sup>3</sup> (1.Div. Nat. Sci., Osaka Kyoiku U. 2.CSK HP Agr. U. 3.Kansai U. Welf. Sci.)
431	Variation in flowering-related traits in synthetic wheat lines produced from various <i>Aegilops tauschii</i> accessions. ○ T. Kajimura <sup>1</sup> , Y. Matsuoka <sup>2</sup> , K. Murai <sup>2</sup> , S. Takumi <sup>1</sup> (1.Grad.Sch.Agric.Sci., Kobe U. 2.Dept.Biosci., Fukui Pref. U.)
432	Development of high-oleic acid soybean mutant line by TILLING method. ○T. Anai, T. Hoshino (Fac.Agric.Saga U.)
433	NBRP Tomato:Massive isolation of tomato mutants and building up the database "TOMATOMA" for forward genetics. ○T. Ariizumi <sup>1</sup> , E. Asamizu <sup>1</sup> , T. Saito <sup>1</sup> , Y. Yamazaki <sup>2</sup> , T. Mizoguchi <sup>1</sup> , N. Fukuda <sup>1</sup> , C. Matsukura <sup>1</sup> , K. Aoki <sup>3</sup> , H. Ezura <sup>1</sup> (1.Grad. Sch. Life Environ. Sci., U. Tsukuba 2.National Institute of Genetics 3.The Kazusa DNA Research Institute)

434	Mapping of a <i>Dart canceller</i> ( <i>Dac</i> ) suppressing the transposase activity of <i>aDart</i> in rice. ○ H. Nishimura <sup>1</sup> , K. Tsugane <sup>2</sup> , S. Iida <sup>3</sup> , M. Maekawa <sup>1</sup> (1.Res.Inst.Biores., Okayama U. 2.Natl.Inst.Basic.Biol. 3.Grad. Sch. Nutr. Environ. Sci., U. Shizuoka)
435	Interference of gene expression between two copies of transposon Tam3 in <i>Antirrhinum</i> . ○ T. Uchiyama <sup>1</sup> , M. Senda <sup>2</sup> , Y. Kishima <sup>1</sup> (1.Res. Fac. Agric., Hokkaido U. 2.Fac. Agr. Life Sci., Hirosaki U.)
501	Rice cultivar "Koshihikari " comprises two subgroups. Y. Hotta <sup>1</sup> , ○S. Ishiguro <sup>1</sup> , A. Hanawa <sup>2</sup> , S. Naito <sup>3</sup> , I. Takamura <sup>1</sup> , Y. Sano <sup>1</sup> , Y. Kishima <sup>1</sup> (1.Res. Fac. Agric., Hokkaido U. 2.Japan Isotope Analysis Laboratory, Inc.)
502	genetic analysis of Iranian aromatic rice cultivars. ○m. vazirzanjani,a. Chau thi,Y. Hirata(Grad.Sch.Agric.TUAT)
503	Impression of an origin of indica varieties with Rc haplotypes. ○R. Ishikawa (Fac. Agric. and Life Sci., Hirosaki U.)
504	Comparison of genetic diversity with core collections through Asia and Cambodia nationwide collection by using chloroplast genome. ○ T. Honda <sup>1</sup> , Y. Hao <sup>1</sup> , I. Nakamura <sup>2</sup> , T. Sato <sup>3</sup> , Y. Sato <sup>4</sup> , R. Ishikawa <sup>1</sup> (1.Fac.Agric.Life Sci., Hirosaki U. 2.Grad.Sch.Horticult., Chiba U. 3.Grad.Sch.Life Sci.,Tohoku U. 4.Research Institute for Humanity and Nature)
505	Genetic analysis of population structure in wild wheat progenitor <i>Aegilops tauschii</i> Coss. ○ N. Mizuno <sup>1</sup> , M. Yamasaki <sup>2</sup> , Y. Matsuoka <sup>3</sup> , T. Kawahara <sup>4</sup> , S. Takumi <sup>1</sup> (1.Grad.Sch.Agric.Sci., Kobe U. 2.Food Resources Education and Research Ctr., Kofu U. 3.Dept.Bioscience, Fukui Prefectural Univ. 4.Grad.Sch.Agr., Kyoto U.)
506	Diversification of morphological traits through west-to-east dispersal in <i>Aegilops tauschii</i> Coss. ○S. Takumi <sup>1</sup> , E. Nishioka <sup>1</sup> , H. Morihiro <sup>1</sup> , H. Hatano <sup>1</sup> , Y. Matsuoka <sup>2</sup> (1.Grad. Sch. Agric. Sci., Kobe U. 2.Dept. Biosci., Fukui Pref. U.)
507	Genetic diversity of wheat landraces in Afghanistan. VI. Analysis of hardness. ○ Y. Terasawa <sup>1,2</sup> , K. Takata <sup>3</sup> , K. Kawahara <sup>4</sup> , H. Hirano <sup>1</sup> , T. Sasakuma <sup>1</sup> , T. Sasanuma <sup>2</sup> (1.International Grad.Sch.Arts Sci.,Yokohama City U. 2.Fac.Agr.,Yamagata U. 3.Natl.Agr.Res.Ctr.Western Region 4.Grad.Sch.Agr.,Kyoto U.)
508	dCAPS analysis of U genome specific sequence U31 to reveal multiple origin of U genome <i>Aegilops</i> species. ○H. Murakami <sup>1</sup> , T. Kawahara <sup>2</sup> , T. Abe <sup>1</sup> , T. Sasanuma <sup>1</sup> (1.Fac.Agr., Yamagata U. 2.Grad.Sch.Agr., Kyoto U.)
510	Genetic characterization of NERICA varieties. 5) Chromosome segments originated from <i>O. glaberrima</i> . ○Y. Fukuta <sup>1</sup> , S. Yanagihara <sup>1</sup> , H. Tsunematsu <sup>2</sup> , S. Namai <sup>1</sup> , K. Konisho <sup>3</sup> , A. Fukuo <sup>1</sup> , A. Kawasaki <sup>1</sup> , M. Hirae <sup>4</sup> , M. Hattori <sup>5</sup> (1.JIRCAS 2.NICS 3.Nagano 4.Horuriku RC. 5.NIAS)
511	Comparison of the cytoplasmic variety in AA genome species wild rice. ○Y. Hao <sup>1</sup> , T. Ishii <sup>2</sup> , R. Ishikawa <sup>1</sup> (1.Fac.Agric.Life Sci., Hirosaki U. 2.Grad.Sch.Agric., Kobe U.)
512	Characterization of new Pina null mutations among Asian common wheats. ○T. Ikeda <sup>1</sup> , H. Cong <sup>2</sup> , K. Takata <sup>1</sup> , T. Suzuki <sup>3</sup> (1.National Agricultural Research Center for western region 2.Institute of Crop Germplasm Resources, Xinjiang Academy of Agricultural Sciences 3.Hokkaido Central Agricultural Experiment Station)
514	Search for gene regions related to flowering and contribution to photoperiod response in <i>Fagopyrum esculentum</i> . ○T. Hara <sup>1</sup> , H. Iwata <sup>2</sup> , K. Okuno <sup>1</sup> , R. Ohsawa <sup>1</sup> (1.Grad.Sch.Life and Envi.Sci.,U.Tsukuba 2.NARC)

515	QTL analysis of heterostyly in <i>Primula sieboldii</i> . ○ Y. Yoshida <sup>1</sup> , S. Ueno <sup>2</sup> , M. Honjo <sup>3</sup> , N. Kitamoto <sup>4</sup> , M. Nagai <sup>5</sup> , I. Washitani <sup>5</sup> , Y. Tsumura <sup>2</sup> , R. Ohsawa <sup>1</sup> (1.Grad.Sch.Life Envi.Sci., U.Tsukuba 2.FFPRI 3.NARCT 4.Fac. Agri., Iwate U. 5.Grad.Sch.Agric.Life Sci., U.Tokyo)
516	Genetic structure of wild evergreen azalea in Kyushu and its relationship to Edo-Kirishima and Kurume azalea cultivars based on SSR marker analysis. ○ M. Miyawaki <sup>1</sup> , Y. Kurashige <sup>2</sup> , N. Kobayashi <sup>3</sup> , D. Jan <sup>4</sup> , T. Handa <sup>5</sup> , R. Ohsawa <sup>1</sup> (1.Grad.Sch.Life.Envi. Sci., U.Tsukuba 2.Niigata Pref.Bot.Gard 3.Fac.Life.Envi. Sci.,U.Shimane 4. ILVO 5.Fac.Agr., U.Meiji)
517	Phylogenetic relationship of Japanese modern soybean varieties based on SSLP analyses. ○T. Hwang, T. Sayama, Y. Nakamoto, K. Komatsu, H. Funatsuki, M. Ishimoto (NARCH)
518	Soybean cyst nematode resistance found in wild relative of azuki bean. ○S. Aoyama <sup>1,2</sup> , A. Kushida <sup>3</sup> , N. Tomooka <sup>4</sup> , Y. Egawa <sup>5</sup> , C. Suzuki <sup>1</sup> (1.Hokkaido Pref. Tokachi Agri. Exp. Stn. 2.Present:Hokkaido Pref. Kamikawa Agri. Exp. Stn. 3.Natl. Agr. Res. Ctr. Hokkaido 4.Natl. Inst. Agrobiol. Sci. 5.Trop. Agr. Res. Front, JIRCAS)
519	Development of core collection for wild accession of <i>Lotus japonicus</i> based on SSR marker and morphological characteristics. ○H. Tanaka <sup>1</sup> , S. Kai <sup>2</sup> , M. Hashiguchi <sup>1</sup> , H. Iwata <sup>3</sup> , R. Akashi <sup>1</sup> (1.FSRC, U. Miyazaki 2.Grad. Sch. Agr. Eng., U. Miyazaki 3.NARC)
520	Effect of effective population size, hybridization rate and fitness on the introgression probability from soybean to wild soybean. ○N. Kitamoto <sup>1</sup> , A. Kaga <sup>2</sup> , Y. Kuroda <sup>2</sup> , R. Ohsawa <sup>3</sup> (1.Faculty of Agric., U. Iwate 2.National Inst. of Agrobiological Sciences 3.Grad. Sch. Life and Environmental Sci., U. Tsukuba)
521	Microsatellite variability within and among natural populations of wild radish <i>Raphanus sativus</i> var. hortensis f. raphanistroides in Japan. ○T. Ohsako, M. Yamabuki (Grad.Sch.Life Evriron.Sci, Kyoto Pref. U)
522	Phylogenetic analysis of <i>Brassica rapa</i> L. based on plastid and nuclear microsatellites. ○Y. Takahashi <sup>1</sup> , S. Yokoi <sup>1</sup> , H. Iwata <sup>2</sup> , M. Kawase <sup>3</sup> , Y. Takahata <sup>1</sup> (1.Fac. Agri., U. Iwate 2.NARC 3.NIAS)
523	Evaluation of diversity in Iwateyamanashi populations ( <i>Pyrus</i> spp.) based on DNA and morphological data. ○M. Tachibana <sup>1</sup> , H. Katayama <sup>1</sup> , H. Iketani <sup>2</sup> , T. Yamamoto <sup>2</sup> , C. Uematsu <sup>3</sup> (1.Food Resources Edu. Res. Ctr., Kobe U 2.National Inst of Fruit Science 3.Grad Sch Sci Osaka City U)
524	Strain-typing of dried-shiitake imported from China. ○K. Terashima, C. Funato, K. Hasebe (The Tottori Mycological Institute)
525	Evolutionary process of six-rowed spike in domesticated barley. ○ D. Saisho <sup>1</sup> , P. Mohammad <sup>2</sup> , T. Komatsuda <sup>2</sup> (1.RIB, Okayama U. 2.National Institute of Agrobiological Science)
526	The sequence of <i>Waxy</i> gene in common millet, <i>Panicum miliaceum</i> L. ○K. Fukunaga, A. Numaoka (Fac.Life Environ.Sci., Pref.U.Hiroshima )
527	Development of molecular marker for diversity analysis on <i>Elymus</i> species indigenous to Japan. ○A. Izumizawa <sup>1</sup> , K. Takata <sup>2</sup> , K. Kawaguchi <sup>3</sup> , A. Oyanagi <sup>3</sup> , T. Abe <sup>1</sup> , T. Sasanuma <sup>1</sup> (1.Fac. Agr., Yamagata U. 2.WeNARC 3.NICS)
528	Genetic diversity of Ccs gene involved in the carotenoid synthetic pathway in <i>Capsicum</i> . ○ T. Sasanuma <sup>1</sup> , R. Ichikawa <sup>1,2</sup> , T. Ban <sup>2</sup> (1.Fac.Agr., Yamagata U. 2.Kihara Inst.Biol.Res., Yokohama City U.)

