

2019

Saito N., Encabo J.R., Chen S., Jonson G., Kishima Y., Choi I.R. (2019)
Innate vulnerability of *Oryza glaberrima* to rice tungro bacilliform virus.
Japan Agricultural Research Quarterly 53, 1-6.

2018

Kanaoka Y., Kuniyoshi D., Inada E., Koide Y., Okamoto Y., Yasui H., Kishima Y. (2018)

Anther culture in rice proportionally rescues microspores according to gametophytic gene effect and enhances genetic study of hybrid sterility.

Plant Methods 14, 102.

Chen S., Saito N., Encabo J.R., Yamada K., Choi I.R., Kishima Y. (2018)
Ancient endogenous pararetroviruses in *Oryza* genomes provide Insights into the heterogeneity of viral gene macroevolution.

Genome Biology and Evolution 10, 2686-2696.

Fujita, D., Koide, Y., Kobayashi, N. (2018)

Genetic dissection of agronomic traits in introgression lines and improvement of an elite Indica rice variety.

Japan Agricultural Research Quarterly 52, 91-103.

Koide, Y., Ogino, A., Yoshikawa, T., Kitashima, Y., Saito, N., Kanaoka, Y., Onishi, K., Yoshitake, T., Tsukiyama, T., Saito, H., Teraishi, M., Yamagata, Y., Uemura, A., Takagi, H., Hayashi, Y., Abe, T., Fukuta, Y., Okumoto, Y., Kanazawa, A. (2018)

Lineage-specific gene acquisition or loss is involved in interspecific hybrid sterility in rice.

Proceedings of the National Academy of Sciences of the United States of America 115, E1955-E1962.

Koide, Y., Obara, M., Yanagihara, S., Fukuta, Y. (2018)

Identification of QTLs for agronomic characteristics in an upland New Rice for Africa (NERICA) variety.

Japan Agricultural Research Quarterly 52, 29-37.

2017

Chen, S., Zheng, H., Kishima, Y. (2017)

Genomic fossils reveal adaptation of non-autonomous pararetroviruses driven by concerted evolution of noncoding regulatory sequences.

Zhou, H., Kishima, Y. (2017)

Alternative plant host defense against transposon activities occurs at the post-translational stage.

Plant Signaling & Behavior 13, e1318238.

Zhou, H., Hirata, M., Osawa, R., Fujino, K., Kishima, Y. (2017)

Detainment of Tam3 transposase at plasma membrane by its BED-zinc finger domain.

Plant Physiology 173, 1492-1501.

Kinoshita, N., Kato, M., Koyasaki, K., Kawashima T., Nishimura, T.,

Hirayama, Y., Takamure, I., Sato, T., Kato K. (2017)

Identification of quantitative trait loci for rice grain quality and yield-related traits in two closely related *Oryza sativa* L. subsp. *japonica* cultivars grown near the northernmost limit for rice paddy cultivation.

Breeding Science 67, 191–206.

Ogiso-Tanaka, E., Tanaka, T., Tanaka, K., Nonoue, Y., Sasaki, T., Fushimi, E., Koide, Y., Okumoto, Y., Yano, M., Saito, H. (2017)

Detection of novel QTLs qDTH4.5 and qDTH6.3, which confer late heading under short-day conditions, by SSR marker-based and QTL-seq analysis.

Breeding Science 67, 101-109.

2016

Chen, S., Kishima, Y. (2016)

Endogenous pararetroviruses in rice genomes as a fossil record useful for the emerging field of paleovirology.

Molecular Plant Pathology 17, 1317-1320.

Matsuda, A., Takano, S., Sato, M., Furukawa, K., Nagasawa, H., Yoshikawa, S., Kasuga, J., Tokuji, Y., Yazaki, K., Nakazono, M., Takamure, I., Kato, K. (2016)

Rice stomatal closure requires guard cell plasma membrane ATP-Binding cassette transporter RCN1/OsABCG5.

Molecular Plant 9, 417–427.

Yamauchi, T., Tanaka, A., Mori, H., Takamure, I., Kato, K., Nakazono, M. (2016)

Ethylene-dependent aerenchyma formation in adventitious roots is regulated differently in rice and maize.

Plant, Cell and Environment 39, 2145–2157.

2015

Mikami, T., Kitazaki K., Kishima, Y. (2015)

Cytoplasmic genome diversity in the cultivated apple.

Horticultural Science 42, 47-51.

Takano, S., Matsuda, S., Funabiki, A., Furukawa, J., Yamauchi, T., Tokuj, Y., Nakazono, M., Shinohara, Y., Takamure I., Kato, K. (2015)

The rice RCN11/OsXylT, β 1,2-xylosyltransferase, is involved in plant development and growth in response to multiple abiotic stresses and ABA sensitivity during seed germination.

