

1. Arakawa T, Matsunaga M, Matsui K, Itoh K, Kuroda Y, Matsuhira H, Kitazaki K, Kubo T, The molecular basis for allelic differences suggests *Restorer-of-fertility 1* is a complex locus in sugar beet (*Beta vulgaris* L.). **BMC Plant Biology**, 20:503, 2020.
2. Arakawa T, Kagami H, Katsuyama T, Kitazaki K, Kubo T, A lineage-specific paralogue of *Oma1* evolved into a gene family from which a suppressor of male sterility-inducing mitochondria emerged in plants. **Genome Biology and Evolution**, 12:2314-2327, 2020.
3. Kim H, Onodera Y, Masuta C, Application of cucumber mosaic virus to efficient induction and long-term maintenance of virus-induced gene silencing in spinach. **Plant Biotechnology**, 37:83-88, 2020.
4. Ukai Y, Inoue K, Kamada M, Teramura H, Yanagisawa S, Kitazaki K, Shoji K, Goto F, Mochida K, Yoshihara T, Shimada H, De novo transcriptome analysis reveals an unperturbed transcriptome under high cadmium conditions in the Cd-hypertolerant fern *Athyrium yokoscense*. **Genes & Genetic Systems**, 95: 65-74, 2020.
5. Kubo T, Arakawa T, Honma Y, Kitazaki K, What does the molecular genetics of different types of *restorer-of-fertility* genes imply?, **Plants**, 9: 361, 2020.
6. Arakawa T, Sugaya H, Katsuyama T, Honma Y, Matsui K, Matsuhira H, Kuroda Y, Kitazaki K, Kubo T, How did a duplicated gene copy evolve into a *restorer-of-fertility* gene in a plant? The case of *Oma1*, **Royal Society Open Science**, 6: 190853, 2019.
7. Okazaki Y, Takahata S, Hirakawa H, Suzuki Y, Onodera Y, Molecular evidence for recent divergence of X- and Y-linked gene pairs in *Spinacia oleracea* L. **PLoS One**, 14: e0214949, 2019.
8. Arakawa T, Ue S, Sano C, Matsunaga M, Kagami H, Yoshida Y, Kuroda Y, Taguchi K, Kitazaki K, Kubo T, Identification and characterization of a semi-dominant *restorer-of-fertility 1* allele in sugar beet (*Beta vulgaris*). **Theoretical and Applied Genetics**, 132: 227-240, 2019.
9. Kudoh T, Takahashi M, Osabe T, Toyoda A, Hirakawa H, Suzuki Y, Ohmido N, Onodera Y, Molecular insights into the non-recombining nature of the spinachmale-determining region. **Molecular Genetics and Genomics**, 293:557-568, 2018.
10. Arakawa T, Uchiyama D, Ohgami T, Ohgami R, Murata T, Honma Y, Hamada H, Kuroda Y, Taguchi K, Kitazaki K, Kubo T, A fertility-restoring genotype of beet (*Beta vulgaris* L.) is composed of a weak *restorer-of-fertility* gene and a modifier gene tightly linked to the *Rfl* locus. **PLoS One**, 13:e0198409, 2018.
11. Kitazaki K, Fukushima A, Nakabayashi R, Okazaki Y, Kobayashi M, Mori T, Nishizawa T, Reyes-Chin-Wo S, Michelmore RW, Saito K, Shoji K, Kusano M, Metabolic reprogramming in leaf lettuce grown under different light quality and intensity conditions using narrow-band LEDs. **Scientific Reports**, 8: 7914, 2018.
12. Takahata S, Yago T, Iwabuchi K, Hirakawa H, Suzuki Y, Onodera Y, Comparison of spinach sex chromosomes with sugar beet autosomes reveals extensive synteny and low recombination at the