529	Genetic differentiation of cytoplasmic genome based on sequence polymorphism analysis of chloroplast genome in cultivated melon. ○K. Tanaka <sup>1</sup> , Y. Akashi <sup>2</sup> , C. Muto <sup>1</sup> , H. Nishida <sup>2</sup> , M. Khaing <sup>3</sup> , Y. Sato <sup>1</sup> , K. Kato <sup>2</sup> (1.RIHN 2.Grad. Sch. Natural Sci. Tech., Okayama U. 3.VFRDC, Myanmar)
530	Genetic diversity in melon landraces from Vietnam, revealed by the analysis of RAPD. ○P. Phuong Nhi <sup>1</sup> , T. Minh Hang <sup>2</sup> , T. Yamamoto <sup>1</sup> , Y. Akashi <sup>1</sup> , H. Nishida <sup>1</sup> , K. Kato <sup>1</sup> (1.Okayama Univ. 2.Hanoi Univ. of Agr.)
531	Characterization of Iranian melon landraces of Groups Flexuosus and Dudaim, <i>Cucumis melo</i> , by the analysis of morphological characters and RAPD. F. Soltani <sup>1</sup> , ○Y. Akashi <sup>2</sup> , Z. Zamani <sup>1</sup> , M. Mostofi <sup>1</sup> , K. Kato <sup>2</sup> (1.Teheran Univ 2.Grad. Sch. Natural Sci. Tech., Okayama U.)
532	Phylogenetic analysis to clarify the diploid ancestors of polyploid <i>Carthamus</i> species and characteristics of cultivated safflower in Yamagata Prefecture. ○S. Watanabe <sup>1</sup> , D. Sehgal <sup>2</sup> , S. Raina <sup>2</sup> , T. Abe <sup>1</sup> , T. Sasanuma <sup>1</sup> (1.Fac.Agr., Yamagata U. 2.Dep.Bot., U.Delhi)
601	Function of the <i>DROOPING LEAF (DL)</i> gene and midrib formation in rice. ○Y. Ohmori, H. Hirano (Grad. Sch. Sci., Univ. Tokyo)
602	Cloning of <i>DEC</i> gene regulating phyllotaxy in rice. ○J. Itoh <sup>1</sup> , H. Sakakibara <sup>2</sup> , Y. Nagato <sup>1</sup> (1.Grad.Sch.Agric.Life Sci., U.Tokyo 2.RIKEN Plant Science Center)
603	Analysis of asy mutant showing abnormal growth in early development of rice. ○W. Hosoki, J. Ito, Y. Nagato (Grad.Sch.Agric.Life Sci., U.Tokyo)
604	Analysis of genes concerning the formation of lemma and palea in rice. ○T. Kato <sup>1</sup> , Y. Abe <sup>1</sup> , K. Kitagawa <sup>1</sup> , K. Shimizu <sup>1</sup> , T. Ando <sup>2</sup> , I. Kono <sup>2</sup> , M. Yano <sup>3</sup> , H. Kitano <sup>4</sup> , Y. Iwasaki <sup>1</sup> (1.Dept. Biosci., Fukui Pref. Univ. 2.STAFF-Institute 3.NIAS 4.Biosci. Biotech. Cent., Nagoya Univ.)
605	Genetic analysis of a mutant that causes aberrant morphology in the rice spikelet. ○A. Yoshida, H. Hirano (Department of Biological Science, University of Tokyo, Tokyo, Japan)
606	Analysis of aberrant spikelet organs in a rice mutant, <i>rod-like lemma</i> . ○T. Toriba <sup>1</sup> , T. Suzaki <sup>2</sup> , H. Hirano <sup>1</sup> (1.Grad.Sch.Sci., U.Tokyo 2.Institute of Zoology Ruprecht-Karls University Heidelberg)
607	Analysis of osmads13 mutant defective in ovule differentiation in rice. ○S. Yamaki <sup>1</sup> , N. Kurata <sup>1,2</sup> , K. Nonomura <sup>1,2</sup> (1.Natl. Inst. Genet. 2.Sokendai, Life Science)
608	The function of rice <i>FLI</i> gene in panicle development. ○K. Kawakatsu <sup>1</sup> , Y. Nagato <sup>2</sup> , T. Izawa <sup>1</sup> (1.NIAS2.Grad.Sch.Agric.Life Sci., U.Tokyo)
609	Morphological Variations of Lodicules in cultivated barley. ○N. Wang <sup>1</sup> , I. Honda <sup>2</sup> , T. Komatsuda <sup>1</sup> (1.NIAS 2.NIVTS)
610	Interspecific variations in the chasmogamous and cleistogamous flower types in <i>Hordeum</i> . ○N. Ishihara <sup>1</sup> , N. Wang <sup>2</sup> , T. Komatsuda <sup>2</sup> , K. Kakeda <sup>1</sup> (1.Grad. Sch. Bioresour., Mie U. 2.Natl. Inst. Agrobiol. Sci.)
611	Heterochronic development of the floret meristem determines grain number per spikelet in diploid, tetraploid and hexaploid wheats. ○K. Murai <sup>1</sup> , N. Shitsukawa <sup>2</sup> , H. Kinjo <sup>1</sup> , S. Shimada <sup>1</sup> , S. Takumi <sup>3</sup> (1.Dep. Biosci., Fukui Pref. U. 2.RIB, Okayama U. 3.Grad. Sch. Agric. Sci., Kobe U.)
612	Analyses of a barley five-anther mutant, which shows transformation of lodicules into stamen, and approaches for the identification of class-A function gene. ○N. Shitsukawa <sup>1</sup> , K. Murai <sup>2</sup> , S. Taketa <sup>1</sup> (1.Res. Inst. Bioresour., Okayama U. 2.Dep. Biosci., Fukui Pref. U.)

613	Compensation and interaction between RISBZ1 and RPBF during grain filling in rice. ○T. Kawakatsu1, M. Yamamoto1, S. Touno-Momose1,2, H. Yasuda1, F. Takaiwa1 (1.NIAS 2.Chiba Univ.)
614	Analysis of the genes involved in regulation of wheat seed dormancy. ○K. Rikiishi, T. Matsuura, M. Maekawa (Res. Inst. Bioresources, Okayama U.)
615	Identification of a promoter region that determines unequal distribution of soybean seed storage protein $\beta$ conglycinin $\alpha$ subunit during embryogenesis. ○Y. Imoto, T. Yamada, K. Kitamura, A. Kanazawa (Res. Fac. Agr., Hokkaido Univ.)
616	Fine mapping of qLTG11, controlling low-temperature germinability in rice ( <i>Oryza sativa</i> L.). ○N. Iwata, K. Fujino (HOKUREN)
617	An attempt to produce transgenic sugar beets advantageous to biomass production. ○H. Matsuhira1, W. Pan2, H. Tamagake3, H. Anzai2, M. Yoshida1 (1.Natl. Agr. Res. Cent. Hokkaido 2.Gene Res. Ctr., Ibaraki U. 3.Hokkaido Central Agr. Exp. Stn.)
618	Agrobacterium-mediated transformation of blueberry. ○H. Kasuya, H. Anzai (Gene Res. Ctr.,Ibaraki U.)
619	Agrobacterium-mediated elongated PLB transformation of <i>Phalaenopsis</i> . ○S. Enoki, Y. Takahara (BioEngineering, Nagaoka Univ. of Tech.)
620	Characterization of transplastomic tobacco plants containing an APX-SOD operon in the chloroplast genome. ○H. Yamamoto1, S. Morita2, T. Terachi1 (1.Fac. Eng., Kyoto Sangyo U. 2.Grad. Sch. Life and Envi.,Kyoto Pref U.)
621	Development of Agrobacterium-mediated transformation method for wild sugarcane. ○S. Nakayama, K. Osakabe, H. Ichikawa, H. Saika, S. Toki (Natl. Inst. Agrobiol. Sci.)
622	Efficient isolation of transgenic rice cells without using drug resistance selection. ○H. Saika, S. Toki (NIAS)
623	Advanced utilization of thermostable enzymes from hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> in transgenic rice. ○T. Shimizu, H. Anzai (Gene Res. Ctr., Ibaraki U.)
624	The role of rice inositol triphosphate kinase (OsITPK) in inositol phosphate metabolism. ○K. Yoneno, T. Shimokawa, K. Yoshida (Grad.Sch.Agric.Life Sci., U.Tokyo)
625	Complementary test and <i>Tos17</i> -mutation analysis of <i>HWC2</i> , a hybrid weakness gene in rice. ○Y. Okiyama1, K. Ichitani2, N. Katsunuma1, H. Kanamori3, J. Wu4, T. Matsumoto4, A. Miyao4, H. Hirochika4, N. Watanabe1, T. Kuboyama1 (1.Col. Agr., Ibaraki. U. 2.Fac. Agr., Kagoshima U. 3.STAFF Inst. 4.Natl. Inst. Agrobiol. Sci.)
626	Effective rice gene targeting; Amino acid substitution by introducing a point mutation into the <i>OsRac1</i> , a key regulator of rice innate immunity.. ○R. Terada1, Z. Shimatani1, T. Kawasaki2, S. Moritoh1, K. Shimamoto2 (1.NIBB 2.NAIST)
627	The role of ER-chaperone BiP in quality control in rice endosperm. ○Y. Wakasa1, H. Yasuda2, T. Kawakatsu1, S. Hirose3, F. Takawia1 (1.NIAS 2.NARCH 3.NICS)
628	Development of a new gene silencing inducing system using RSIS . ○F. Takaiwa1, H. Yasuda2, Y. Wakasa1, T. Kawakatsu1 (1.National Institute of Agrobiological Sciences 2.National Agricultural Research Center for Hokkaido region)
629	Analysis of carotenoid biosynthetic genes involved in variations of mature fruit color in progenies of interspecific-grafting pepper. ○M. Ishimori1, C. Yamaguchi2, Y. Hirata1 (1.TUAT, Grad.Sch.Agric.2.TUAT, Fac.Agric)
630	GFP expression analysis under estrogen-inducible transgene expression system in rice cultured cells. ○A. Okuzaki, K. Konagaya, M. Tsuda, Y. Tabei (NIAS)

