

# Takashi Kuromori

## List of Publications by Year in descending order

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60  
papers

6,887  
citations

81900

39  
h-index

149698

56  
g-index

62  
all docs

62  
docs citations

62  
times ranked

8626  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Basis of the Core Regulatory Network in ABA Responses: Sensing, Signaling and Transport. <i>Plant and Cell Physiology</i> , 2010, 51, 1821-1839.	3.1	800
2	ABC transporter AtABCG25 is involved in abscisic acid transport and responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2361-2366.	7.1	494
3	Genetic Definition and Sequence Analysis of <i>Arabidopsis</i> Centromeres. <i>Science</i> , 1999, 286, 2468-2474.	12.6	417
4	ABA-Hypersensitive Germination3 Encodes a Protein Phosphatase 2C (AtPP2CA) That Strongly Regulates Abscisic Acid Signaling during Germination among <i>Arabidopsis</i> Protein Phosphatase 2Cs. <i>Plant Physiology</i> , 2006, 140, 115-126.	4.8	344
5	AtIPT3 is a Key Determinant of Nitrate-Dependent Cytokinin Biosynthesis in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2004, 45, 1053-1062.	3.1	343
6	ABA Transport and Plant Water Stress Responses. <i>Trends in Plant Science</i> , 2018, 23, 513-522.	8.8	343
7	A Heterocomplex of Iron Superoxide Dismutases Defends Chloroplast Nucleoids against Oxidative Stress and Is Essential for Chloroplast Development in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2008, 20, 3148-3162.	6.6	270
8	Acetate-mediated novel survival strategy against drought in plants. <i>Nature Plants</i> , 2017, 3, 17097.	9.3	232
9	MS/MS spectral tag-based annotation of non-targeted profile of plant secondary metabolites. <i>Plant Journal</i> , 2009, 57, 555-577.	5.7	208
10	<i>Arabidopsis</i> SPO11-2 functions with SPO11-1 in meiotic recombination. <i>Plant Journal</i> , 2006, 48, 206-216.	5.7	206
11	A collection of 11800 single-copy DNA transposon insertion lines in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2004, 37, 897-905.	5.7	203
12	Drought Stress Responses and Resistance in Plants: From Cellular Responses to Long-Distance Intercellular Communication. <i>Frontiers in Plant Science</i> , 2020, 11, 556972.	3.6	199
13	<i>Arabidopsis</i> mutants of <i>AtABCG22</i> , an ABC transporter gene, increase water transpiration and drought susceptibility. <i>Plant Journal</i> , 2011, 67, 885-894.	5.7	164
14	Two glycosyltransferases involved in anthocyanin modification delineated by transcriptome independent component analysis in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2012, 69, 154-167.	5.7	164
15	Global Patterns of Human DNA Sequence Variation in a 10-kb Region on Chromosome 1. <i>Molecular Biology and Evolution</i> , 2001, 18, 214-222.	8.9	157
16	AtPHT4;4 is a chloroplast-localized ascorbate transporter in <i>Arabidopsis</i> . <i>Nature Communications</i> , 2015, 6, 5928.	12.8	145
17	Multiple loss-of-function of <i>Arabidopsis</i> gibberellin receptor AtGID1s completely shuts down a gibberellin signal. <i>Plant Journal</i> , 2007, 50, 958-966.	5.7	136
18	Analysis of ABA Hypersensitive Germination2 revealed the pivotal functions of PARN in stress response in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2005, 44, 972-984.	5.7	131

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19	Intertissue Signal Transfer of Abscisic Acid from Vascular Cells to Guard Cells. <i>Plant Physiology</i> , 2014, 164, 1587-1592.	4.8	123
20	A trial of phenome analysis using 4000Ds-insertional mutants in gene-coding regions of Arabidopsis. <i>Plant Journal</i> , 2006, 47, 640-651.	5.7	110
21	A New Resource of Locally Transposed Dissociation Elements for Screening Gene-Knockout Lines in Silico on the Arabidopsis Genome. <i>Plant Physiology</i> , 2002, 129, 1695-1699.	4.8	103
22	The Glycerophosphoryl Diester Phosphodiesterase-Like Proteins SHV3 and its Homologs Play Important Roles in Cell Wall Organization. <i>Plant and Cell Physiology</i> , 2008, 49, 1522-1535.	3.1	103
23	Regulatory Gene Networks in Drought Stress Responses and Resistance in Plants. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1081, 189-214.	1.6	91
24	Cytological and Biochemical Analysis of COF1, an Arabidopsis Mutant of an ABC Transporter Gene. <i>Plant and Cell Physiology</i> , 2007, 48, 1524-1533.	3.1	84
25	Phenome Analysis in Plant Species Using Loss-of-Function and Gain-of-Function Mutants. <i>Plant and Cell Physiology</i> , 2009, 50, 1215-1231.	3.1	83
26	An Arabidopsis chloroplast-targeted Hsp101 homologue, APG6, has an essential role in chloroplast development as well as heat-stress response. <i>Plant Journal</i> , 2006, 48, 249-260.	5.7	81
27	Evolutionary Persistence of Functional Compensation by Duplicate Genes in Arabidopsis. <i>Genome Biology and Evolution</i> , 2009, 1, 409-414.	2.5	81
28	Functional Compensation of Primary and Secondary Metabolites by Duplicate Genes in Arabidopsis thaliana. <i>Molecular Biology and Evolution</i> , 2011, 28, 377-382.	8.9	76
29	RARGE: a large-scale database of RIKEN Arabidopsis resources ranging from transcriptome to phenome. <i>Nucleic Acids Research</i> , 2004, 33, D647-D650.	14.5	73
30	Loss of NECROTIC SPOTTED LESIONS 1 associates with cell death and defense responses in Arabidopsis thaliana. <i>Plant Molecular Biology</i> , 2006, 62, 29-42.	3.9	68
31	Expression and Interaction Analysis of Arabidopsis Skp1-Related Genes. <i>Plant and Cell Physiology</i> , 2004, 45, 83-91.	3.1	67
32	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. <i>Journal of Experimental Botany</i> , 2004, 55, 2005-2014.	4.8	65
33	The Chloroplast Function Database: a large-scale collection of Arabidopsis <i>Ds/Spm</i> - or <i>T-DNA</i> -tagged homozygous lines for nuclear-encoded chloroplast proteins, and their systematic phenotype analysis. <i>Plant Journal</i> , 2010, 61, 529-542.	5.7	60
34	A Resource of 5,814 Dissociation Transposon-tagged and Sequence-indexed Lines of Arabidopsis Transposed from Start Loci on Chromosome 5. <i>Plant and Cell Physiology</i> , 2005, 46, 1149-1153.	3.1	58
35	Top-down Phenomics of Arabidopsis thaliana. <i>Journal of Biological Chemistry</i> , 2007, 282, 18532-18541.	3.4	58
36	Increased Expression and Protein Divergence in Duplicate Genes Is Associated with Morphological Diversification. <i>PLoS Genetics</i> , 2009, 5, e1000781.	3.5	50

