

Kentaro K Shimizu

List of Publications by Year in descending order

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95
papers

5,227
citations

101384

36
h-index

106150

65
g-index

113
all docs

113
docs citations

113
times ranked

6882
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiple wheat genomes reveal global variation in modern breeding. <i>Nature</i> , 2020, 588, 277-283.	13.7	513
2	The wheat powdery mildew genome shows the unique evolution of an obligate biotroph. <i>Nature Genetics</i> , 2013, 45, 1092-1096.	9.4	236
3	Estimating genomic diversity and population differentiation – an empirical comparison of microsatellite and SNP variation in <i>Arabidopsis halleri</i> . <i>BMC Genomics</i> , 2017, 18, 69.	1.2	216
4	Sequencing of the genus <i>Arabidopsis</i> identifies a complex history of nonbifurcating speciation and abundant trans-specific polymorphism. <i>Nature Genetics</i> , 2016, 48, 1077-1082.	9.4	198
5	Hybridization of powdery mildew strains gives rise to pathogens on novel agricultural crop species. <i>Nature Genetics</i> , 2016, 48, 201-205.	9.4	192
6	Robust control of the seasonal expression of the <i>Arabidopsis FLC</i> gene in a fluctuating environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11632-11637.	3.3	162
7	Diversity at the <i>Mla</i> Powdery Mildew Resistance Locus from Cultivated Barley Reveals Sites of Positive Selection. <i>Molecular Plant-Microbe Interactions</i> , 2010, 23, 497-509.	1.4	160
8	Evolution of Selfing: Recurrent Patterns in Molecular Adaptation. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2015, 46, 593-622.	3.8	132
9	Evolution of self-compatibility in <i>Arabidopsis</i> by a mutation in the male specificity gene. <i>Nature</i> , 2010, 464, 1342-1346.	13.7	131
10	Molecular basis of flowering under natural long-day conditions in <i>Arabidopsis</i> . <i>Nature Plants</i> , 2018, 4, 824-835.	4.7	115
11	Population genomic footprints of selection and associations with climate in natural populations of <i>Arabidopsis halleri</i> from the Alps. <i>Molecular Ecology</i> , 2013, 22, 5594-5607.	2.0	113
12	Evolution and Control of Imprinted FWA Genes in the Genus <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2008, 4, e1000048.	1.5	111
13	Gene duplication and genetic exchange drive the evolution of S-RNase-based self-incompatibility in <i>Petunia</i> . <i>Nature Plants</i> , 2015, 1, 14005.	4.7	111
14	Using knockout mutants to reveal the growth costs of defensive traits. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2598-2603.	1.2	110
15	The allopolyploid <i>Arabidopsis kamchatica</i> originated from multiple individuals of <i>Arabidopsis lyrata</i> and <i>Arabidopsis halleri</i> . <i>Molecular Ecology</i> , 2009, 18, 4024-4048.	2.0	109
16	Genome-wide quantification of homeolog expression ratio revealed nonstochastic gene regulation in synthetic allopolyploid <i>Arabidopsis</i> . <i>Nucleic Acids Research</i> , 2014, 42, e46-e46.	6.5	108
17	Genome assembly and annotation of <i>Arabidopsis halleri</i> , a model for heavy metal hyperaccumulation and evolutionary ecology. <i>Molecular Ecology Resources</i> , 2017, 17, 1025-1036.	2.2	98
18	Darwinian Selection on a Selfing Locus. <i>Science</i> , 2004, 306, 2081-2084.	6.0	91

