Takashi Kuromori

List of Publications by Citations

60 papers	5,263 citations	37 h-index	62 g-index
62 ext. papers	6,252 ext. citations	6.8 avg, IF	5.36 L-index

#	Paper	IF	Citations
60	Molecular basis of the core regulatory network in ABA responses: sensing, signaling and transport. *Plant and Cell Physiology*, **2010**, 51, 1821-39	4.9	612
59	ABC transporter AtABCG25 is involved in abscisic acid transport and responses. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 2361-6	11.5	397
58	Genetic definition and sequence analysis of Arabidopsis centromeres. *Science*, **1999**, 286, 2468-74	33.3	381
57	AtIPT3 is a key determinant of nitrate-dependent cytokinin biosynthesis in Arabidopsis. *Plant and Cell Physiology*, **2004**, 45, 1053-62	4.9	295
56	ABA-hypersensitive germination3 encodes a protein phosphatase 2C (AtPP2CA) that strongly regulates abscisic acid signaling during germination among Arabidopsis protein phosphatase 2Cs. *Plant Physiology*, **2006**, 140, 115-26	6.6	284
55	A heterocomplex of iron superoxide dismutases defends chloroplast nucleoids against oxidative stress and is essential for chloroplast development in Arabidopsis. *Plant Cell*, **2008**, 20, 3148-62	11.6	201
54	ABA Transport and Plant Water Stress Responses. *Trends in Plant Science*, **2018**, 23, 513-522	13.1	197
53	MS/MS spectral tag-based annotation of non-targeted profile of plant secondary metabolites. *Plant Journal*, **2009**, 57, 555-77	6.9	191
52	A collection of 11 800 single-copy Ds transposon insertion lines in Arabidopsis. *Plant Journal*, **2004**, 37, 897-905	6.9	183
51	Arabidopsis SPO11-2 functions with SPO11-1 in meiotic recombination. *Plant Journal*, **2006**, 48, 206-16	6.9	155
50	Acetate-mediated novel survival strategy against drought in plants. *Nature Plants*, **2017**, 3, 17097	11.5	129
49	Arabidopsis mutants of AtABCG22, an ABC transporter gene, increase water transpiration and drought susceptibility. *Plant Journal*, **2011**, 67, 885-94	6.9	127
48	Two glycosyltransferases involved in anthocyanin modification delineated by transcriptome independent component analysis in Arabidopsis thaliana. *Plant Journal*, **2012**, 69, 154-67	6.9	124
47	Analysis of ABA hypersensitive germination2 revealed the pivotal functions of PARN in stress response in Arabidopsis. *Plant Journal*, **2005**, 44, 972-84	6.9	116
46	Multiple loss-of-function of Arabidopsis gibberellin receptor AtGID1s completely shuts down a gibberellin signal. *Plant Journal*, **2007**, 50, 958-66	6.9	115
45	AtPHT4;4 is a chloroplast-localized ascorbate transporter in Arabidopsis. *Nature Communications*, **2015**, 6, 5928	17.4	109
44	Global patterns of human DNA sequence variation in a 10-kb region on chromosome 1. *Molecular Biology and Evolution*, **2001**, 18, 214-22	8.3	108

43	A trial of phenome analysis using 4000 Ds-insertional mutants in gene-coding regions of Arabidopsis. *Plant Journal*, **2006**, 47, 640-51	6.9	96
42	Intertissue signal transfer of abscisic acid from vascular cells to guard cells. *Plant Physiology*, **2014**, 164, 1587-92	6.6	95
41	A new resource of locally transposed Dissociation elements for screening gene-knockout lines in silico on the Arabidopsis genome. *Plant Physiology*, **2002**, 129, 1695-9	6.6	91
40	Phenome analysis in plant species using loss-of-function and gain-of-function mutants. *Plant and Cell Physiology*, **2009**, 50, 1215-31	4.9	79
39	Cytological and biochemical analysis of COF1, an Arabidopsis mutant of an ABC transporter gene. *Plant and Cell Physiology*, **2007**, 48, 1524-33	4.9	77
38	The glycerophosphoryl diester phosphodiesterase-like proteins SHV3 and its homologs play important roles in cell wall organization. *Plant and Cell Physiology*, **2008**, 49, 1522-35	4.9	68
37	Drought Stress Responses and Resistance in Plants: From Cellular Responses to Long-Distance Intercellular Communication. *Frontiers in Plant Science*, **2020**, 11, 556972	6.2	67
36	RARGE: a large-scale database of RIKEN Arabidopsis resources ranging from transcriptome to phenome. *Nucleic Acids Research*, **2005**, 33, D647-50	20.1	66
35	Expression and interaction analysis of Arabidopsis Skp1-related genes. *Plant and Cell Physiology*, **2004**, 45, 83-91	4.9	64
34	An Arabidopsis chloroplast-targeted Hsp101 homologue, APG6, has an essential role in chloroplast development as well as heat-stress response. *Plant Journal*, **2006**, 48, 249-60	6.9	62
33	Evolutionary persistence of functional compensation by duplicate genes in Arabidopsis. *Genome Biology and Evolution*, **2009**, 1, 409-14	3.9	56
32	Top-down phenomics of Arabidopsis thaliana: metabolic profiling by one- and two-dimensional nuclear magnetic resonance spectroscopy and transcriptome analysis of albino mutants. *Journal of Biological Chemistry*, **2007**, 282, 18532-18541	5.4	55
31	Quantitative trait loci analysis of nitrate storage in Arabidopsis leading to an investigation of the contribution of the anion channel gene, AtCLC-c, to variation in nitrate levels. *Journal of Experimental Botany*, **2004**, 55, 2005-14	7	55
30	The Chloroplast Function Database: a large-scale collection of Arabidopsis Ds/Spm- or T-DNA-tagged homozygous lines for nuclear-encoded chloroplast proteins, and their systematic phenotype analysis. *Plant Journal*, **2010**, 61, 529-42	6.9	54
29	A resource of 5,814 dissociation transposon-tagged and sequence-indexed lines of Arabidopsis transposed from start loci on chromosome 5. *Plant and Cell Physiology*, **2005**, 46, 1149-53	4.9	52
28	Functional compensation of primary and secondary metabolites by duplicate genes in Arabidopsis thaliana. *Molecular Biology and Evolution*, **2011**, 28, 377-82	8.3	51
27	Regulatory Gene Networks in Drought Stress Responses and Resistance in Plants. *Advances in Experimental Medicine and Biology*, **2018**, 1081, 189-214	3.6	45
26	Loss of Necrotic Spotted Lesions 1 associates with cell death and defense responses in Arabidopsis thaliana. *Plant Molecular Biology*, **2006**, 62, 29-42	4.6	43