631	Impact of high accumulation of foreign storage proteins on endogenous seed components in soybean. ○K. Takagi <sup>1</sup> , K. Nishizawa <sup>1</sup> , A. Hirose <sup>1</sup> , H. Hasegawa <sup>2</sup> , N. Maruyama <sup>3</sup> , S. Utsumi <sup>3</sup> , T. Terakawa <sup>2</sup> , M. Ishimoto <sup>1</sup> (1.NARCH 2.Hokko Chemical Industry Co. Ltd. 3.Grad. Sch. Agr., Kyoto U.)
632	Production of transgenic soybean with the Alzheimer's disease epitope gene using various seed storage proteins. ○H. Hasegawa <sup>1</sup> , K. Nishizawa <sup>2</sup> , M. Ishimoto <sup>2</sup> , N. Maruyama <sup>3</sup> , S. Utsumi <sup>3</sup> , T. Terakawa <sup>1</sup> (1.Hokko Chem. Industry 2.NICS 3.Kyoto U.)
633	Production of transgenic soybean overexpressing a gene related to lipid synthesis. ○M. Shibata, T. Yamada, J. Abe, K. Kitamura (Grad.Sch.Agr.,Hokkaido U.)
701	Comprehensive analysis of small RNAs in rice reproductive organs.. ○T. Fujioka <sup>1</sup> , K. Suwabe <sup>2</sup> , K. Yano <sup>3</sup> , H. Masuko <sup>1</sup> , F. Kaneko <sup>1</sup> , S. Oda <sup>1</sup> , R. Suzuki <sup>1</sup> , H. Kato <sup>3</sup> , A. Suzuki <sup>3</sup> , A. Makino <sup>4</sup> , T. Mae <sup>4</sup> , M. Endo <sup>5</sup> , M. Kawagishi <sup>5</sup> , G. Suzuki <sup>6</sup> , M. Watanabe <sup>1,7</sup> (1.Grad.Sch.Life Sci., Tohoku Univ. 2.Grad.Sch.Bioresour., Mie Univ. 3.Fac.Agric., Meiji Univ. 4.Grad.Sch.Agric. Sci., Tohoku Univ. 5.Natl.Inst.Crop Sci. 6.Osaka Kyoiku Univ. 7.Fac.Sci., Tohoku Univ.)
702	Rice <i>MEL2</i> gene is required for meiosis progression and conserved among Poaceae species. K. Nonomura <sup>1,2</sup> , M. Nakano <sup>1</sup> , S. Fukuchi <sup>3</sup> , M. Eiguchi <sup>1</sup> , A. Miyao <sup>4</sup> , H. Hirochika <sup>4</sup> , ○N. Kurata <sup>2,5</sup> (1.Exp.Farm, Natl.Inst.Genet. 2.Dep.Life Sci.,Grad.Univ.Adv.Study 3.DDBJ, Natl.Inst.Genet. 4.Natl.Inst.Agr.Sci. 5.Plant Genet., Natl.Inst.Genet.)
703	A candidate gene for genic male-sterility in rice . ○S. Shiokai <sup>1</sup> , Y. Hori <sup>1</sup> , H. Kitashiba <sup>1</sup> , M. Nishimura <sup>2</sup> , T. Nishio <sup>1</sup> (1.Grad. Sch. Agr. Sci., Tohoku 2.NIAS.IRB)
704	Regeneration through direct shoots from different kinds of explants in <i>Citrus reticulata</i> var. honey orange. ○N. Yin Yin <sup>1</sup> , M. Khin Thida <sup>2</sup> , Y. Hirata <sup>1</sup> (1.Grad. Sch. Agric. TUAT 2.Grad. Sch. Agric. YAU, Myanmar)
705	Molecular redundancy of <i>WUSCHEL</i> genes in <i>Legume</i> and their expression analysis. ○T. Kaminishizono <sup>1</sup> , M. Ohshida <sup>1</sup> , S. Takahashi <sup>1</sup> , S. Akada <sup>2</sup> (1.Fac. Agric. Life Sci., Hirosaki U 2.Gene Res. Center, Hirosaki U)
706	QTL analysis for interspecific incompatibility in <i>Brassica rapa</i> . ○H. Udagawa <sup>1</sup> , Y. Ishimaru <sup>1,2</sup> , F. Li <sup>1</sup> , Y. Sato <sup>1,3</sup> , H. Kitashiba <sup>1</sup> , T. Nishio <sup>1</sup> (1.Grad.Sch.Agric.Sci., Tohoku Univ. 2.Jardin 3.NIAS)
707	Mapping of QTL for high level of self-incompatibility in <i>Brassica oleracea</i> L. ○ K. Hatakeyama <sup>1</sup> , A. Horisaki <sup>2</sup> , N. Tanaka <sup>2</sup> , S. Niikura <sup>2</sup> , M. Ishida <sup>1</sup> , S. Matsumoto <sup>1</sup> (1.Natl.Inst.Veg.Tea Sci. 2.Tohoku Seed Co.)
708	Characterization of the F-box gene cluster linked to the <i>S</i> -locus of apple.. ○M. Minamikawa <sup>1</sup> , H. Kakui <sup>1</sup> , N. Kotoda <sup>2</sup> , H. Sassa <sup>1</sup> (1.Grad. Sch. Hort., Chiba U. 2.Natl. Inst. Fruit Tree Sci.)
709	Heterostyly in <i>Linum grandiflorum</i> II: Cloning of cDNAs encoding the floral morph-specific pollen proteins. ○K. Ushijima <sup>1</sup> , Y. Shigezane <sup>2</sup> , H. Mori <sup>3</sup> , T. Kitabata <sup>1</sup> , R. Nakano <sup>1</sup> , Y. Kubo <sup>1</sup> (1.Grad. Sch. Natural Sci. Tech., Okayama U. 2.Fac. Agr., Okayama U. 3.Grad. Sch. Bioagr. Sci., Nagoya U.)
710	Selective flower visiting by pollinators observed in the F <sub>1</sub> seed production field of radish. ○K. Kobayashi <sup>1</sup> , S. Tsukamoto <sup>1</sup> , S. Niikura <sup>2</sup> , R. Ohsawa <sup>1</sup> (1.Grad.Sch.Life&Env.Sci., U.Tsukuba 2.Tohoku Seed Co.)
711	Effect of floral scents and nectar guide give to forage behavior of honey bee in <i>Brassica rapa</i> . ○ S. Tsukamoto <sup>1</sup> , K. Kobayashi <sup>1</sup> , A. Tanaka <sup>2</sup> , A. Horisaki <sup>2</sup> , S. Niikura <sup>2</sup> , R. Ohsawa <sup>1</sup> (1.Grad.Sch.Life.Env.Sci.,Univ.Tsukuba 2.Tohoku Seed Co.)
712	Effect of various wind break nets on paddy field wind and the natural outcross of rice. ○O. Yatou, H. Aoki, K. Yokoyama (Hokuriku Res. Center, Natl. Agr. Res. Center, NARO)

713	Diversity of pollen fertility restorer genes in wild radishes. ○H. Yamagishi, Y. Matsumoto, K. Nishimura, K. Yasumoto (Fac. Eng., Kyoto Sangyo U.)
714	Isolation and structural analysis of the PPR genes linked to a new fertility-restorer gene in Japanese wild radish. . ○K. Yasumoto, T. Terachi, H. Yamagishi (Fac. Eng., Kyoto Sangyo U.)
715	Fertility restoration by nuclear gene, <i>Fr</i> , associated with loss of CMS gene, <i>orf125</i> in Kosena CMS <i>Brassica napus</i> . ○J. Imamura <sup>1</sup> , M. Oshima <sup>2</sup> , M. Watanabe <sup>1</sup> , N. Koizuka <sup>1</sup> , H. Handa <sup>3</sup> (1.Col. Agri., Tamagawa U. 2.Grad. Sch. Life Env. Sci., U. Tsukuba 3.NIAS)
716	Variation of cytoplasmic male sterility (CMS)-related mitochondrial genome observed between cybrid strains derived from wild <i>Solanum</i> spp. and <i>S. melongena</i> . ○ Y. Kitamura <sup>1</sup> ,K. Yasumoto <sup>1</sup> ,T. Saitou <sup>2</sup> ,S. Isshiki <sup>3</sup> ,T. Terachi <sup>1</sup> ,H. Yamagishi <sup>1</sup> (1.Fac. Eng. Kyoto Sangyo U. 2.National Institute of Vegetable and Tea Science, National Agriculture and Food Reserch Organization 3.Fac. Agric., Saga U.)
717	Mitochondrial gene expression profilings in male sterile and restored lines of bread wheat with <i>Aegilops mutica</i> cytoplasm. ○ G. Panayotova <sup>1</sup> , I. Panayotov <sup>2</sup> , C. Nakamura <sup>1</sup> (1.Grad. Sch. Agric. Sci., Kobe U. 2.Institute of Wheat and Sunflower, Bulgaria)
718	Loss or/and gain of plant mitochondrial promoter sequences in Japanese radish. ○T. Kobayashi, J. Imamura, N. Koizuka (Fac. Agr. Tamagawa U.)
719	Mitochondrial dynamics in tapetum cells during the degradation process. ○ M. Nakajima, M. Fujimoto, K. Matsuoka, S. Arimura, N. Tsutsumi (Grad.Sch.Agric.Life Sci., U.Tokyo)
720	Difference in pollen DNA and its methylation status of the reciprocal F <sub>1</sub> hybrids between the common potato and a wild hexaploid species, <i>Solanum demissum</i> . ○R. Sanetomo, K. Hosaka (Food Resources Edu. Res. Ctr., Kobe U. )
721	Genetic analysis of severe growth inhibition in interspecific hybrids between tetraploid wheat and <i>Aegilops tauschii</i> Coss. ○H. Hatano, N. Mizuno, S. Takumi (Grad.Sch.Agric.Sci., Kobe U.)
722	Polymorphisms of genes in the <i>S1</i> locus responsible for reproductive barriers between Asian and African rice species. ○A. Ogino, Y. Koide, K. Onishi, A. Kanazawa, Y. Sano (Res. Fac. Agr., Hokkaido U.)
723	Fine mapping of <i>S13n</i> , a novel neutral allele at the <i>S13</i> locus that induce hybrid sterility between distantly related rice species. ○T. Ikegaya, Y. Koide, Y. Sano, A. Kanazawa (Res. Fac. Agr., Hokkaido U.)
<b>Poster presentations</b>	
P1-01	Development of method for specific-detection of rutinoidase in Tartary buckwheat seeds. ○T. Suzuki, Y. Mukasa, T. Morishita, T. Noda, S. Takigawa, N. Hashimoto, C. Endo, H. Yamauchi (National Agricultural Research Center for Hokkaido Region)
P1-02	Breeding of a new rice cultivar "Tsuyahime" with late, short-culmed, good taste and high quality rice. ○T. Sano <sup>1</sup> , K. Yuki <sup>1</sup> , K. Sato <sup>2</sup> , M. Chuba <sup>3</sup> , H. Sakurada <sup>6</sup> , T. Homma <sup>2</sup> , K. Watanabe <sup>1</sup> , M. Mitobe <sup>4</sup> , H. Miyano <sup>3</sup> , R. Chuba <sup>3</sup> , N. Yokoo <sup>5</sup> , M. Moriya <sup>1</sup> , H. Goto <sup>3</sup> , N. Saito <sup>1</sup> , K. Saito <sup>1</sup> (1.Yamagata Integrated Agr. Res. Cent., Rice Breeding and Crop Sci. Exp. Stn. 2.Yamagata Pref. Office 3.Shonai Area Gene. Branch Admin. Office 4.Yamagata Pref. College of Agr. 5.Murayama Area Gene. Branch Admin. Office 6.Former Shonai Area Gene. Branch Admin. Office)
P1-03	Breeding of new spring malting barley cultivar 'Hokuiku 41' with high quality and barley lines for food with high beta-glucan content in Hokkaido. ○ T. Hoki <sup>1</sup> , R. Kanatani <sup>1</sup> , W. Saito <sup>1</sup> , S. Takahashi <sup>1</sup> , M. Kihara <sup>1</sup> , T. Tanaka <sup>2</sup> , M. Sato <sup>2</sup> , H. Miyamoto <sup>2</sup> , Y. Yoshimura <sup>2</sup> , M. Ikenaga <sup>3</sup> , S. Asayama <sup>3</sup> , K. Hayashi <sup>1</sup> (1.BRDD, Sapporo Breweries Ltd. 2.Hokkaido Pref. Kitami Agr. Exp. Stn. 3.Hokkaido Pref. Central Agr. Exp. Stn.)