Plant Science 236, 75-88.

2014

Chen, S., Liu, R., Koyanagi, K.O., Kishima, Y. (2014)

Rice genomes recorded ancient pararetrovirus activities: virus genealogy and multiple origins of endogenization during rice speciation.

Virology 471-473, 141-152.

Ishiguro, S., Ogasawara, K., Fujino, K., Sato, Y., Kishima, Y. (2014)

Low temperature-responsive changes in the anther transcriptome's repeat sequences are indicative of stress sensitivity and pollen sterility in rice strains.

Plant Physiology 164, 671-682.

Ota, Y., Ishiguro, S., Aoyama, E., Aiba, R., Iwashiro, R., Tanabata, T.,

Takamure, I., Fujino, K., Kishima, Y. (2014)

Isolation of a major genetic interaction associated with an extreme phenotype using assorted F2 populations in rice.

Molecular Breeding 33, 997-1003.

Liu, R., Kishima, Y. (2014)

Chapter 12 "Establishment of endogenous pararetroviruses in the rice genome"

Plant Virus-Host Interaction: Molecular Approaches and Viral Evolution: ed Gaur, R.K., Hohn, T., Sharma, P., pp 229-240, Elsevier New York.

Shiono, K., Ando, M., Nishiuchi, S., Takahashi, H., Watanabe, K., Nakamura, M., Matsuo, Y., Yasuno, N., Yamanouchi, U., Fujimoto, M., Takanashi, H., Ranathunge, K., Franke, R. B., Shitan, N., Nishizawa, N. K., Takamure, I., Yano, M., Tsutsumi, N., Schreiber, L., Yazaki, K., Nakazono, M., Kato, K. (2014)

RCN1/OsABCG5, an ATP- binding cassette(ABC) transporter, is required for hypodermal suberization of roots in rice (*Oryza sativa*).

The Plant Journal 80, 40-51

Matsuda, S., Nagasawa, H., Yamashiro, N., Yasuno, N., Watanabe, T., Kitazawa, H., Takano, S., Tokaji, Y., Tani, M., Takamure, I., Kato, K. (2014) Rice RCN1/OsABCG5 mutation alters accumulation of essential and nonessential minerals and causes high Na/K ratio resulting in a salt-sensitive phenotype.

Plant Science 224, 103-111.

2013

Kitazaki, K., Ishiguro, S., Kato, S., Wakatsuki, A., Kishima, Y., Mikami, T. (2013)

Cytoplasmic diversity and possible maternal lineages in apples as revealed by analysis of the mitochondrial *cox1* and *atp9* loci.

Scientia Horticulturae 164, 209-212.

Uchiyama, T., Hiura, S., Ebinuma, I., Senda, M., Mikami, T., Martin, C., Kishima, Y. (2013)
A pair of transposons coordinately suppresses gene expression, independent of pathways mediated by siRNA in *Antirrhinum*.

New Phytologist 197, 431-440.

Funabiki, A., Takano, S., Matsuda, S., Tokaji, Y., Takamure, I., Kato, K. (2013)

The rice *REDUCED CULM NUMBER11* gene controls vegetative growth under low-temperature conditions in paddy fields independent of *RCN1/OsABCG5*.

Plant Science 211, 70-76.

Takano-Kai, N., Jiang, H., Powell, A., McCouch, S., Takamure, I., Furuya, N., Doi, K., Yoshimura, A. (2013)

Multiple and independent origins of short seeded alleles of GS3 in rice.

Breeding Science 63, 77-85.

2012

Liu, R., Koyanagi, K.O., Chen, S., Kishima, Y. (2012)
Evolutionary force of AT-rich repeats to trap genomic and episomal DNAs in
the rice genome: lessons from endogenous pararetrovirus.

The Plant Journal 72, 817-828.

Kato, S., Kitazaki, K., Wakatsuki, A., Kishima, Y., Mikami, T. (2012)
An apple *atp9* pseudogene is maintained at high copy number in 'Golden
Delicious' -type mitochondria but is present substoichiometrically in
'Delicious'-type mitochondria.

Scientia Horticulturae 134, 237-230.

Matsuda, S., Funabiki, A., Furukawa, K., Komori, N., Koike, M., Tokuji, Y.,
Takamure, I., Kato, K. (2012)
Genome-wide analysis and expression Analysis profiling of half-size ABC
protein subgroup G in rice in Response to abiotic stress and phytohormone
treatments.

Molecular Genetics and Genomics 287, 819–835.