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19	Independent origins of self-incompatibility in <i>Arabidopsis thaliana</i> . <i>Molecular Ecology</i> , 2008, 17, 704-714.	2.0	90
20	The <i>Cardamine hirsuta</i> genome offers insight into the evolution of morphological diversity. <i>Nature Plants</i> , 2016, 2, 16167.	4.7	90
21	The More the Merrier: Recent Hybridization and Polyploidy in <i>Cardamine</i> . <i>Plant Cell</i> , 2013, 25, 3280-3295.	3.1	88
22	Nitrogen as a key regulator of flowering in <i>Fagus crenata</i> : understanding the physiological mechanism of masting by gene expression analysis. <i>Ecology Letters</i> , 2014, 17, 1299-1309.	3.0	86
23	Reference-guided de novo assembly approach improves genome reconstruction for related species. <i>BMC Bioinformatics</i> , 2017, 18, 474.	1.2	85
24	Multiple hybrid de novo genome assembly of finger millet, an orphan allotetraploid crop. <i>DNA Research</i> , 2018, 25, 39-47.	1.5	85
25	Allopolyploid origin of <i>Cardamine asarifolia</i> (Brassicaceae): Incongruence between plastid and nuclear ribosomal DNA sequences solved by a single-copy nuclear gene. <i>Molecular Phylogenetics and Evolution</i> , 2006, 39, 759-786.	1.2	78
26	Plant adaptive radiation mediated by polyploid plasticity in transcriptomes. <i>Molecular Ecology</i> , 2017, 26, 193-207.	2.0	76
27	Recent Loss of Self-Incompatibility by Degradation of the Male Component in Allotetraploid <i>Arabidopsis kamchatica</i> . <i>PLoS Genetics</i> , 2012, 8, e1002838.	1.5	72
28	Plant sexual reproduction during climate change: gene function in natura studied by ecological and evolutionary systems biology. <i>Annals of Botany</i> , 2011, 108, 777-787.	1.4	71
29	Mass flowering of the tropical tree <i>Schorea beccariana</i> was preceded by expression changes in flowering and drought-responsive genes. <i>Molecular Ecology</i> , 2013, 22, 4767-4782.	2.0	71
30	MAA3 (MAGATAMA3) Helicase Gene is Required for Female Gametophyte Development and Pollen Tube Guidance in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2008, 49, 1478-1483.	1.5	61
31	The Current Genomic Landscape of Western South America: Andes, Amazonia, and Pacific Coast. <i>Molecular Biology and Evolution</i> , 2019, 36, 2698-2713.	3.5	59
32	Evolutionary and Ecological Genomics of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2005, 138, 578-584.	2.3	58
33	Patterns of polymorphism and selection in the subgenomes of the allopolyploid <i>Arabidopsis kamchatica</i> . <i>Nature Communications</i> , 2018, 9, 3909.	5.8	52
34	The predominantly selfing plant <i>Arabidopsis thaliana</i> experienced a recent reduction in transposable element abundance compared to its outcrossing relative <i>Arabidopsis lyrata</i> . <i>Mobile DNA</i> , 2012, 3, 2.	1.3	50
35	Multiple hybridization events in <i>Cardamine</i> (Brassicaceae) during the last 150 years: revisiting a textbook example of neoallopolyploidy. <i>Annals of Botany</i> , 2014, 113, 817-830.	1.4	46
36	Local adaptation (mostly) remains local: reassessing environmental associations of climate-related candidate SNPs in <i>Arabidopsis halleri</i> . <i>Heredity</i> , 2017, 118, 193-201.	1.2	43