<b>P1-04</b>	Breeding of a high $\beta$ -carotene content new sweetpotato variety "Tamaakane" with breeding and direct planting adaptability. ○T. Sakai, K. Katayama, Y. Kai, M. Yoshinaga (Natl. Agr. Res. Cent. Kyushu-Okinawa)
<b>P1-05</b>	Development of male-sterile line in perennial ryegrass ( <i>Lolium perenne</i> L.). ○A. Arakawa <sup>1</sup> , M. Fujimori <sup>2</sup> , S. Sugita <sup>3</sup> , K. Uchiyama <sup>1</sup> , K. Mizuno <sup>1</sup> (1.National Institute of Livestock and Grassland Science 2.Yamanashi Prefectural Daily Experiment Station 3.Japan Grassland Farming Forage Seed Association)
<b>P1-06</b>	A new extra strong hard red winter wheat variety "Yumechikara" with high resistance to wheat yellow mosaic virus. ○T. Tabiki <sup>1</sup> , Z. Nishio <sup>1</sup> , M. Ito <sup>1</sup> , H. Yamauchi <sup>1</sup> , K. Takata <sup>2</sup> , T. Kuwabara <sup>3</sup> , N. Iriki <sup>4</sup> , M. Tanio <sup>5</sup> , T. Ikeda <sup>2</sup> , W. Funatsuki <sup>1</sup> (1.NARCH 2.WeNARC 3.Ex. NARCH 4.NICS 5.NARC)
<b>P1-07</b>	The effect of double layer medium on anther culture of gentian. ○J. Lee <sup>1</sup> , S. Yokoi <sup>1</sup> , M. Nishihara <sup>2</sup> , Y. Takahata <sup>1</sup> (1.Faculty of agriculture, Iwate University 2.Iwate Biotechnology Research Center)
<b>P1-08</b>	Examination of the chromosome doubling condition in sweet sorghum. ○E. Inoue, J. Nishigaki, Y. Nitta, T. Homma, T. Matsuda, K. Narisawa, Y. Kurusu, H. Ohta, S. Chonan, Y. Miyaguchi, A. Toyoda, T. Kato, H. Kobayashi, M. Komatsuzaki, T. Sato, K. Yoshida (College of Agric., Ibaraki U.)
<b>P1-09</b>	Chilling tolerance and agronomic traits of the transgenic rice overexpressing the ascorbate peroxidase gene, <i>APXa</i> . ○Y. Sato <sup>1</sup> , Y. Masuta <sup>1</sup> , S. Murayama <sup>1</sup> , K. Saito <sup>1</sup> , K. Ozawa <sup>2</sup> (1.National Agricultural Research Center for Hokkaido Region 2.National Institute of Agrobiological Sciences)
<b>P1-10</b>	Expression analysis of the candidates of the rice stripe resistance gene, <i>Stvb-i</i> . ○Y. Hayano-Saito <sup>1</sup> , M. Takahashi <sup>2</sup> , K. Ishikawa <sup>3</sup> , K. Saito <sup>1</sup> (1.NARCH 2.NARC 3.WeNARC)
<b>P1-11</b>	Evaluation of resistance to infection of Fusarium head blight in wheat. ○K. Kubo <sup>1</sup> , K. Hatta <sup>1</sup> , M. Fujita <sup>1</sup> , N. Kawada <sup>1</sup> , S. Oda <sup>2</sup> , T. Ushiyama <sup>3</sup> , K. Nakamura <sup>4</sup> , T. Nakajima <sup>1</sup> (1.KONARC/NARO 2.NICS/NARO 3.Nagano Agric. Exp. Sta. 4.NARCT/NARO)
<b>P1-12</b>	Temperature condition for expression of late maturity alpha-amylase in bread wheat. ○S. Oda <sup>1</sup> , K. Kubo <sup>2</sup> , K. Hatta <sup>2</sup> , M. Fujita <sup>2</sup> (1.National Institute of Crop Science 2.National Agricultural Research Center for Kyushu Okinawa Region)
<b>P1-13</b>	Effects of wheat yellow mosaic resistance gene Ymlb in Hokkaido and Kyushu.. ○Z. Nishio, T. Tabiki, M. Ito, K. Nagasawa, A. Hayata, H. Yamauchi (Natl. Agr. Res. Ctr. for Hokkaido Region)
<b>P1-14</b>	Salinity tolerance improvement in <i>Zoysia</i> species by crossing with <i>Z. sinica</i> . ○Y. Matsuda, H. Kaneko, T. Murata (Sch.Agric., Tokai U.)
<b>P1-15</b>	Observation in inhibited growth of moss protonema in the presence of heavy metals. ○A. Fujino <sup>1</sup> , Y. Takahara <sup>2</sup> (1.Bioengineering, Nagaoka Univ. of Tech. 2.Nagaoka Univ. of Tech.)
<b>P1-16</b>	Development of new biological assay for soybean cyst nematode resistance using plastic container. ○C. Ikeda <sup>1</sup> , M. Miyamoto <sup>2</sup> , K. Okano <sup>1</sup> , M. Hirayama <sup>1</sup> (1.Plant Biotech. Inst. Ibaraki Agri. Center 2.Present Ibaraki Pref. Gov.)
<b>P1-17</b>	Detection of QTLs for cold tolerance at the booting stage in a rice line Hokkai-PL9. ○M. Kuroki <sup>1</sup> , S. Matsuba <sup>1</sup> , K. Saito <sup>1</sup> , N. Yokogami <sup>1</sup> , Y. Sato <sup>1</sup> , I. Ando <sup>2</sup> , H. (1.Natl. Agr. Res. Ctr. Hokkaido, NARO 2.Natl. Inst. Crop Sci., NARO)
<b>P1-18</b>	Is the RNA editing activity in rice mitochondria after cold treatment associated with splicing? ○S. Kurihara-Yonemoto <sup>1</sup> , T. Kubo <sup>2</sup> (1.National Agricultural Research Center for Hokkaido Region 2.Res. Fac. Agriculture, Hokkaido University)
<b>P1-19</b>	QTL analysis of Anthracnose resistance in tea cultivar "Minamisayaka". ○F. Taniguchi, K. Yoshida, J. Tanaka, A. Ogino (National Institute of Vegetable and Tea Science, NARO)
<b>P1-20</b>	Variation in seed-flooding tolerance among soybean varieties under aerobic and anaerobic condition. ○K. Hirata <sup>1</sup> , N. Hirota <sup>1</sup> , M. Teraishi <sup>1</sup> , T. Yoshikawa <sup>2</sup> , T. Tsukiyama <sup>1</sup> , Y. Okumoto <sup>1</sup> , T. Tanisaka <sup>1</sup> (1.Grad. Sch. Agric., U. Kyoto 2.Grad. Sch. Agric. Life Sci., U. Tokyo)

<b>P1-21</b>	Genetic analysis of resistance to Southern Bean Mosaic Virus in soybean. ○M. Saruta, Y. Takada, A. Okabe (WeNARC)
<b>P1-22</b>	Metal contents analysis of <i>Chloris virgata</i> and rice metallothionein1 transgenic Arabidopsis. ○S. Nishiuchi1, S. Liu2, T. Takano1 (1.ANESC, U.Tokyo 2.Northeast Forestry University, China )
<b>P1-23</b>	Effect of spike characters on resistance to Fusarium head blight in barley. ○T. Yoshioka, E. Aoki, T. Tonooka (Natl. Inst. Crop Sci., NARO)
<b>P1-24</b>	Functional comparison of K <sup>+</sup> channel $\alpha$ and $\beta$ subunit of rice and alkali grass: The role of K <sup>+</sup> channel $\alpha$ and $\beta$ subunit interaction in K <sup>+</sup> -nutrition. ○S. Ardie1, S. Liu2, T. Takano1 (1.ANESC, U. Tokyo 2.Northeast Forestry University, China)
<b>P1-25</b>	Genetic relationship between maturity and field resistance to Phytophthora stem rot of adzuki bean caused by <i>Phytophthora vignae</i> f. sp. <i>adzukicola</i> . ○ S. Fujita1, R. Ogura2, K. Suzuki2, A. Tazawa3, S. Aoyama2, H. Shimada3 (1.Hokkaido Pref.Central Agri.Exp.Stn. 2.Hokkaido Pref.Kamikawa Agri.Exp.Stn. 3.Hokkaido Pref.Tokachi Agri.Exp.Stn.)
<b>P1-26</b>	Metabolome analysis of cold and ABA stress responses in wheat seedlings. ○E. Shimosaka, S. Murayama (Natl.Agr.Res.Cent.Hokkaido., NARO)
<b>P1-27</b>	Increased dry matter content in the storage roots of transgenic sweetpotato plants overexpressing a Dof transcription factor <i>SRF1</i> . ○ M. Tanaka1,3, Y. Takahata1, H. Nakayama1, M. Nakatani2, M. Tahara3 (1.KONARC, NARO 2.JIRCAS 3.Grad. Sch. Nat. Sci. Tec., Okayama U.)
<b>P1-28</b>	Properties of transgenic sweetpotato with reduced expression of starch synthase II. ○ Y. Takahata1, M. Tanaka1, M. Otani2, K. Katayama1, K. Kitahara3, O. Nakayachi2, H. Nakayama1, M. Yoshinaga1 (1.KONARC/NARO 2.Ishikawa Pref. Univ. 3.Kagoshima Univ.)
<b>P1-29</b>	Monosomic analysis of kernel size and shape in wheat. ○H. Tanaka, M. Takahara, H. Tsujimoto (Fac. Agr., Tottori U.)
<b>P1-30</b>	Isolation of rice mutants have high potential for root system development. ○M. Obara1, A. Abe2, H. Kanzaki1, H. Matsumura1, R. Terauchi1 (1.Iwate Biotechnology Research Center 2.Iwate Agricultural Research Center)
<b>P1-31</b>	Annual Differences of Plant Growth in Sweet Sorghum ( <i>Sorghum bicolor</i> (L.)Moench) with Special Reference to Sugar Production. ○T. Homma1, A. Kamiyama1, Y. Nitta1, R. Kobayashi1, R. Umehara1, T. Matsuda1, S. Nakamura2, Y. Goto3, E. Inoue1, K. Narisawa1, Y. Kurusu1, H. Ohta1, S. Chonan1, Y. Miyaguchi1, A. Toyoda1, T. Kato1, H. Kobayashi1, M. Komatsuzaki1, T. Sato1, K. Yoshida1 (1.Coll. Agric., Ibaraki U. 2.Sch. Food Agric. Env. Sci., Miyagi U. 3.Grad. Sch. Agric. Sci., Tohoku U.)
<b>P1-32</b>	Vitalization effect of atmospheric NO <sub>x</sub> on plants. ○ M. Takahashi1, A. Sakamoto1, H. Ezura2, H. Morikawa1 (1.Grad. Sch. Sci., Hiroshima U. 2.Grad.Sch.Life Environ. Sci., U. Tsukuba)
<b>P1-33</b>	Companion cell-specific Arabidopsis <i>TRT1</i> gene promotes plant flowering and etiolation. ○R. Tsuwamoto, T. Harada (Fac. Agric. Life Sci., Hirosaki U.)
<b>P1-34</b>	Expression patterns of <i>PIN</i> genes in rice. Y. Miyashita1, 2,○Y. Ito1 (1.Grad. Sch. Agri. Sci., Tohoku Univ. 2.Grad. Sch. Biostu., Kyoto Univ.)
<b>P1-35</b>	Effect of wheat photoperiod-insensitive gene <i>Ppd-B1</i> in Japanese early heading cultivars. ○M. Seki1,2, M. Chono1, H. Matsunaka1, K. Kato2, M. Fujita3, S. Oda1, K. Kubo3, C. Kiribuchi-Otobe1, H. Kojima1 (1.NICS/NARO 2.Grad.Sch.Natural Sci.Tech.,Okayama Univ. 3.KONARC/NARO)
<b>P1-36</b>	Analysis of double mutants in which the heterotrimeric G protein $\alpha$ subunit gene and the brassinosteroid related genes were deficient. ○Y. Izawa1, K. Oki1, H. Kitano2, Y. Iwasaki1 (1.Dept. Biosci., Fukui Pref. Univ. 2.Biosci. Biotech. Cent., Nagoya Univ.)
<b>P1-37</b>	Analysis of rice transformants in which the expression of the heterotrimeric G protein $\beta$ subunit gene was suppressed by the RNAi method. ○Y. Utsunomiya, C. Samejima, H. Kato, Y. Fujisawa, Y. Iwasaki (Dept. Biosci. , Fukui Pref. Univ.)