Ureshi, A., Matuda, S. Ohashi, E., Onishi, K., Takamure, I., Kato, K. (2012)
Rice RCN1/OsABCG5 mutation is associated with the root development in
response to nutrient shortage.

Plant Root 6, 28-35.

Koide, Y., Shinya, Y., Ikenaga, M., Sawamura, N., Matsubara, K., Onishi, K.,
Kanazawa, A., Sano, Y. (2012).

Complex genetic nature of sex-independent transmission ratio distortion in
Asian rice species: the involvement of unlinked modifiers and sex-specific
mechanisms.

Heredity 108, 242-247.

2011

Fujino, K., Hashida, SN., Ogawa, T., Natsume, T., Uchiyama, T., Mikami, T.,
Kishima, Y. (2011)

Temperature controls nuclear import of Tam3 transposase in *Antirrhinum*.

The Plant Journal 65, 146-155.

Wakatsuki, A., Kitazaki, K., Kato, S., Kishima, Y., Mikami, T. (2011)
An intact mitochondrial *cox1* gene and a pseudogene with different genomic

configurations are present in apple cultivars 'Golden Delicious' and 'Delicious': Evolutionary aspects.

Scientia Horticulturae 130, 49-53.

2010 - 2000

Hu, Z., Yan, H., Yang, J., Yamaguchi, S., Maekawa, M., Takamure, I., Tsutsumi, N., Kyozuka, J., Nakazono, M. (2010) Strigolactones negatively regulate mesocotyl elongation in rice during germination and growth in darkness. **Plant Cell Physiology** 51, 1136-1142.

貴島祐治、堀田夕夏、石黒聖也、山村和照、塙章、内藤聰、佐野芳雄（2010）トランスポンを指標にしたコシヒカリ品種内の遺伝的差異 **育種学研究** 12, 81-86.

Hagiwara, W.E., Uwatoko, N., Sasaki, A., Matsubara, K., Nagano, H., Onishi, K., Sano, Y. (2009) Diversification in flowering time due to tandem FT-like gene duplication, generating novel Mendelian factors in wild and cultivated rice. **Molecular Ecology** 18, 1537-1549.

Yasuno, N., Takamure, I., Kidou, S., Tokuji, Y., Ureshi, A., Funabiki, A., Ashikaga, K., Yamanouchi, U., Yano, M., Kato, K. (2009) Rice shoot branching requires an ATP-binding cassette subfamily G protein. **New Phytologist** 182, 91-101.

Ariyaratne, M., Takamure, I., Kato, K. (2009) Shoot branching control by reduced culm number 4 in rice (*Oryza sativa* L.). **Plant Science** 176, 744-748.

Uchiyama, T., Fujino, K., Ogawa, T., Wakatsuki, A., Kishima, Y., Mikami, T., Sano, Y. (2009) Stable transcription activities dependent on an orientation of Tam3 transposon insertions into *Antirrhinum* and yeast promoters occur only within chromatin. **Plant Physiology** 151, 1557-1569.

Koide, Y., Ikenaga, M., Sawamura, N., Nishimoto, D., Matsubara, K., Onishi, K., Kanazawa, A., Sano, Y. (2008) The evolution of sex-independent transmission ratio distortion involving multiple allelic interactions at a single locus in rice. **Genetics** 180, 409-420.

Koide, Y., Onishi, K., Nishimoto, D., Baruah, AR., Kanazawa, A., Sano, Y. (2008) Sex-independent transmission ratio distortion system responsible for

reproductive barriers between Asian and African rice species. **New Phytologist** 179, 888-900.

Uchiyama, T., Saito, Y., Kuwabara, H., Fujino, K., Kishima, Y., Martin, C., Sano, Y. (2008) Multiple regulatory mechanisms influence the activity of the transposon, *Tam3*, of *Antirrhinum*. **New Phytologist** 179, 343-355.

Koide, Y., Ikenaga, M., Shinya, Y., Matsubara, K., Sano, Y. (2008) Two loosely linked genes controlling the female specificity for cross-incompatibility in rice. **Euphytica** 164, 753-760.

Yan, H., Saika, H., Maekawa, M., Takamure, I., Tsutsumi, N., Kyozuka, J., Nakazono, M. (2007) Rice tillering dwarf mutant dwarf3 has increased leaf longevity during darkness-induced senescence or hydrogen peroxide-induced cell death. **Genes and Genetic Systems** 82, 361-366.

Furukawa, T., Maekawa, M., Oki, T., Suda, I., Iida, S., Shimada, H., Takamure, I., Kadokami, K. (2007) The *Rc* and *Rd* genes are involved in proanthocyanidin synthesis in rice pericarp. **The Plant Journal** 49, 91-102.

