

Taku Takahashi

List of Publications by Year in descending order

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73
papers

4,869
citations

101543

36
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95266

68
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74
all docs

74
docs citations

74
times ranked

4660
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyamines: ubiquitous polycations with unique roles in growth and stress responses. <i>Annals of Botany</i> , 2010, 105, 1-6.	2.9	425
2	Regulation of shoot epidermal cell differentiation by a pair of homeodomain proteins in <i>Arabidopsis</i> . <i>Development (Cambridge)</i> , 2003, 130, 635-643.	2.5	313
3	A protective role for the polyamine spermine against drought stress in <i>Arabidopsis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2007, 352, 486-490.	2.1	285
4	Characterization of the Class IV Homeodomain-Leucine Zipper Gene Family in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2006, 141, 1363-1375.	4.8	244
5	Spermidine Synthase Genes Are Essential for Survival of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2004, 135, 1565-1573.	4.8	209
6	The polyamine spermine protects against high salt stress in <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2006, 580, 6783-6788.	2.8	200
7	Identification of a cis-regulatory element for L1 layer-specific gene expression, which is targeted by an L1-specific homeodomain protein. <i>Plant Journal</i> , 2001, 26, 487-494.	5.7	179
8	Thermospermine is Required for Stem Elongation in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2008, 49, 1342-1349.	3.1	157
9	The dwarf phenotype of the <i>Arabidopsis acl5</i> mutant is suppressed by a mutation in an upstream ORF of a bHLH gene. <i>Development (Cambridge)</i> , 2006, 133, 3575-3585.	2.5	138
10	Spermine is not essential for survival of <i>Arabidopsis</i> . <i>FEBS Letters</i> , 2004, 556, 148-152.	2.8	127
11	Thermospermine is Not a Minor Polyamine in the Plant Kingdom. <i>Plant and Cell Physiology</i> , 2012, 53, 606-616.	3.1	124
12	Analysis of Tissue-Specific Expression of <i>Arabidopsis thaliana</i> HSP90-Family Gene HSP81. <i>Plant and Cell Physiology</i> , 1994, 35, 1207-1219.	3.1	116
13	The <i>Arabidopsis</i> ERECTA gene is expressed in the shoot apical meristem and organ primordia. <i>Plant Journal</i> , 1998, 15, 301-310.	5.7	113
14	Characterization of two genes encoding small heat-shock proteins in <i>Arabidopsis thaliana</i> . <i>Molecular Genetics and Genomics</i> , 1989, 219, 365-372.	2.4	111
15	Key Proliferative Activity in the Junction between the Leaf Blade and Leaf Petiole of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2011, 157, 1151-1162.	4.8	108
16	ACL5: an <i>Arabidopsis</i> gene required for internodal elongation after flowering. <i>Plant Journal</i> , 1997, 12, 863-874.	5.7	107
17	Characterization of the spermidine synthase-related gene family in <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2002, 527, 176-180.	2.8	104
18	Salicylic Acid Induces the Expression of a Number of Receptor-Like Kinase Genes in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2000, 41, 1038-1044.	3.1	92

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19	AtVAM3 is Required for Normal Specification of Idioblasts, Myrosin Cells. <i>Plant and Cell Physiology</i> , 2006, 47, 164-175.	3.1	91
20	A semi-dominant mutation in the ribosomal protein L10 gene suppresses the dwarf phenotype of the <i>acl5</i> mutant in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2008, 56, 881-890.	5.7	86
21	AtXTH27 plays an essential role in cell wall modification during the development of tracheary elements. <i>Plant Journal</i> , 2005, 42, 525-534.	5.7	80
22	Isolation and Analysis of the Expression of Two Genes for the 81-Kilodalton Heat-Shock Proteins from <i>Arabidopsis</i> . <i>Plant Physiology</i> , 1992, 99, 383-390.	4.8	79
23	The <i>Arabidopsis</i> HSP18.2 promoter/GUS gene fusion in transgenic <i>Arabidopsis</i> plants: a powerful tool for the isolation of regulatory mutants of the heat-shock response. <i>Plant Journal</i> , 1992, 2, 751-761.	5.7	78
24	Cloning and Characterization of an L1 Layer-Specific Gene in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 1999, 40, 571-580.	3.1	68
25	ATML1 and PDF2 Play a Redundant and Essential Role in <i>Arabidopsis</i> Embryo Development. <i>Plant and Cell Physiology</i> , 2015, 56, 1183-1192.	3.1	67
26	Infrared laser-mediated local gene induction in medaka, zebrafish and <i>Arabidopsis thaliana</i> . <i>Development Growth and Differentiation</i> , 2009, 51, 769-775.	1.5	64
27	Expression of Endoxyloglucan Transferase Genes in acaulis Mutants of <i>Arabidopsis</i> . <i>Plant Physiology</i> , 1999, 121, 715-722.	4.8	62
28	Heat-shock tagging: a simple method for expression and isolation of plant genome DNA flanked by T-DNA insertions. <i>Plant Journal</i> , 2000, 22, 79-86.	5.7	59
29	Gene silencing using a heat-inducible RNAi system in <i>Arabidopsis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2004, 321, 364-369.	2.1	52
30	Disruption of a DNA Topoisomerase I Gene Affects Morphogenesis in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2002, 14, 2085-2093.	6.6	51
31	Mutations in epidermis-specific HD genes affect floral organ identity in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2013, 75, 430-440.	5.7	50
32	<i>Arabidopsis</i> Qa-SNARE SYP2 proteins localized to different subcellular regions function redundantly in vacuolar protein sorting and plant development. <i>Plant Journal</i> , 2010, 64, 924-935.	5.7	46
33	Identification by PCR of receptor-like protein kinases from <i>Arabidopsis</i> flowers. <i>Plant Molecular Biology</i> , 1998, 37, 587-596.	3.9	42
34	Identification of an Allele of VAM3/SYP22 that Confers a Semi-dwarf Phenotype in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2005, 46, 1358-1365.	3.1	41
35	NIMA-related kinases 6, 4, and 5 interact with each other to regulate microtubule organization during epidermal cell expansion in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2011, 67, 993-1005.	5.7	41
36	A Chemical Biology Approach Reveals an Opposite Action between Thermospermine and Auxin in Xylem Development in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2012, 53, 635-645.	3.1	41