<b>P1-38</b>	Genetic analysis of earliness in <i>Brassica napus</i> . ○T. Kitaura <sup>1</sup> , N. Kita <sup>1</sup> , R. Osawa <sup>2</sup> (1.Kanagawa Agri. Tech. C. 2.Grad. Sch. Life. Envi. Sci., U. Tsukuba)
<b>P1-39</b>	Structural analysis of promoter regions of genes involving synthesis of various components accumulated in sesame seeds. ○H. Kadoya <sup>1</sup> , M. Yamamoto <sup>1</sup> , K. Masuda <sup>2</sup> , T. Wakasugi <sup>1</sup> , K. Yamada <sup>1</sup> (1.Grad. Sch. Sci. Eng., U. Toyama 2.Fac. Sci., U. Toyama)
<b>P1-40</b>	Expression pattern of <i>TFL</i> and <i>LFY</i> related with development of inflorescence architecture in radish( <i>Raphanus sativus</i> ). ○Y. Morimoto, R. Shishido, K. Nomura (Coll. Bioresource Sci., Nihon U.)
<b>P1-41</b>	Analysis of a seed-specific tonoplast intrinsic protein (TIP) in wheat. ○S. Utsugi, M. Katsuhara, M. Maekawa (Res.Inst.Biores., Okayama U.)
<b>P1-42</b>	QTL analysis of dwarf and sugar content in Sorghum. X. Song <sup>1</sup> , K. Ohmae <sup>2</sup> , S. Kasuga <sup>1,3</sup> , K. Ohmae <sup>1</sup> , T. Yamamura <sup>1</sup> , M. Matsuoka <sup>1</sup> , ○T. Sazuka <sup>1</sup> (1.Bio. and Biotech. Ctr., Nagoya Univ. 2.Edu. Res. Ctr. of Alp. Field Sci., Shinshu Univ. 3.QTL Genomics Res. Ctr., Nat. Inst. Agr.Sci.)
<b>P1-43</b>	Molecular markers closely linked to sex determining genes in <i>Spinacia oleracea</i> L. ○H. Masumo <sup>1</sup> , Y. Onodera <sup>2</sup> , T. Mikami <sup>2</sup> (1.Laboratory of Genetic Engineering, Research Faculty of Agriculture, Hokkaido University 2.Laboratory of Genetic Engineering, Research Faculty of Agriculture, Hokkaido University)
<b>P1-44</b>	Repetitive DNA elements derived from A and D genomes of wheat. ○M. Tomita, M. Asao, A. Kuraki (Fac. Agr., Tottori U.)
<b>P1-45</b>	DNA marking, a tool for cultivar and origin identification in pear 4. Analysis of <i> copia </i> retrotransposons in Japanese pear. ○H. Kim <sup>1</sup> , F. Hosaka <sup>1</sup> , S. Terakami <sup>1</sup> , C. Nishitani <sup>1</sup> , Y. Sawamura <sup>1</sup> , T. Matsuyama <sup>2</sup> , T. Yamamoto <sup>1</sup> (1.NIFTS, NARO 2.DRI, RIKEN)
<b>P1-46</b>	Development of SSR markers and construction of genetic linkage maps in <i>Petunia</i> . ○A. Otaka <sup>1</sup> , T. Kawai <sup>1</sup> , S. Kobayashi <sup>1</sup> , H. Toyama <sup>1</sup> , T. Ando <sup>2</sup> , N. Watanabe <sup>1</sup> , T. Kuboyama <sup>1</sup> (1.Sch.Agr.,Ibaraki U. 2.Faculty of Horticulture, Chiba University)
<b>P1-47</b>	Single nucleotide polymorphism in ESTs among cultivated tomato ( <i>Solanum lycopersicum</i> L.). ○K. Shirasawa, S. Isobe, T. Fujishiro, S. Sato, S. Tabata (Kazusa DNA Res. Inst.)
<b>P1-48</b>	Development of SSR markers in radish. ○R. Nakatsuji <sup>1</sup> , T. Hashida <sup>1</sup> , N. Kubo <sup>1,2</sup> , M. Hirai <sup>1,2</sup> (1.Grad. Sch. Life Environ. Sci., Kyoto Pref. U. 2.Biotechnol. Res. Dept., Kyoto Pref. Agric. Forest. Fish. Technol. Cent.)
<b>P1-49</b>	Identification of DNA markers associated with resistance to southern root-knot nematode in sweetpotato. ○H. Nakayama <sup>1</sup> , M. Tanaka <sup>1</sup> , Y. Takahata <sup>1</sup> , M. Yoshinaga <sup>1</sup> , H. Iwahori <sup>1</sup> , Z. Sano <sup>2</sup> (1.KONARC/NARO 2.Snow Brand Seed Co., Ltd.)
<b>P1-50</b>	Positional cloning of a QTL, <i>qCdt7</i> , controlling cadmium translocation. ○H. Miyadate <sup>1</sup> , K. Tezuka <sup>1</sup> , S. Adachi <sup>1</sup> , A. Hiraizumi <sup>1</sup> , N. Satoh-Nagasawa <sup>1</sup> , A. Watanabe <sup>1</sup> , K. Sakurai <sup>1</sup> , H. Takahashi <sup>1</sup> , T. Kawamoto <sup>2</sup> , K. Kato <sup>2</sup> , I. Kodama <sup>2</sup> , S. Masaki <sup>2</sup> , H. Akagi <sup>1</sup> (1.Fac. Biores. Sci., Akita Pref. Univ. 2.Akita Agri. Exp. Sta.)
<b>P1-51</b>	QTL analysis for cadmium accumulation in a cadmium hyper accumulating rice cultivar, ChoKhoKoku. ○K. Tezuka <sup>1</sup> , H. Miyadate <sup>1</sup> , N. Satoh-Nagasawa <sup>1</sup> , A. Watanabe <sup>1</sup> , K. Sakurai <sup>1</sup> , H. Takahashi <sup>1</sup> , T. Kawamoto <sup>2</sup> , K. Kato <sup>2</sup> , I. Kodama <sup>2</sup> , S. Masaki <sup>2</sup> , H. Satoh <sup>3</sup> , M. Yamaguchi <sup>3</sup> , H. Akagi <sup>1</sup> (1.Fac. Biores. Sci., Akita Pref. Univ. 2.Akita Agri. Exp. Sta. 3.NARCT)
<b>P1-52</b>	Selective impact on the genomic region of <i>sh4</i> gene during rice domestication. ○Z. Zhu <sup>1</sup> , T. Ito <sup>2</sup> , H. Kanamori <sup>2</sup> , Y. Ito <sup>2</sup> , H. Ikawa <sup>2</sup> , D. Vaughan <sup>3</sup> , T. Sasaki <sup>1</sup> , T. Matsumoto <sup>1</sup> , J. Wu <sup>1</sup> (1.Plant Genome Res., NIAS 2.Res. Division 1, STAFF-Institute 3.Genebank, NIAS)