Takata, M., Kiyohara, A., Takasu, A., Kishima, Y., Ohtsubo, H., Sano, Y. (2007) Rice transposable elements are characterized by various methylation environments in the genome. **BMC Genomics** 8, 469.

Noro, Y., Takano-Shimizu, T., Syono, K., Kishima, Y., Sano, Y. (2007) Genetic variations in rice in vitro cultures at the EPSPS - RPS20 region. **Theoretical and Applied Genetics** 114, 705-711.

Yasuno, N., Yasui, Y., Takamure, I., Kato, K. (2007) Genetic interaction between 2 tillering genes, reduced culm number 1 (*rcn1*) and tillering dwarf gene *d3*, in rice. **Journal of Heredity** 98, 169-172.

Hashida, S.N., Uchiyama, T., Martin, C., Kishima, Y., Sano, Y., Mikami, T. (2006) The temperature-dependent change in methylation of the *Antirrhinum* transposon tam3 is controlled by the activity of its transposase. **The Plant Cell** 18, 104-118.

Hagiwara, W. E., Onishi, K., Takamure, I., Sano, Y. (2006) Transgressive segregation due to linked QTLs for grain characteristics of rice. **Euphytica** 150, 27-35.

Hashida, S.N., Kishima, Y., Mikami, T. (2005) DNA methylation is not necessary for the inactivation of the Tam3 transposon at non-permissive temperature in *Antirrhinum*. **Journal of Plant Physiology** 162, 1292-1296.

Takata, M., Kishima, Y., Sano, Y. (2005) DNA methylation polymorphisms in rice and wild rice strains: Detection of epigenetic markers. **Breeding Science** 55, 57-63.

Kobayashi, S., Noro, Y., Nagano, H., Yoshida, K. T., Takano-Shimizu, T., Kishima, Y., Sano, Y. (2005) Evidence for an evolutionary force that prevents epigenetic silencing between tail-to-tail rice genes with a short spacer. **Gene** 346, 231-240.

Maekawa, M., Takamure, I., Ahmed, N., Kyozuka, J. (2005) Bunketsu-waito, one of the tillering dwarfs, is controlled by a single recessive gene in rice (*Oryza sativa L.*). **Breeding Science** 55, 193-197.

Ishikawa, S., Maekawa, M., Arite, T., Onishi, K., Takamure, I., Kyozuka, J. (2005) Suppression of tiller bud activity in tillering dwarf mutants of rice. **Plant and Cell Physiology** 46, 79-86.

Saitoh, K., Onishi, K., Mikami, I., Thidar, K., Sano, Y. (2004) Allelic diversification at the C (*OsC1*) locus of wild and cultivated rice: Nucleotide changes associated with phenotypes. **Genetics** 168, 997-1007.

Kunii, M., Kanda, M., Nagano, H., Uyeda, I., Kishima, Y., Sano, Y. (2004) Reconstruction of putative DNA virus from endogenous rice tungro bacilliform virus-like sequences in the rice genome: implications for integration and evolution. **BMC Genomics** 5, 80.

Matsubara, K., Khin-Thidar., Sano, Y. (2003) A gene block causing cross-incompatibility hidden in wild and cultivated rice. **Genetics** 165, 343-352.

Takagi, K., Nagano, H., Kishima, Y., Sano, Y. (2003) MITE-transposon display efficiently detects polymorphisms among the *Oryza* AA-genome species. **Breeding Science** 53, 125-132.

Hashida, S., Kitamura, K., Mikami, T., Kishima, Y. (2003) Temperature shift coordinately changes the activity and the methylation state of transposon Tam3 in *Antirrhinum majus*. **Plant Physiology** 132, 1207-1216.

Nagano, H., Kunii, M., Azuma, T., Kishima, Y., Sano, Y. (2002) Characterization of the repetitive sequences in a 200-kb region around the rice *waxy* locus: diversity of transposable elements and presence of veiled repetitive sequences. **Genes and Genetic Systems** 77, 69-79.

Murai, M., Takamure, I., Sato, S., Tokutome, T., Sato, Y. (2002) Effects of the dwarfing gene originating from 'Dee-geo-woo-gen' on yield and its related traits in rice. **Breeding Science** 52, 95-100.

Kitamura, K., Hashida, S., Mikami, T., Kishima, Y. (2001) Position effect of the excision frequency of the *Antirrhinum* transposon Tam3: implications for the degree of position-dependent methylation in the ends of the element. **Plant Molecular Biology** 47, 475-490.

Nagano, H., Kawasaki, S., Kishima, Y., Sano, Y. (2000) Structural differences in the vicinity of the *waxy* locus among the *Oryza* species with the AA-genome: identification of variable regions. **Theoretical and Applied Genetics** 100, 376-383.