25	Cloning of cDNAs from Arabidopsis thaliana that encode putative protein phosphatase 2C and a human Dr1-like protein by transformation of a fission yeast mutant. *Nucleic Acids Research*, **1994**, 22, 5296-301	20.1	43
24	ABA transport factors found in Arabidopsis ABC transporters. *Plant Signaling and Behavior*, **2010**, 5, 1124-6	2.6	39
23	Overexpression of AtABCG25 enhances the abscisic acid signal in guard cells and improves plant water use efficiency. *Plant Science*, **2016**, 251, 75-81	5.3	33
22	Increased expression and protein divergence in duplicate genes is associated with morphological diversification. *PLoS Genetics*, **2009**, 5, e1000781	6	31
21	Evidence for potassium transport activity of Arabidopsis KEA1-KEA6. *Scientific Reports*, **2019**, 9, 10040	4.9	27
20	Arabidopsis mutant of AtABCG26, an ABC transporter gene, is defective in pollen maturation. *Journal of Plant Physiology*, **2011**, 168, 2001-5	3.6	26
19	Members of the Arabidopsis 14-3-3 gene family trans-complement two types of defects in fission yeast. *Plant Science*, **2000**, 158, 155-161	5.3	24
18	Functional cloning of a cDNA encoding Mei2-like protein from Arabidopsis thaliana using a fission yeast pheromone receptor deficient mutant. *FEBS Letters*, **1997**, 413, 16-20	3.8	22
17	SD3, an Arabidopsis thaliana homolog of TIM21, affects intracellular ATP levels and seedling development. *Molecular Plant*, **2012**, 5, 461-71	14.4	20
16	RARGE II: an integrated phenotype database of Arabidopsis mutant traits using a controlled vocabulary. *Plant and Cell Physiology*, **2014**, 55, e4	4.9	19
15	PosMed-plus: an intelligent search engine that inferentially integrates cross-species information resources for molecular breeding of plants. *Plant and Cell Physiology*, **2009**, 50, 1249-59	4.9	14
14	Toward genome-wide metabolotyping and elucidation of metabolic system: metabolic profiling of large-scale bioresources. *Journal of Plant Research*, **2010**, 123, 291-8	2.6	13
13	SnRK1 Kinase and the NAC Transcription Factor SOG1 Are Components of a Novel Signaling Pathway Mediating the Low Energy Response Triggered by ATP Depletion. *Frontiers in Plant Science* , **2019**, 10, 503	6.2	10
12	Drought Stress Signaling Network **2014**, 383-409		9
11	Functional relationship of AtABCG21 and AtABCG22 in stomatal regulation. *Scientific Reports*, **2017**, 7, 12501	4.9	8
10	Homologous chromosome pairing is completed in crossover defective atzip4 mutant. *Biochemical and Biophysical Research Communications*, **2008**, 370, 98-103	3.4	6
9	The Regulatory Networks of Plant Responses to Abscisic Acid. *Advances in Botanical Research*, **2011**, 201-248	2.4	5
8	Inter-tissue and inter-organ signaling in drought stress response and phenotyping of drought tolerance. *Plant Journal*, **2021**,	6.9	5

List of Publications

7	Brachypodium BdABCG25 is a homolog of Arabidopsis AtABCG25 involved in the transport of abscisic acid. *FEBS Letters*, **2021**, 595, 954-959	3.8	4
6	Stress Signaling Networks: Drought Stress **2013**, 1-23		2
5	Arabidopsis cDNA clones isolated by transcomplementation of the fission yeast cAMP phosphodiesterase mutant. *DNA Research*, **2001**, 8, 189-92	4.5	0
4	Identification of a cDNA from Arabidopsis thaliana Encoding a Member of the Conserved SUG1 Protein Family by Complementation Screening in Fission Yeast Meiotic Mutants.. *Plant Biotechnology*, **2001**, 18, 169-174	1.3	
3	Phenome analysis of root development in Arabidopsis. *Plant Biotechnology*, **2010**, 27, 345-347	1.3	
2	ABA Transport by ABCG Transporter Proteins. *Signaling and Communication in Plants*, **2014**, 39-47	1	
1	Ds Transposon Mutant Lines for Saturation Mutagenesis of theArabidopsis genome17-30		