Daisuke Miki

List of Publications by Year
in descending order

36 papers	3,226 citations	201674 27 h-index	345221 36 g-index
37 all docs	37 docs citations	37 times ranked	3991 citing authors

#	Article	IF	Citations
1	Simple RNAi Vectors for Stable and Transient Suppression of Gene Function in Rice. Plant and Cell Physiology, 2004, 45, 490-495.	3.1	502
2	RNA Silencing of Single and Multiple Members in a Gene Family of Rice. Plant Physiology, 2005, 138, 1903-1913.	4.8	270
3	An RNA polymerase II- and AGO4-associated protein acts in RNA-directed DNA methylation. Nature, 2010, 465, 106-109.	27.8	228
4	A Histone Acetyltransferase Regulates Active DNA Demethylation in Arabidopsis. Science, 2012, 336, 1445-1448.	12.6	224
5	CRISPR/Cas9-mediated gene targeting in Arabidopsis using sequential transformation. Nature Communications, 2018, 9, 1967.	12.8	178
6	ROS3 is an RNA-binding protein required for DNA demethylation in Arabidopsis. Nature, 2008, 455, 1259-1262.	27.8	150
7	The genome of broomcorn millet. Nature Communications, 2019, 10, 436.	12.8	130
8	Insights into the Localization and Function of the Membrane Trafficking Regulator GNOM ARF-GEF at the Golgi Apparatus inArabidopsisÂ. Plant Cell, 2014, 26, 3062-3076.	6.6	121
9	Analysis of the Rac/Rop Small GTPase Family in Rice: Expression, Subcellular Localization and Role in Disease Resistance. Plant and Cell Physiology, 2010, 51, 585-595.	3.1	113
10	The Methyl-CpG-Binding Protein MBD7 Facilitates Active DNA Demethylation to Limit DNA Hyper-Methylation and Transcriptional Gene Silencing. Molecular Cell, 2015, 57, 971-983.	9.7	112
11	Arabidopsis EDM2 promotes IBM1 distal polyadenylation and regulates genome DNA methylation patterns. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 527-532.	7.1	102
12	Overproduction of stomatal lineage cells in Arabidopsis mutants defective in active DNA demethylation. Nature Communications, 2014, 5, 4062.	12.8	90
13	A DNA 3â€² Phosphatase Functions in Active DNA Demethylation in Arabidopsis. Molecular Cell, 2012, 45, 357-370.	9.7	81
14	A pair of transposon-derived proteins function in a histone acetyltransferase complex for active DNA demethylation. Cell Research, 2017, 27, 226-240.	12.0	80
15	Sulfamethazine Suppresses Epigenetic Silencing in Arabidopsis by Impairing Folate Synthesis. Plant Cell, 2012, 24, 1230-1241.	6.6	77
16	RNAi-mediated Silencing of OsGEN-L (OsGEN-like), a New Member of the RAD2/XPG Nuclease Family, Causes Male Sterility by Defect of Microspore Development in Rice. Plant and Cell Physiology, 2005, 46, 699-715.	3.1	75
17	Histone acetylation recruits the SWR1 complex to regulate active DNA demethylation in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16641-16650.	7.1	73
18	DNA Replication Factor C1 Mediates Genomic Stability and Transcriptional Gene Silencing inArabidopsisÂ Â. Plant Cell, 2010, 22, 2336-2352.	6.6	72

#	Article	IF	Citations
19	Small interfering RNA (siRNA) targeting of endogenous promoters induces DNA methylation, but not necessarily gene silencing, in rice. Plant Journal, 2008, 53, 65-77.	5.7	65
20	A Pre-mRNA-Splicing Factor Is Required for RNA-Directed DNA Methylation in Arabidopsis. PLoS Genetics, 2013, 9, e1003779.	3.5	58
21	DNA demethylases are required for myo-inositol-mediated mutualism between plants and beneficial rhizobacteria. Nature Plants, 2020, 6, 983-995.	9.3	48
22	DNA demethylase ROS1 negatively regulates the imprinting of DOGL4 and seed dormancy in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9962-E9970.	7.1	46
23	Regulation of Active DNA Demethylation by an Î±-Crystallin Domain Protein in Arabidopsis. Molecular Cell, 2014, 55, 361-371.	9.7	44
24	The developmental regulator PKL is required to maintain correct DNA methylation patterns at RNA-directed DNA methylation loci. Genome Biology, 2017, 18, 103.	8.8	44
25	Knock-down of OsDCL2 in Rice Negatively Affects Maintenance of the Endogenous dsRNA Virus, Oryza sativa Endornavirus. Plant and Cell Physiology, 2010, 51, 58-67.	3.1	35
26	Efficient Generation of diRNAs Requires Components in the Posttranscriptional Gene Silencing Pathway. Scientific Reports, 2017, 7, 301.	3.3	34
27	De novo DNA methylation induced by siRNA targeted to endogenous transcribed sequences is geneâ€specific and OsMet1â€independent in rice. Plant Journal, 2008, 56, 539-549.	5.7	29
28	Roles of DEMETER in regulating DNA methylation in vegetative tissues and pathogen resistance. Journal of Integrative Plant Biology, 2021, 63, 691-706.	8.5	26
29	Gene targeting in Arabidopsis via an allâ€inâ€one strategy that uses a translational enhancer to aid Cas9 expression. Plant Biotechnology Journal, 2020, 18, 892-894.	8.3	23
30	Four putative SWI2/SNF2 chromatin remodelers have dual roles in regulating DNA methylation in Arabidopsis. Cell Discovery, 2018, 4, 55.	6.7	22
31	SAC3B, a central component of the mRNA export complex TREX-2, is required for prevention of epigenetic gene silencing inArabidopsis. Nucleic Acids Research, 2017, 45, 181-197.	14.5	21
32	Genomeâ€wide distribution and functions of the AAE complex in epigenetic regulation in Arabidopsis. Journal of Integrative Plant Biology, 2021, 63, 707-722.	8.5	18
33	CRISPR/Cas9-Based Genome Editing Toolbox for Arabidopsis thaliana. Methods in Molecular Biology, 2021, 2200, 121-146.	0.9	14
34	Involvement of Multiple Gene-Silencing Pathways in a Paramutation-like Phenomenon in Arabidopsis. Cell Reports, 2015, 11, 1160-1167.	6.4	13
35	Gene Targeting Facilitated by Engineered Sequence-Specific Nucleases: Potential Applications for Crop Improvement. Plant and Cell Physiology, 2021, 62, 752-765.	3.1	6
36	Three highly conserved hydrophobic residues in the predicted Î±2â€helix of rice NLR protein Pit contribute to its localization and immune induction. Plant, Cell and Environment, 2022, , .	5.7	2