- male-determining locus, *Journal of Heredity*, 107:679-685, 2016.
13. Kagami H, Taguchi K, Arakawa T, Kuroda Y, Tamagake H, Kubo T, Efficient callus formation and plant regeneration are heritable characters in sugar beet (*Beta vulgaris* L.), *Hereditas*, 153:12, 2016.
 14. Ohgami T, Uchiyama D, Ue S, Yui-Kurino R, Yoshida Y, Kamei Y, Kuroda Y, Taguchi K, Kubo T, Identification of molecular variants of the nonrestoring *restorer-of-fertility 1* allele in sugar beet (*Beta vulgaris* L.), *Theoretical and Applied Genetics*, 129:675-688, 2016.
 15. Yoshihara T, Tokura A, Hashida SN, Kitazaki K, Asobe M, Enbutsu K, Takenouchi H, Goto F, Shoji K, N₂O emission from a tomato rockwool culture is highly responsive to photoirradiation conditions. *Scientia Horticulturae*, 201: 318-328, 2016.
 16. Fujito S, Takahata S, Suzuki R, Hoshino Y, Ohmido N, Onodera Y, Evidence for a common origin of homomorphic and heteromorphic sex chromosomes in distinct *Spinacia* species, *G3:Genes / Genomes / Genetics*, 5: 1663-1673, 2015.
 17. Kitazaki K, Arakawa T, Matsunaga M, Yui-Kurino R, Matsuhira H, Mikami T, Kubo T, Post-translational mechanisms are associated with fertility restoration of cytoplasmic male sterility in sugar beet (*Beta vulgaris*), *The Plant Journal*, 83: 290-299, 2015.
 18. Onodera Y, Arakawa T, Yui-Kurino R, Yamamoto MP, Kitazaki K, Ebe S, Matsunaga M, Taguchi K, Kuroda Y, Yamashita S, Sakai T, Kinoshita T, Mikami T, Kubo T, Two male sterility-inducing cytoplasms of beet (*Beta vulgaris*) are genetically distinct but have closely related mitochondrial genomes: implication of a substoichiometric mitochondrial DNA molecule in their evolution, *Euphytica*, 206: 365-379, 2015.
 19. Kubo, T, 3.3.3 Sugar beet, *Frontiers of Agricultural Science* (Yoshitaka Uchida, Junichi Kashiwagi, Tetsuya Yamada, Hanako Shimura, Satoshi Koike, Tohru Hira, Shigenobu Koseki, Tomoaki Nakatani, and Yasuyuki Hashidoko eds.), pp. 87-88, Shoukadoh Book Sellers (ISBN 978-4-87974-685-6 C3061), 2015.
 20. Kagami H, Kurata M, Matsuhira H, Taguchi K, Mikami T, Tamagake H, Kubo T, Chapter 27 Sugar Beet (*Beta vulgaris* L.), *Agrobacterium Protocols: Volume 1* (Kan Wang ed.), *Methods in Molecular Biology*, vol. 1223, DOI 10.1007/978-1-4939-1695-5_27, Springer Science+Business Media, New York, 2015.
 21. Honma Y, Taguchi K, Hiyama H, Yui-Kurino R, Mikami T, Kubo T, Molecular mapping of *restorer-of-fertility 2* gene identified from a sugar beet (*Beta vulgaris* L. ssp. *vulgaris*) homozygous for the non-restoring *restorer-of-fertility 1* allele, *Theoretical and Applied Genetics*, 127: 2567-2574, 2014.
 22. Taguchi K, Hiyama H, Yui-Kurino R, Muramatsu A, Mikami T, Kubo T, Hybrid breeding skewed the allelic frequencies of molecular variants derived from the restorer of fertility 1 locus for cytoplasmic male sterility in sugar beet (*Beta vulgaris* L.), *Crop Science*, 54, 1407-1412, 2014.

23. Kuwahara K, Suzuki R, Ito Y, Mikami T, Onodera Y, An analysis of genetic differentiation and geographical variation of spinach germplasm using SSR markers *Plant Genetic Resources*, 12, 185-190, 2014.
24. Yamamoto K, Oda Y, Haseda A, Fujito S, Mikami T, Onodera Y, Molecular evidence that the genes for dioecism and monoecism in *Spinacia oleracea* L. are located at different loci in a chromosomal region *Heredity*, 112: 317-324, 2014.
25. Moritani M, Taguchi K, Kitazaki K, Matsuhira H, Katsuyama T, Mikami T, Kubo T, Identification of the predominant nonrestoring allele for Owen-type cytoplasmic male sterility in sugar beet (*Beta vulgaris* L.): development of molecular markers for the maintainer genotype, *Molecular Breeding*, 32: 91-100, 2013.
26. Matsunaga M, Takahashi Y, Yui-Kurino R, Mikami T, Kubo T, Evolutionary aspects of a unique internal mitochondrial targeting signal in nuclear-migrated *rps19* of sugar beet (*Beta vulgaris*), *Gene*, 517: 19-26, 2013.
27. Matsuhira H, Kagami H, Kurata M, Kitazaki K, Matsunaga M, Hamaguchi Y, Hagihara E, Ueda M, Harada M, Muramatsu A, Yui-Kurino R, Taguchi K, Tamagake H, Mikami T, Kubo T, Unusual and typical features of a novel restorer-of-fertility gene of sugar beet (*Beta vulgaris* L.), *Genetics*, 192: 1347-1358, 2012.
28. Yoshida Y, Matsunaga M, Cheng D, Xu D, Honma Y, Mikami T, Kubo T, Mitochondrial minisatellite polymorphisms in fodder and sugar beets reveal genetic bottlenecks associated with domestication and the probable source of the Owen cytoplasm, *Biologia Plantarum*, 56: 369-372, 2012.
29. Kagami H, Nagano H, Takahashi Y, Mikami T, Kubo T, Is RNA editing implicated in group II intron survival in the angiosperm mitochondrial genome? *Genome*, 55: 75-79, 2012.
30. Kubo T, Horizontal gene transfer to the plant mitochondrial genome, *Agricultural Sciences for Human Sustainability* (Graduate School of Agriculture, Hokkaido University Editorial Committee), pp.96-97, Kaiseisha Press (ISBN978-4-86099-283-5), 2012.
31. Kitazaki K, Kubo T, Kagami H, Matsumoto T, Fujita A, Matsuhira H, Matsunaga M, Mikami T, A horizontally transferred tRNA^{Cys} gene in the sugar beet mitochondrial genome: evidence that the gene is present in diverse angiosperms and its transcript is aminoacylated, *The Plant Journal*, 68: 262-272, 2011.
32. Kubo T, Kitazaki K, Matsunaga M, Kagami, H, Mikami T, Male sterility-inducing mitochondrial genomes: how do they differ?, *Critical Reviews in Plant Sciences*, 30: 378-400, 2011.
33. Mikami T, Yamamoto MP, Matsuhira H, Kitazaki K, Kubo T, Molecular basis of cytoplasmic male sterility in beets: an overview, *Plant Genetic Resources*, 9: 284-287, 2011.
34. Honma Y, Yoshida Y, Terachi T, Toriyama K, Mikami T, Kubo T, Polymorphic minisatellites in the mitochondrial DNAs of *Oryza* and *Brassica*, *Current Genetics*, 57: 261-270, 2011.