<b>P1-53</b>	Analysis of sequence diversity and haplotypes in genomic regions of grain number related genes using the two populations of cultivated and wild rice species. ○H. Yamane <sup>1</sup> , T. Ito <sup>1</sup> , H. Ishikubo <sup>1</sup> , W. Karasawa <sup>1</sup> , K. Kamiya <sup>1</sup> , H. Yamagata <sup>1</sup> , H. Kanamori <sup>1</sup> , Y. Ito <sup>1</sup> , M. Shibata <sup>1</sup> , M. Hamada <sup>1</sup> , H. Ikawa <sup>1</sup> , T. Sasaki <sup>2</sup> , J. Wu <sup>2</sup> , T. Matsumoto <sup>2</sup> (1.Res. Division 1, STAFF-Institute 2.Plant Genome Res. NIAS)
<b>P1-54</b>	Identification of AFLP markers linked to the gene for Multiple Organ Gigantism (MOG) in black gram ( <i>Vigna mungo</i> ). ○N. Tomooka <sup>1,2</sup> , A. Kaga <sup>1</sup> , K. Hirano <sup>1,2</sup> , D. Vaughan <sup>1</sup> (1.National Institute of Agrobiological Sciences 2.Graduate School of Agriculture,Tokyo University of Agriculture)
<b>P1-55</b>	Genetic variation and QTLs of the vascular bundle system related to panicle traits in rice. ○M. Ikeda <sup>1</sup> , Y. Shibata <sup>2</sup> , T. Yamamura <sup>3</sup> , Y. Hirose <sup>4</sup> , T. Takashi <sup>5</sup> , K. Doi <sup>1</sup> , M. Ashikari <sup>3</sup> , M. Matsuoka <sup>3</sup> , H. Kitano <sup>3</sup> (1.Grad. Sch. Bioagr. Sci., Nagoya U. 2.Grad. Sch. Educ., Aichi U. Educ. 3.Biosci. Biotech. Ctr., Nagoya U. 4.Honda R&D Co., Ltd. 5.HRI-JP)
<b>P1-56</b>	Screening of candidate genes of Japanese cedar male sterile mutant, called 'Soshun'. ○M. Tsubomura <sup>1</sup> , M. Kurita <sup>2</sup> , Y. Kawai-Munehara <sup>1</sup> , A. Watanabe <sup>1</sup> (1.Forest Breeding Center, Forestry and Forest Products Research Institute)
<b>P1-57</b>	An attempt to construct a genetic linkage map of sesame: genetic analysis of favorable characters and development of DNA markers. ○K. Fujiwara <sup>1</sup> , M. Yamamoto <sup>1</sup> , K. Masuda <sup>2</sup> , T. Wakasugi <sup>1</sup> , K. Yamada <sup>1</sup> (1.Grad. Sch. Sci. Eng., U. Toyama 2.Fac. Sci., U. Toyama)
<b>P1-58</b>	Comparison of chromosomes bearing rDNA among <i>Brachiaria</i> species. ○Y. Akiyama <sup>1</sup> , H. Yamada-Akiyama <sup>2</sup> , K. Kouki <sup>3</sup> ,M. Ebina <sup>2</sup> (1.NARCT 2.NILGS 3.Okinawa Pref. Lives. Grassl. Res. Cen.)
<b>P1-59</b>	Mapping candidate QTLs related to stress tolerance and its genetic diversity in red clover. ○S. Isobe <sup>1</sup> , K. Irina <sup>2</sup> , R. Nadejda <sup>2</sup> , K. Okumura <sup>3</sup> , K. Nikoly <sup>2</sup> (1.Kazusa DNA Res. Inst. 2.All-Russian Williams Fodder Crop Res. Inst. 3.National Agric. Res. Inst. for Hokkaido. Reg.)
<b>P1-60</b>	Construction of linkage map toward gene isolation controlling paternal inheritance of rapeseed mitochondrial plasmid. ○M. Oshima <sup>1,2</sup> , H. Handa <sup>1,2</sup> (1.Grad. Sch. Life & Env. Sci., U. Tsukuba 2.NIAS)
<b>P1-61</b>	Putative QTL conferring with cool temperature tolerance in the short arm on rice chromosome 3. ○T. Endo <sup>1</sup> , K. Nakagomi <sup>2</sup> , M. Yamaguchi <sup>2</sup> , T. Kataoka <sup>3</sup> , M. Suto <sup>4</sup> , S. Kanda <sup>4</sup> , T. Ono <sup>4</sup> (1.Miyagi Furukawa Agr. Exp. Stn. 2.Natl. Agric. Res. Cent. Tohoku Reg. 3.Natl. Agric. Res. Cent. Kyushu Okinawa Reg. 4.Aomori Indus. Tech. Res. Cen.)
<b>P1-62</b>	Development of a large number of dot-blot-SNP markers for <i>Raphanus</i> genome study. Y. Hasegawa <sup>1</sup> , S. Shiokai <sup>1</sup> , F. Li <sup>1</sup> , H. Fujii <sup>2</sup> , H. Kitashiba <sup>1</sup> , ○T. Nishio <sup>1</sup> (1.Grad. Sch. Agric. Sci., Tohoku Univ. 2.Natl. Inst. Fruit Sci.)
<b>P1-63</b>	Phenotypic variations in root shape traits among F2 population and the parental lines in <i>Brassica rapa</i> L. ○H. Zaki <sup>1</sup> , S. Yokoi <sup>1</sup> , T. Mikami <sup>2</sup> , Y. Takahata <sup>1</sup> (1.Fac. of Agri., Iwate U 2.Research and Development Division, MIKADO KYOWA SEED CO., LTD)
<b>P1-64</b>	Development of EST-SSR markers in cultivated peanut. ○Y. Naito <sup>1</sup> , S. Suzuki <sup>2</sup> , M. Hasegawa <sup>2</sup> , M. Watanabe <sup>2</sup> , T. Kuboyama <sup>3</sup> , S. Isobe <sup>4</sup> , S. Sato <sup>4</sup> , K. Shirasawa <sup>4</sup> , S. Sasamoto <sup>4</sup> , S. Tabata <sup>4</sup> (1.Mitsubishi Chemical Medience Corporation 2.Chiba Prefectural Agriculture and Forestry Research Center 3.School of Agriculture, Ibaraki University 4.Kazusa DNA Research Insitute)
<b>P1-65</b>	Application of sex-linked primers in wild species and interspecific hybrids in the genus <i>Asparagus</i> . ○A. Kanno, I. Konno (Grad. Sch. Life Sci., Tohoku Univ.)
<b>P1-66</b>	QTL analysis for seed dormancy in rice respond to seed development environment. ○D. Tezuka, R. Shishido, K. Nomura (Coll. Bioresource Sci., Nihon U.)
<b>P1-67</b>	Regulatory network construction from large-scale gene expression data in rice. ○K. Hamada <sup>1</sup> , S. Kikuchi <sup>1</sup> , T. Mochizuki <sup>2</sup> , N. Kurata <sup>2</sup> , K. Yano <sup>1</sup> (1.Bioinf., Fac. Agri., Meiji Univ. 2.Natl. Inst. Genet.)

<b>P1-68</b>	Mapping of quantitative trait loci controlling mesocotyl elongation in Rice ( <i>Oryza sativa</i> L.). H. Lee, K. Sasaki, A. Higashitani, ○T. Sato (Grad. Sch. Life Sci., U. Tohoku)
<b>P1-69</b>	Rice gene expression profile generated from various tissues and organs. ○B. Antonio1, Y. Sato1, R. Motoyama1, H. Takehisa1, M. Igarashi1, K. Sugimoto2, Y. Nagamura1 (1.Genome Resource Center, National Institute of Agrobiological Sciences 2.QTL Genomics Research Center, National Institute of Agrobiological Sciences)
<b>P1-70</b>	Identification of genes expressing during early stage of endosperm development in rice. ○M. Mizutani, K. Tsutsumi, Y. Saitoh (CRC, Fac. Agri., Iwate Univ.)
<b>P1-71</b>	Proteomic analysis of RNA-binding proteins in the developing seeds of rice. ○N. Sano1, S. Masaki1, T. Tanabata2, T. Yamada1, M. Kanekatsu1 (1.Grad. Sch. Agr.,Tokyo U. Agr. Tec. 2.NIAS)
<b>P1-72</b>	Proteomic analysis of proteins in the seeds of soybean grown at low temperature. ○Y. Uchida1, H. Funatsuki2, S. Ohnishi3, T. Tanabata4, T. Yamada1, M. Kanekatsu1 (1.Grad. Sch. Agr., Tokyo U. Agr. Tec 2.Natl. Agric. Res. Ctr. Hokkaido 3.Hokkaido Central Agr. Exp. Sta 4.Grad. Sch. BASE., Tokyo U. Agr. Tec)
<b>P2-01</b>	Rice phenotype database and tools. (2) Comparison of chromosomal locations among representative rice QTLs and genes. ○J. Yonemaru, T. Yamamoto, S. Fukuoka, Y. Uga, K. Hori, M. Yano (Natl. Inst. Agr. Sci.)
<b>P2-02</b>	New distribution system of plant genetic resources in the NIAS Genebank project. ○ T. Nishikawa, D. Vaughan, N. Tomooka, H. Okuizumi, A. Kaga, K. Fukui, K. Tomioka, F. Kenmochi, M. Kawase (Natl. Inst. Agr. Sci.)
<b>P2-03</b>	Allelic diversification at the <i>wx</i> locus in landraces of Asian rice, showing an introgression of the <i>wx</i> allele from japonica to indica subspecies. I. Mikami1,2, N. Uwatoko1, Y. Ikeda1, J. Yamaguchi1, H. Hirano3, Y. Suzuki4, ○Y. Sano1 (1.Grad. Sch. Agr., Hokkaido U. 2.NARO, Natl. Food Res.Inst. 3.Grad. Sch. Sci., Univ. Tokyo 4.NARO, Natl. Inst. Crop Sci.)
<b>P2-04</b>	Development of biodiversity risk assessment methods on transgenic sweet potato.I. Collection of native species and cross mating with sweet potato in Japan. ○Y. Okada, Y. Takahata, M. Yoshinaga (KONARC)
<b>P2-05</b>	Development and utilization of tomato Micro-Tom biological resources. ○ E. Asamizu1, T. Ariizumi1, T. Saito1, K. Aoki2, A. Suzuki3, K. Yano3, Y. Yamazaki4, T. Mizoguchi1, C. Matsukura1, N. Fukuda1, H. Ezura1 (1.Grad.Sch.Life.Env.Sci., U.Tsukuba 2.Kazusa DNA Res.Inst. 3.Sch.Agr., Meiji Univ. 4.Natl.Inst.Genetics)
<b>P2-06</b>	A novel manual pooling system for preparing three dimensional pools of a deep coverage soybean bacterial artificial chromosome library. ○Z. Xia1, S. Watanabe1, Q. Chen2, S. Sato3, K. Harada1 (1.NIAS 2.Harbin Northeast Agri. Univ. 3.Kazusa DNA Research Institute)
<b>P2-07</b>	Chloroplast DNA Variation in the cultivated strawberry, <i>Fragaria x ananassa</i> . ○ M. Honjo1, S. Kataoka1, S. Yui1, M. Morishita1, M. Kunihisa2, T. Yano1, M. Hamano1, H. Yamazaki1 (1.NARCT 2.NIVT)
<b>P2-08</b>	Genetic variation and geographical distribution in <i>Aegilops neglecta</i> - <i>Ae. columnaris</i> species complex: polyploidy, morphology and hybrid sterility. ○S. Ohta1, Y. Fujita1, Y. Maesaka1, R. Iwasaki1, N. Mori2, H. Ozkan3 (1.Dep. Biosci., Fukui Pref. U. 2.Grad. Sch. Agric. Sci., Kobe U. 3.Fac. Agric., U. Cukurova, Turkey)
<b>P2-09</b>	Genetic diversity of chloroplast genome in free-threshing emmer wheat. ○ T. Takagi1, N. Mori1, T. Kawahara2, C. Nakamura1 (1.Grad.Sch.Agric.Sci., Kobe U. 2.Grad.Sch.Appl.Biol.Sci., Kyoto U.)
<b>P2-10</b>	Genetic diversity and geographical differentiation of chloroplast genomes in <i>Aegilops neglecta</i> and <i>Ae.columnaris</i> . ○Y. Yasugi1, N. Mori1, S. Ohta2 (1.Grad.Sch.Agric.Sci., Kobe U. 2.Dep.Biosci., Fukui Pref. U.)
<b>P2-11</b>	Variation in the seed-propagated progenies of reed( <i>Phragmites australis</i> ). ○T. Araki1,A. Kosugi2,A. Shimizu1,H. Hasegawa1(1.Sch. Environ. Sci., Univ. Shiga Pref.2.Grad. Sch. Agr., Kyoto Univ.)