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37	Genomics meets remote sensing in global change studies: monitoring and predicting phenology, evolution and biodiversity. <i>Current Opinion in Environmental Sustainability</i> , 2017, 29, 177-186.	3.1	42
38	Genome structure analysis of molluscs revealed whole genome duplication and lineage specific repeat variation. <i>Gene</i> , 2011, 483, 63-71.	1.0	41
39	Selection Is No More Efficient in Haploid than in Diploid Life Stages of an Angiosperm and a Moss. <i>Molecular Biology and Evolution</i> , 2013, 30, 1929-1939.	3.5	41
40	Conserved but Attenuated Parental Gene Expression in Allopolyploids: Constitutive Zinc Hyperaccumulation in the Allotetraploid <i>Arabidopsis kamchatica</i> . <i>Molecular Biology and Evolution</i> , 2016, 33, 2781-2800.	3.5	40
41	Efficient Purging of Deleterious Mutations in Plants with Haploid Selfing. <i>Genome Biology and Evolution</i> , 2014, 6, 1238-1252.	1.1	38
42	Cell Type-Specific Transcriptome of Brassicaceae Stigmatic Papilla Cells From a Combination of Laser Microdissection and RNA Sequencing. <i>Plant and Cell Physiology</i> , 2013, 54, 1894-1906.	1.5	37
43	Evolution of the Selfing Syndrome in <i>Arabis alpina</i> (Brassicaceae). <i>PLoS ONE</i> , 2015, 10, e0126618.	1.1	37
44	A stigmatic gene confers interspecies incompatibility in the Brassicaceae. <i>Nature Plants</i> , 2019, 5, 731-741.	4.7	37
45	The Nagoya Protocol could backfire on the Global South. <i>Nature Ecology and Evolution</i> , 2018, 2, 917-919.	3.4	31
46	Coexistence of Trichome Variation in a Natural Plant Population: A Combined Study Using Ecological and Candidate Gene Approaches. <i>PLoS ONE</i> , 2011, 6, e22184.	1.1	30
47	In Situ Enzyme Activity in the Dissolved and Particulate Fraction of the Fluid from Four Pitcher Plant Species of the Genus <i>Nepenthes</i> . <i>PLoS ONE</i> , 2011, 6, e25144.	1.1	30
48	Homeolog expression quantification methods for allopolyploids. <i>Briefings in Bioinformatics</i> , 2020, 21, 395-407.	3.2	29
49	Plant trichomes and a single gene <i>GLABRA1</i> contribute to insect community composition on field-grown <i>Arabidopsis thaliana</i> . <i>BMC Plant Biology</i> , 2019, 19, 163.	1.6	28
50	Loss of the six3/6 controlling pathways might have resulted in pinhole-eye evolution in <i>Nautilus</i> . <i>Scientific Reports</i> , 2013, 3, 1432.	1.6	27
51	Bacterial diversity and composition in the fluid of pitcher plants of the genus <i>Nepenthes</i> . <i>Systematic and Applied Microbiology</i> , 2015, 38, 330-339.	1.2	27
52	Adaptive reduction of male gamete number in the selfing plant <i>Arabidopsis thaliana</i> . <i>Nature Communications</i> , 2020, 11, 2885.	5.8	27
53	Ultralong Oxford Nanopore Reads Enable the Development of a Reference-Grade Perennial Ryegrass Genome Assembly. <i>Genome Biology and Evolution</i> , 2021, 13, .	1.1	26
54	Duplicated pollen-pistil recognition loci control intraspecific unilateral incompatibility in <i>Brassica rapa</i> . <i>Nature Plants</i> , 2017, 3, 17096.	4.7	25