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37	Inter-tissue and inter-organ signaling in drought stress response and phenotyping of drought tolerance. <i>Plant Journal</i> , 2022, 109, 342-358.	5.7	50
38	Cloning of cDNAs from <i>Arabidopsis thaliana</i> that encode putative protein phosphatase 2C and a human DM-like protein by transformation of a fission yeast mutant. <i>Nucleic Acids Research</i> , 1994, 22, 5296-5301.	14.5	47
39	ABA transport factors found in <i>Arabidopsis</i> ABC transporters. <i>Plant Signaling and Behavior</i> , 2010, 5, 1124-1126.	2.4	47
40	Overexpression of AtABCG25 enhances the abscisic acid signal in guard cells and improves plant water use efficiency. <i>Plant Science</i> , 2016, 251, 75-81.	3.6	45
41	Evidence for potassium transport activity of <i>Arabidopsis</i> KEA1-KEA6. <i>Scientific Reports</i> , 2019, 9, 10040.	3.3	42
42	<i>Arabidopsis</i> mutant of AtABCG26, an ABC transporter gene, is defective in pollen maturation. <i>Journal of Plant Physiology</i> , 2011, 168, 2001-2005.	3.5	35
43	RARGE II: An Integrated Phenotype Database of <i>Arabidopsis</i> Mutant Traits Using a Controlled Vocabulary. <i>Plant and Cell Physiology</i> , 2014, 55, e4-e4.	3.1	32
44	SD3, an <i>Arabidopsis thaliana</i> Homolog of TIM21, Affects Intracellular ATP Levels and Seedling Development. <i>Molecular Plant</i> , 2012, 5, 461-471.	8.3	31
45	Members of the <i>Arabidopsis</i> 14-3-3 gene family trans-complement two types of defects in fission yeast. <i>Plant Science</i> , 2000, 158, 155-161.	3.6	25
46	Drought Stress Signaling Network. , 2014, , 383-409.		23
47	Functional cloning of a cDNA encoding Mei2-like protein from <i>Arabidopsis thaliana</i> using a fission yeast pheromone receptor deficient mutant. <i>FEBS Letters</i> , 1997, 413, 16-20.	2.8	22
48	SnRK1 Kinase and the NAC Transcription Factor SOG1 Are Components of a Novel Signaling Pathway Mediating the Low Energy Response Triggered by ATP Depletion. <i>Frontiers in Plant Science</i> , 2019, 10, 503.	3.6	18
49	PosMed-plus: An Intelligent Search Engine that Inferentially Integrates Cross-Species Information Resources for Molecular Breeding of Plants. <i>Plant and Cell Physiology</i> , 2009, 50, 1249-1259.	3.1	17
50	Toward genome-wide metabolotyping and elucidation of metabolic system: metabolic profiling of large-scale bioresources. <i>Journal of Plant Research</i> , 2010, 123, 291-298.	2.4	13
51	Functional relationship of AtABCG21 and AtABCG22 in stomatal regulation. <i>Scientific Reports</i> , 2017, 7, 12501.	3.3	12
52	Homologous chromosome pairing is completed in crossover defective atzip4 mutant. <i>Biochemical and Biophysical Research Communications</i> , 2008, 370, 98-103.	2.1	9
53	<i>Brachypodium</i> BdABCG25 is a homolog of <i>Arabidopsis</i> AtABCG25 involved in the transport of abscisic acid. <i>FEBS Letters</i> , 2021, 595, 954-959.	2.8	8
54	The Regulatory Networks of Plant Responses to Abscisic Acid. <i>Advances in Botanical Research</i> , 2011, , 201-248.	1.1	6

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55	Stress Signaling Networks: Drought Stress. , 2013, , 1-23.		3
56	Arabidopsis cDNA Clones Isolated by Transcomplementation of the Fission Yeast cAMP Phosphodiesterase Mutant. DNA Research, 2001, 8, 189-192.	3.4	1
57	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.	1.0	0
58	Phenome analysis of root development in Arabidopsis. Plant Biotechnology, 2010, 27, 345-347.	1.0	0
59	ABA Transport by ABCG Transporter Proteins. Signaling and Communication in Plants, 2014, , 39-47.	0.7	0
60	Ds Transposon Mutant Lines for Saturation Mutagenesis of the Arabidopsis genome. , 0, , 17-30.		0