<b>P2-12</b>	Analysis of expressed sequence tags from a NaHCO <sub>3</sub> -treated alkali-tolerant plant, <i>Chloris virgata</i> . S. Nishiuti <sup>1</sup> , ○ K. Fujihara <sup>1</sup> , S. Liu <sup>2</sup> , T. Takano <sup>1</sup> (1.ANESC, U. Tokyo 2.Northeast Forestry University, China)
<b>P2-13</b>	Variation in nuclear DNA content of <i>Primula jesoana</i> in the wild population of Hokkaido. R. Kanehara <sup>1</sup> , Y. Sato <sup>2</sup> , M. Hayashi <sup>3</sup> , T. Nogami <sup>4</sup> , M. Mii <sup>3</sup> , ○ J. Kato <sup>1</sup> , N. Wagatsuma <sup>2</sup> (1.Dep. Biol., Aichi U. Educ. 2.Rakuno Gakuen U. 3.Grad. Sch. Hort., Chiba U. 4.Hakusan Nature Conserv. Cent.)
<b>P2-14</b>	Low temperature seed germination of sugar beet. ○Y. Kuroda, H. Takahashi, K. Taguchi, K. Okazaki, H. Abe (NARCH, NARO)
<b>P2-15</b>	Genetic relationship in the genus <i>Spinacia</i> . ○Y. Ito, Y. Onodera, T. Mikami (Grad. Sch. Agric., Hokkaido U.)
<b>P2-16</b>	Overexpression of a cellulase gene in rice toward application to the cellulosic-ethanol production. ○ M. Nigorikawa, Y. Ito (Institution Name Graduate School of Agricultural Science, Tohoku University)
<b>P2-17</b>	In29, a homolog of gene encoding leucine-rich repeat transmembrane protein kinase, is involved in petal senescence in Japanese morning glory ( <i>Ipomoea nil</i> ). ○M. Li <sup>1</sup> , T. Suzuki <sup>1</sup> , K. Shimizu <sup>2</sup> , T. Tanabata <sup>3</sup> , Y. Shinozaki <sup>1</sup> , A. Takahashi <sup>1</sup> , K. Shibuya <sup>4</sup> , K. Ichimura <sup>4</sup> , T. Yamada <sup>1</sup> , M. Kanekatsu <sup>1</sup> (1.Grad.Sch.Agric., Tokyo U.Agr.Tec. 2.Fac.Agr., Kagoshima U. 3.NIAS 4.NIFS)
<b>P2-18</b>	Introduction and accumulation of wheat friabilin-related genes in rice. ○G. Suzuki <sup>1</sup> , Y. Wada <sup>1</sup> , H. Wada <sup>1</sup> , H. Goto <sup>1</sup> , A. Nakano <sup>1</sup> , N. Wada <sup>2</sup> , S. Kajiyama <sup>3</sup> , K. Fukui <sup>2</sup> , Y. Mukai <sup>1</sup> (1.Div. Nat. Sci., Osaka Kyoiku U. 2.Grad. Sch. Eng., Osaka U. 3.Grad. Sch. Biotech., Kinki U.)
<b>P2-19</b>	Gene silencing of endogenous GSA-AT by small RNA. ○A. Kasai, S. Bai, T. Harada (Fac. Agric. Life. Sci., Hirosaki U.)
<b>P2-20</b>	Efficient transformation of barley using the rice mutated acetolactate synthase gene as the selectable marker. ○T. Ogawa, H. Kawahigashi, H. Handa (NIAS)
<b>P2-21</b>	High efficiency <i>Agrobacterium</i> -mediated transformation system of rice III The labor savings of using appropriate protocols. ○K. Ozawa, F. Takaiwa (Natl. Inst. Agrobio. Sci.)
<b>P2-22</b>	Analysis of mutations induced by gamma irradiation in rice. ○R. Morita <sup>1</sup> , M. Kusaba <sup>2</sup> , M. Nishimura <sup>1</sup> (1.NIAS, IRB 2.Grad.Sch. Sci., Hiroshima U.)
<b>P2-23</b>	Relationship between flower colour and carotenoids in yellow petals of <i>Pelargonium</i> section <i>Hoarea</i> . ○ P. Sukhumpinij <sup>1</sup> , F. Kakihara <sup>1</sup> , K. Hondo <sup>1</sup> , M. Kato <sup>1</sup> (1.The United Graduate School of Agriculture Science, Ehime University 2.Fac.Agric., Ehime Uni. 3.Fac.Agric., Ehime Uni. 4.Fac.Agric., Ehime Uni.)
<b>P2-24</b>	GAI mRNA transport in two directions between stock and scion in <i>Malus</i> . ○H. Xu <sup>1</sup> , T. Harada <sup>1</sup> , T. Li <sup>2</sup> (1.Fac. Agric. Life Sci., Hirosaki U. Hirosaki 2.College. Agric. Biotech., China Agric. U.)
<b>P2-25</b>	Genetic transformation for suppression of tea caffeine synthase in <i>Camellia sinensis</i> . ○N. Kageyama <sup>1</sup> , K. Furukawa <sup>1</sup> , A. Yamada <sup>2</sup> , A. Yanagida <sup>2</sup> , T. Tsuneyoshi <sup>3</sup> (1.Numazu National College of Technology 2.Suzuki Motor Corporation 3.Shizuoka Institute of Science of Technology )
<b>P2-26</b>	Detection of gene mutation from MDA-amplified soybean mutant libraries by using TILLING method. ○H. Nakashima, T. Anai (Fac. Agric., Saga U.)
<b>P2-27</b>	Improvement of <i>Agrobacterium</i> -mediated transformation of cucumber and introduction of <i>relin</i> genes for phytoremediation. ○K. Konagaya <sup>1</sup> , A. Okuzaki <sup>1</sup> , Y. Nanasato <sup>1</sup> , M. Tsuda <sup>1</sup> , M. Ishitsuka <sup>2</sup> , Y. Nagata <sup>2</sup> , M. Tsuda <sup>2</sup> , Y. Tabei <sup>1</sup> (1.NIAS 2.Grad. Sch. Life Sci., Tohoku U.)

<b>P2-28</b>	Expression of defense-related genes in the hybrid lethal seedlings between <i>Nicotiana suaveolens</i> and <i>N. tabacum</i> . ○S. Nomura <sup>1</sup> , Y. Shinozaki <sup>2</sup> , T. Yamada <sup>2</sup> , M. Kanekatsu <sup>2</sup> , W. Marubashi <sup>1</sup> (1.Sch. Agr., Meiji U. 2.Grad. Sch. Agr., Tokyo U. Agr. Tec.)
<b>P2-29</b>	Influence of pollen parent in interspecific hybridization between <i>Brassica</i> wild species and <i>B. rapa</i> . ○S. Shim, B. Jeong, S. Bang, Y. Kaneko (Faculty of Agric.Utsunomiya Univ.)
<b>P2-30</b>	Morphological variation and dormancy in F <sub>1</sub> progenies derived from crosses between <i>Zoysia japonica</i> and <i>Zoysia matrella</i> . ○M. Ikezaki <sup>1</sup> , H. Tanaka <sup>2</sup> , M. Hashiguchi <sup>2</sup> , T. Nakayama <sup>3</sup> , S. Tsuruta <sup>3</sup> , S. Isobe <sup>4</sup> , T. Tabata <sup>4</sup> , R. Akashi <sup>2</sup> (1.Grad. Sch. Agric., U. Miyazaki 2.FSRC, U. Miyazaki 3.Fac. Agric., U. Miyazaki 4.Inst. Kazusa DNA)
<b>P2-31</b>	Characteristics and Mass Propagation in Dwarfing Congograss ( <i>Imperata cylindrica</i> L.) Induced by Heavy Ion Beam. ○N. Kamikawa <sup>1</sup> , Y. Shigeki <sup>2</sup> , T. Abe <sup>3</sup> , T. Gondou <sup>4</sup> , R. Akashi <sup>4</sup> (1.Grad. Sch. Agric., U. Miyazaki 2.Fuji Chemical Co.,Ltd 3.RIKEN Nishina Center 4.FSRC, U. Miyazaki)
<b>P2-32</b>	Analysis of Aux/IAA14 transcript long-distance transport through phloem in Malus. ○A. Kanehira, K. Yamada, T. Harada (Fac.Agric.Life Sci.,Hirosaki U.Hirosaki)
<b>P2-33</b>	Predominant formation of 4x progeny in carnation crosses between 2x cultivars (CC genome) and the allotetraploid (CCCJ) strains with one genome of <i>D. japonicus</i> . ○S. Matsubara <sup>1</sup> , Y. Okumura <sup>2</sup> , M. Nimura <sup>2</sup> , H. Hattori <sup>2</sup> , M. Mii <sup>3</sup> , K. Ohishi <sup>2</sup> , J. Kato <sup>1</sup> (1.Dep. Biol., Aichi U. Educ. 2.Aichi pref. Agric Res. Ctr. 3.Grad. Sch. Hort., Chiba U.)
<b>P2-34</b>	Isolation of ethylene-related mutants from the EMS-mutagenized lines of tomato dwarf variety Micro-Tom. ○Y. Okabe, E. Asamizu, T. Ariizumi, H. Ezura (Grad. Sch. Life. Env. Sci., U. Tsukuba)
<b>P2-35</b>	Localization and structure of transgene products in the endosperm cells of transgenic rice expressing major mite allergen (der f2) of <i>D. farinae</i> . ○S. Hirose <sup>1</sup> , L. Yang <sup>2</sup> , K. Suzuki <sup>3</sup> , F. Takaiwa <sup>2</sup> (1.National Institute of Crop Science 2.National Institute of Agrobiological Sciences 3.The Tokyo Metropolitan Institute of Medical Science )
<b>P2-36</b>	Generation of marker-free transformants recombinase-gene under the control of male germline specific promoter. ○K. Miyahara (National Institute of Agrobiological Science)
<b>P2-37</b>	The transformation methods in <i>Camellia sinensis</i> . ○K. Furukawa <sup>1</sup> , Y. Katsumata <sup>1</sup> , M. Kato <sup>1</sup> , A. Yamada <sup>2</sup> , A. Yanagida <sup>2</sup> , T. Tsuneyoshi <sup>3</sup> (1.Numazu National College of Technology 2.Suzuki Motor Corporation 3.Shizuoka Intsitute of Science of Technology)
<b>P2-38</b>	Analysis of mutations induced by heavy ion beam irradiation in rice. ○Y. Hayashi <sup>1</sup> , H. Takehisa <sup>1</sup> , Y. Kazama <sup>1</sup> , S. Ohbu <sup>1</sup> , H. Tokairin <sup>1</sup> , T. Sato <sup>2</sup> , T. Abel <sup>1</sup> (1.RIKEN Nishina Cent. 2.Grad.Sch.Life Sci., Tohoku U.)
<b>P2-39</b>	Effects of ion species using heavy-ion beam on mutation induction and DNA damage in <i>Arabidopsis thaliana</i> . ○T. Hirano <sup>1</sup> , Y. Kazama <sup>1</sup> , Y. Liu <sup>2</sup> , S. Ohbu <sup>1</sup> , Y. Hayashi <sup>1</sup> , Y. Hayashi <sup>1</sup> , T. Matsuyama <sup>3</sup> , T. Abel <sup>1</sup> (1.RIKEN Nishina Cent. 2.Inst. Modern Phys., Chin. Acad. Sci. 3.RIKEN Plant Breeding & Cell Engn. Res. Unit)
<b>P2-40</b>	Characterization of pasting properties for brewer's rice. ○K. Okamoto, K. Kosuge, T. Manabe, M. Hirayama (IBARAKI Agricultural Center Plant-Biotechnology Institute)
<b>P2-41</b>	Characteristics of rice seed spherosomes in phospholipase D null mutant. ○Y. Suzuki <sup>1</sup> , T. Matsuda <sup>2</sup> , K. Shirasawa <sup>1,3</sup> , N. Iwasawa <sup>1,2</sup> (1.NARO, Natl. Inst. Crop Sci. 2.Col. Agr., Ibaraki U. 3.Kazusa DNA Res. Inst.)
<b>P2-42</b>	Analysis of taste components of cooked rice by Capillary Electrophoresis Mass Spectrometer. ○H. Goto <sup>1</sup> , T. Sano <sup>2</sup> , K. Ootomo <sup>1,3</sup> , T. Soga <sup>1</sup> , K. Yuki <sup>2</sup> (1.Inst. Adv. Biosci., Keio Univ., 2.Rice Breeding and Crop Sci. Exp. Stn., Yamagata Integrated Agr. Res. Cent., 3.Spiber Inc.)