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55	Effects of pollen availability and the mutation bias on the fixation of mutations disabling the male specificity of self-incompatibility. <i>Journal of Evolutionary Biology</i> , 2013, 26, 2221-2232.	0.8	24
56	Multiple factors contribute to outcrossing in a tropical emergent <i>Dipterocarpus tempehes</i> , including a new pollen-tube guidance mechanism for self-incompatibility. <i>American Journal of Botany</i> , 2002, 89, 60-66.	0.8	23
57	The population genomic signature of environmental association and gene flow in an ecologically divergent tree species <i>Metrosideros polymorpha</i> (Myrtaceae). <i>Molecular Ecology</i> , 2017, 26, 1515-1532.	2.0	22
58	Exploring correlations in genetic and cultural variation across language families in northeast Asia. <i>Science Advances</i> , 2021, 7, .	4.7	22
59	Female sterility associated with increased clonal propagation suggests a unique combination of androdioecy and asexual reproduction in populations of <i>Cardamine amara</i> (Brassicaceae). <i>Annals of Botany</i> , 2015, 115, 763-776.	1.4	19
60	Genetic diversity of two tropical tree species of the Dipterocarpaceae following logging and restoration in Borneo: high genetic diversity in plots with high species diversity. <i>Plant Ecology and Diversity</i> , 2016, 9, 459-469.	1.0	18
61	Genome sequencing of <i>Metrosideros polymorpha</i> (Myrtaceae), a dominant species in various habitats in the Hawaiian Islands with remarkable phenotypic variations. <i>Journal of Plant Research</i> , 2016, 129, 727-736.	1.2	18
62	Fine-scale empirical data on niche divergence and homeolog expression patterns in an allopolyploid and its diploid progenitor species. <i>New Phytologist</i> , 2021, 229, 3587-3601.	3.5	18
63	Genomic signatures of convergent adaptation to Alpine environments in three Brassicaceae species. <i>Molecular Ecology</i> , 2020, 29, 4350-4365.	2.0	17
64	Transcriptional Characteristics and Differences in <i>Arabidopsis</i> Stigmatic Papilla Cells Pre- and Post-Pollination. <i>Plant and Cell Physiology</i> , 2015, 56, 663-673.	1.5	16
65	De Novo Genome Assembly of the Japanese Wheat Cultivar Norin 61 Highlights Functional Variation in Flowering Time and Fusarium-Resistant Genes in East Asian Genotypes. <i>Plant and Cell Physiology</i> , 2021, 62, 8-27.	1.5	16
66	Agrobacterium-mediated floral dip transformation of the model polyploid species <i>Arabidopsis kamchatica</i> . <i>Journal of Plant Research</i> , 2018, 131, 349-358.	1.2	14
67	Using a two-stage convolutional neural network to rapidly identify tiny herbivorous beetles in the field. <i>Ecological Informatics</i> , 2021, 66, 101466.	2.3	14
68	Current status of the multinational <i>Arabidopsis</i> community. <i>Plant Direct</i> , 2020, 4, e00248.	0.8	13
69	The genome of <i>Shorea leprosula</i> (Dipterocarpaceae) highlights the ecological relevance of drought in aseasonal tropical rainforests. <i>Communications Biology</i> , 2021, 4, 1166.	2.0	13
70	Positional bias in variant calls against draft reference assemblies. <i>BMC Genomics</i> , 2017, 18, 263.	1.2	11
71	A Recently Formed Triploid <i>Cardamine insueta</i> Inherits Leaf Vivipary and Submergence Tolerance Traits of Parents. <i>Frontiers in Genetics</i> , 2020, 11, 567262.	1.1	11
72	Challenges in studies on flowering time: interfaces between phenological research and the molecular network of flowering genes. <i>Ecological Research</i> , 2013, 28, 161-172.	0.7	10