35. Cheng D, Yoshida Y, Kitazaki K, Negoro S, Takahashi H, Xu D, Mikami T, Kubo T, Mitochondrial genome diversity in *Beta vulgaris* L. ssp. *vulgaris* (Leaf and Garden Beet Groups) and its implications concerning the dissemination of the crop, ***Genetic Resources and Crop Evolution***, 58: 553-560, 2011.
36. Taguchi K, Kubo T, Takahashi H, Abe H, Identification and precise mapping of resistant QTLs of Cercospora leaf spot resistance in sugar beet (*Beta vulgaris* L.), ***G3:Genes / Genomes / Genetics***, 1: 283-291, 2011.
37. Matsunaga M, Nagano H, Mikami T, Kubo T, Large 3' UTR of sugar beet *rps3* is truncated in cytoplasmic male-sterile mitochondria, ***Plant Cell Reports***, 30: 231-238, 2011.
38. Onodera Y, Yonaha I, Masumo. H, Tanaka A, Niikura S, Yamazaki S, Mikami T, Mapping of the genes for dioecism and monoecism in *Spinacia oleracea* L.: evidence that both genes are closely linked, ***Plant Cell Reports***, 30: 965-971, 2011.
39. Kitazaki K, Kubo T, Cost of having the largest mitochondrial genome: evolutionary mechanism of plant mitochondrial genome, ***Journal of Botany***, vol. 2010, Article ID 620137, 2010.
40. Kurihara-Yonemoto S, Kubo T, Increased accumulation of intron-containing transcripts in rice mitochondria caused by low temperature: is cold-sensitive RNA editing implicated?, ***Current Genetics***, 56: 529-541, 2010.
41. Taguchi K, Okazaki K, Takahashi H, Kubo T, Mikami T, Molecular mapping of resistant gene for Aphanomyces-root rot (black root) in sugar beet (*Beta vulgaris* L.) , ***Euphytica***, 173: 409-418, 2010.
42. Kawanishi Y, Shinada H, Matsunaga M, Masaki Y, Mikami T, Kubo T, A new source of cytoplasmic male sterility found in wild beet and its relationship to other CMS types, ***Genome***, 53: 251-256, 2010.
43. Cheng D, Kitazaki K, Xu D, Mikami T, Kubo T, The distribution of normal and male-sterile cytoplasms in Chinese sugar-beet germplasm, ***Euphytica***, 165: 345-351, 2009.
44. Kitazaki K, Nomoto Y, Aoshima A, Mikami T, Kubo T, A mitochondrial gene involved in cytochrome c maturation (*ccmC*) is expressed as a precursor with a long NH₂-terminal extension in sugar beet, ***Journal of Plant Physiology***, 166: 775-780, 2009.
45. Taguchi K, Ogata N, Kubo T, Kawasaki S, Mikami T, Quantitative trait locus responsible for resistance to Aphanomyces root rot (black root) caused by *Aphanomyces cochlioides* Drechs. in sugar beet, ***Theoretical and Applied Genetics***, 118: 227-234, 2009.

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