<b>P2-43</b>	Inheritance of low starch pasting temperature in sweetpotato. ○ K. Katayama <sup>1</sup> , S. Tamiya <sup>2</sup> , T. Sakai <sup>1</sup> , Y. Kai <sup>1</sup> , M. Yoshinaga <sup>1</sup> (1.KONARC/NARO 2.NARCH/NARO)
<b>P2-44</b>	Selection of cultivar with SASANISHIKI type good eating quality by cooked rice character. ○ K. Nagano <sup>1</sup> , K. Sasaki <sup>1</sup> , K. Wagatsuma <sup>1</sup> , T. Endo <sup>1</sup> , K. Suzuki <sup>2</sup> , H. Okadome <sup>2</sup> , K. Ohtsubo <sup>3</sup> (1.Miyagi Pref. Furukawa Agr. Exp. Stn. 2.Natl. Food Res. Inst. 3.Fac. Agr. Niigata U.)
<b>P2-45</b>	Softening effect of chromosome 5H on grain hardness in <i>Hordeum</i> chromosome addition lines of wheat. ○K. Takata, M. Yanaka, T. Ikeda (WeNARC)
<b>P2-46</b>	Changes in the contents of the functional components of sweetpotato 'Suioh' tops at harvest date, constituent part and storage. ○K. Ishiguro <sup>1</sup> , J. Toyama <sup>2</sup> , O. Yamakawa <sup>3</sup> , M. Yoshimoto <sup>1</sup> (1.KONARC, NARO 2.FSRC, Univ. Miyazaki 3.STAFF)
<b>P2-47</b>	Relationship between endosperm cell walls and grain hardness in barley. ○ T. Tonooka <sup>1,2</sup> , E. Aoki <sup>1</sup> , T. Yoshioka <sup>1</sup> , M. Fujita <sup>1,3</sup> , C. Kiribuchi-Otobe <sup>1,2</sup> (1.Natl. Inst. Crop Sci., NARO 2.Grad. Sch. Life Envir. Sci., U. Tsukuba 3.Natl. Agric. Res. Cent. Kyushu Okinawa)
<b>P2-48</b>	Identification of the responsible gene for floury endosperm in rice variety "Hokkai 303". ○S. Matsuba, W. Funatsuki, M. Kuroki, N. Yokogami, H. Shimizu (Natl. Agr. Res. Cent. Hokkaido Region)
<b>P2-49</b>	Comparative Characterization of Novel Glutenin Proteins in Common Bread Wheat ( <i>Triticum aestivum</i> L.). ○ M. Abuhena <sup>1</sup> , K. Kim <sup>1</sup> , K. Shin <sup>1</sup> , H. Seo <sup>1</sup> , H. Hirano <sup>2</sup> , C. Park <sup>3</sup> , H. Her <sup>4</sup> , H. Tsujimoto <sup>5</sup> , S. WOO <sup>1</sup> (1.Department of Crop Science, Chungbuk National University,, Korea 2.Department of Supramolecular Biology, Yokohama City University 3.Agricultural Research Institute, National Institute of Crop Science, Korea 4.Breeding Resource Development, National Institute of Crop Science, Korea 5.Faculty of Agriculture, Lab. of Plant Genetics and Breeding Science, Tottori University)
<b>P2-50</b>	Varietal differences in the response of the amylose content of the low-amylose rice near-isogenic lines to different temperature during the ripening period. ○S. Moriyama, S. Kanda, T. Ono, C. Kon, M. Suto (AITC AFRI)
<b>P2-51</b>	Cadmium concentration in grains of Japanese wheat cultivars: Relationship with minerals, ash and protein concentration.. ○H. Matsunaka <sup>1</sup> , M. Seki <sup>1</sup> , K. Kimura <sup>2</sup> , K. Kubo <sup>3</sup> , M. Fujita <sup>3</sup> , M. Chono <sup>1</sup> , C. Kiribuchi-Otobe <sup>1</sup> , H. Kojima <sup>1</sup> , S. Oda <sup>1</sup> (1.NICS 2.Miyagi Univ. 3.KONARC)
<b>P2-52</b>	Glycoalkaloid content in transgenic potatoes with abiotic stress tolerances. ○ S. Kahn, H. Nakajyo, T. Shimazaki, K. Yamada, H. Shigemori, A. Kikuchi, K. Watanabe (Grad.Sch.Life&Env.Sci., U.of Tsukuba)
<b>P2-53</b>	Effect of Light and Dark Condition on Rutin, Quercetin and Protein Density in Buckwheat Sprouts. ○D. Shin <sup>1</sup> , T. Suzuki <sup>4</sup> , T. Adachi <sup>5</sup> , M. Lee <sup>2</sup> , K. Chung <sup>3</sup> , M. Han <sup>1</sup> , H. Kim <sup>1</sup> (1.Department of Crop Science, Chungbuk National Univ., Korea 2.Department of Industrial Plant, Chungbuk National Univ., Korea 3.Department of Agricultural Chemistry Chungbuk National Univ., Korea 4.NARCH 5.Prev. Professor Venture Business Laboratory, Center for Advanced Science and Innovation, Osaka City Univ.)
<b>P2-54</b>	Studies on genetic improvement of isoflavone content in Black-seeded soybean "Shintanbaguro". ○Y. Minamiyama <sup>1</sup> , N. Furutani <sup>2</sup> (1.Biotech. Res. Dep., Kyoto Pref. Agr. Tech. Center 2.Kyoto Pref. Agr. Tech. Center)
<b>P2-55</b>	Eating quality Evaluation of a New Cultivar "Tsuyahime" 1.Taste Evaluation of Cooked Rice by Physical Measurements. ○ M. Moriya <sup>1</sup> , N. Asanome <sup>2</sup> , K. Suzuki <sup>3</sup> (1.Rice Breeding and Crop Sci. Exp Stn., Yamagata Integrated Agr Res Cent. 2.Yamagata Integrated Agr Res Cent. 3.National Food Research Institute)

<b>P2-56</b>	The genetic variations of the grain hardness related genes <i>Hina</i> and <i>Gsp</i> among barley cultivars/lines. ○A. Takahashi, T. Ikeda, T. Nagamine, T. Yanagisawa (WeNARC)
<b>P2-57</b>	Effect of sampling time on caffeic acid derivatives content in sweetpotato leaves. ○Y. Kai, K. Katayama, T. Sakai, M. Yoshinaga (KONARC/NARO)
<b>P2-58</b>	Factors of cleistogamy in bread wheat cv."U24". ○M. Fujita <sup>1</sup> , Y. Watanabe <sup>2</sup> , K. Kubo <sup>1</sup> , K. Hatta <sup>1</sup> , S. Oda <sup>3</sup> , H. Matsunaka <sup>3</sup> (1.KONARC/NARO 2.NARC/NARO 3.NICS/NARO)
<b>P2-59</b>	Diversity of a CMS-associated gene in BT-CMS, <i>orf79</i> in rice core collections and wild rice. ○M. Yamada <sup>1</sup> , S. Fujii <sup>2</sup> , K. Toriyama <sup>1</sup> (1.Grad. Sch. Agric. Sci., Tohoku Univ. 2.ARC Centre of Excellence in Plant Energy Biol, U. Western Australia)
<b>P2-60</b>	Macroarray analysis of nuclear genes that are differentially expressed between normal and cytoplasmic male sterile anther of sugar beet. ○M. Ono, H. Matsuhira, T. Kubo, T. Mikami (Grad. Sch. Agri, Hokkaido Univ. )
<b>P2-61</b>	Analysis of fertility restorer gene for BT-type CMS of indica cultivar Kasalath in rice. ○E. Itabashi, K. Toriyama (Grad.Sch.Agric.Sci., U.Tohoku)
<b>P2-62</b>	Comparative analysis of <i>Rfl</i> orthologues among sugar beet and Beta species. ○T. Matsumoto, Y. Kamei, Y. Hamaguchi, T. Kubo, T. Mikami (Grad. Sch. Agr., Hokkaido U.)
<b>P2-63</b>	Diallel analysis of callus formation and plant regeneration trait in sugar beet( <i>Beta vulgaris</i> ). ○H. Kagami <sup>1</sup> , T. Kubo <sup>1</sup> , K. Taguchi <sup>2</sup> , T. Mikami <sup>1</sup> (1.Grad. Sch. Agr., Hokkaido U. 2.NARCH)
<b>P2-64</b>	Relation between fruit set by self-pollination and self-incompatible genes in 'Karafuto zumi' apple. ○Y. Niwata <sup>1</sup> , N. Satoh <sup>2</sup> , H. Takahashi <sup>1,2</sup> , A. Watanabe <sup>1,2</sup> , H. Akagi <sup>1,2</sup> , M. Wada <sup>3</sup> , K. Abe <sup>3</sup> , K. Sakurai <sup>1,2</sup> (1.Grad. Sch. Biores. Sci., Akita Pref. Univ. 2.Fac. Biores. Sci., Akita Pref. Univ. 3.National Inst. of Fruit Tree Sci.)
<b>P2-65</b>	Improvement of the method for <i>S</i> screening in <i>Brassica</i> genus by dot-blot analysis. ○E. Oikawa, H. Kitashiba, T. Nishio (Grad.Sch.Agric.Life Sci., Tohoku Univ.)
<b>P2-66</b>	Structure and variation of the Rf gene locus for Ogura male-sterility in European cultivated radish. ○E. Tomioka, K. Yasumoto, H. Yamagishi, T. Terachi (Fac.Eng.,Kyoto Sangyo U.)
<b>P2-67</b>	Fitness of interspecific hybrid ( <i>Brassica juncea</i> x <i>B. napus</i> ) and their progeny under greenhouse and experimental field. ○M. Tsuda <sup>1</sup> , K. Konagaya <sup>1</sup> , A. Okuzaki <sup>1</sup> , Y. Kaneko <sup>2</sup> , Y. Tabei <sup>1</sup> (1.NIAS 2.Fac. Agri., U. Utsunomiya)
<b>P2-68</b>	Induction of highly regenerative callus derived from axillary bud of stem in <i>Zoysia matrella</i> . ○T. Gondo, R. Akashi (Frontier Science Research Center, University of Miyazaki)
<b>P2-69</b>	Control of pollen dispersal in red clover using the biological buffer zone. ○K. Okumura <sup>1</sup> , J. Chen <sup>1,2</sup> , M. Shiyomi <sup>3</sup> , H. Takada <sup>1</sup> , K. Hiroi <sup>1</sup> (1.Natl.Agr.Res.Center for Hokkaido Region 2.Northwest A&F University 3.Ibaraki University)
<b>P2-70</b>	Heterostyly in buckwheat. I. Genetic characterization of a self-compatible mutant. ○J. Aii <sup>1</sup> , E. Koyama <sup>2</sup> , M. Sakurai <sup>1</sup> , N. Hiraoka <sup>1</sup> , M. Nagaono <sup>3</sup> , C. Campbell <sup>3</sup> (1.NUPALS 2.Res. Inst. Biores., Okayama U. 3.KADE research)
<b>P2-71</b>	Heterostyly in buckwheat. II. Screening of the dimorphic self-incompatibility candidate genes by using cDNA-AFLP. ○T. Funaki <sup>1</sup> , S. Satou <sup>1</sup> , F. Kojima <sup>1</sup> , N. Hiraoka <sup>1</sup> , M. Nagano <sup>2</sup> , C. Campbell <sup>2</sup> , J. Aii <sup>1</sup> (1.NUPALS2.KADE research)