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73	Transcriptional Variation in Glucosinolate Biosynthetic Genes and Inducible Responses to Aphid Herbivory on Field-Grown <i>Arabidopsis thaliana</i> . <i>Frontiers in Genetics</i> , 2019, 10, 787.	1.1	10
74	Experimental and Field Data Support Range Expansion in an Allopolyploid <i>Arabidopsis</i> Owing to Parental Legacy of Heavy Metal Hyperaccumulation. <i>Frontiers in Genetics</i> , 2020, 11, 565854.	1.1	10
75	Fermentation Ability of Gut Microbiota of Wild Japanese Macaques in the Highland and Lowland Yakushima: In Vitro Fermentation Assay and Genetic Analyses. <i>Microbial Ecology</i> , 2020, 80, 459-474.	1.4	10
76	Neighbor GWAS: incorporating neighbor genotypic identity into genome-wide association studies of field herbivory. <i>Heredity</i> , 2021, 126, 597-614.	1.2	10
77	Genet assignment and population structure analysis in a clonal forest-floor herb, <i>Cardamine leucantha</i> , using RAD-seq. <i>AoB PLANTS</i> , 2020, 12, plz080.	1.2	9
78	Metal accumulation and its effect on leaf herbivory in an allopolyploid species <i>Arabidopsis kamchatica</i> inherited from a diploid hyperaccumulator <i>A. halleri</i> . <i>Plant Species Biology</i> , 2021, 36, 208-217.	0.6	9
79	Multiple Wheat Genomes Reveal Novel Gli-2 Sublocus Location and Variation of Celiac Disease Epitopes in Duplicated α -Gliadin Genes. <i>Frontiers in Plant Science</i> , 2021, 12, 715985.	1.7	7
80	PRIMA: a rapid and cost-effective genotyping method to detect single-nucleotide differences using probe-induced heteroduplexes. <i>Scientific Reports</i> , 2021, 11, 20741.	1.6	7
81	Integrative research efforts at the boundary of biodiversity and global change research. <i>Current Opinion in Environmental Sustainability</i> , 2017, 29, 215-222.	3.1	6
82	Double-Locking Mechanism of Self-Compatibility in <i>Arabidopsis thaliana</i> : The Synergistic Effect of Transcriptional Depression and Disruption of Coding Region in the Male Specificity Gene. <i>Frontiers in Plant Science</i> , 2020, 11, 576140.	1.7	6
83	Artificial selection reveals the role of transcriptional constraints in the maintenance of life history variation. <i>Evolution Letters</i> , 2020, 4, 200-211.	1.6	6
84	Efficient Detection of Novel Nuclear Markers for Brassicaceae by Transcriptome Sequencing. <i>PLoS ONE</i> , 2015, 10, e0128181.	1.1	5
85	Pollen Number and Ribosome Gene Expression Altered in a Genome-Editing Mutant of <i>REDUCED POLLEN NUMBER1</i> Gene. <i>Frontiers in Plant Science</i> , 2021, 12, 768584.	1.7	5
86	Updated Genome Assembly and Annotation for <i>Metrosideros polymorpha</i> , an Emerging Model Tree Species of Ecological Divergence. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 3513-3520.	0.8	4
87	ARPEGGIO: Automated Reproducible Polyploid EpiGenetic Guidance workflow. <i>BMC Genomics</i> , 2021, 22, 547.	1.2	4
88	KOMPEITO, an Atypical <i>Arabidopsis</i> Rhomboid-Related Gene, Is Required for Callose Accumulation and Pollen Wall Development. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5959.	1.8	4
89	An Affordable Image-Analysis Platform to Accelerate Stomatal Phenotyping During Microscopic Observation. <i>Frontiers in Plant Science</i> , 2021, 12, 715309.	1.7	3
90	Pollen Grain Counting Using a Cell Counter. <i>Methods in Molecular Biology</i> , 2020, 2160, 1-11.	0.4	3

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91	Demography and selection analysis of the incipient adaptive radiation of a Hawaiian woody species. PLoS Genetics, 2022, 18, e1009987.	1.5	3
92	Whole-Genome Sequencing of a 900-Year-Old Human Skeleton Supports Two Past Migration Events from the Russian Far East to Northern Japan. Genome Biology and Evolution, 2021, 13, .	1.1	2
93	Cost-Effective Discovery of Nucleotide Polymorphisms in Populations of an Allopolyploid Species Using Pool-Seq. American Journal of Molecular Biology, 2017, 07, 1031-1046.	0.1	2
94	A Natural Low Phytic Acid Finger Millet Accession Significantly Improves Iron Bioavailability in Indian Women. Frontiers in Nutrition, 2021, 8, 791392.	1.6	2
95	Potential Application of Pollen Genotyping for Evolutionary Genetic and Genomic Studies: Linkage/Recombination Analysis and Haplotype Sequencing. Structure and Function of Mountain Ecosystems in Japan, 2011, , 111-123.	0.1	0