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37	Chemical control of xylem differentiation by thermospermine, xylemin and auxin. <i>Scientific Reports</i> , 2016, 6, 21487.	3.3	40
38	Microtubule Response to Tensile Stress Is Curbed by NEK6 to Buffer Growth Variation in the <i>Arabidopsis Hypocotyl</i> . <i>Current Biology</i> , 2020, 30, 1491-1503.e2.	3.9	39
39	The <i>SAC51</i> Family Plays a Central Role in Thermospermine Responses in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2016, 57, 1583-1592.	3.1	36
40	Mutations in Ribosomal Proteins, RPL4 and RACK1, Suppress the Phenotype of a Thermospermine-Deficient Mutant of <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2015, 10, e0117309.	2.5	36
41	Norspermine substitutes for thermospermine in the control of stem elongation in <i>Arabidopsis thaliana</i> . <i>FEBS Letters</i> , 2010, 584, 3042-3046.	2.8	34
42	Editorial: Molecular Mechanisms Underlying Polyamine Functions in Plants. <i>Frontiers in Plant Science</i> , 2017, 8, 14.	3.6	33
43	Thermospermine modulates expression of auxin-related genes in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2014, 5, 94.	3.6	32
44	An evolutionarily conserved NIMA-related kinase directs rhizoid tip growth in the basal land plant <i>Marchantia polymorpha</i> . <i>Development (Cambridge)</i> , 2018, 145, .	2.5	30
45	Polyamine Resistance Is Increased by Mutations in a Nitrate Transporter Gene NRT1.3 (<i>AtNPF6.4</i>) in <i>Arabidopsis thaliana</i> . <i>Frontiers in Plant Science</i> , 2016, 7, 834.	3.6	26
46	Plant Polyamines. <i>Plants</i> , 2020, 9, 511.	3.5	25
47	Ceramides mediate positional signals in <i>Arabidopsis thaliana</i> protoderm differentiation. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	21
48	Development of inflorescences in <i>Arabidopsis thaliana</i> . <i>Journal of Plant Research</i> , 1998, 111, 283-288.	2.4	19
49	Floral organ-specific and constitutive expression of an <i>Arabidopsis thaliana</i> heat-shock HSP18.2:: GUS fusion gene is retained even after homeotic conversion of flowers by mutation. <i>Molecular Genetics and Genomics</i> , 1993, 237-237, 26-32.	2.4	18
50	Abscisic acid induces ectopic outgrowth in epidermal cells through cortical microtubule reorganization in <i>Arabidopsis thaliana</i> . <i>Scientific Reports</i> , 2015, 5, 11364.	3.3	17
51	The root growth reduction in response to mechanical stress involves ethylene-mediated microtubule reorganization and transmembrane receptor-mediated signal transduction in <i>Arabidopsis</i> . <i>Plant Cell Reports</i> , 2021, 40, 575-582.	5.6	17
52	NIMA-related kinases regulate directional cell growth and organ development through microtubule function in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2012, 7, 1552-1555.	2.4	16
53	Salt hypersensitivity is associated with excessive xylem development in a thermospermine-deficient mutant of <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2019, 100, 374-383.	5.7	16
54	Formation of Corymb-like Inflorescences Due to Delay in Bolting and Flower Development in the <i>corymbosa2</i> Mutant of <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2002, 43, 298-306.	3.1	15

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55	Distinct Functions of Ethylene and ACC in the Basal Land Plant <i>Marchantia polymorpha</i> . <i>Plant and Cell Physiology</i> , 2021, 62, 858-871.	3.1	14
56	Thermospermine suppresses auxin-inducible xylem differentiation in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2012, 7, 937-939.	2.4	13
57	Thermospermine enhances translation of <i>SAC51</i> and <i>SACL1</i> in <i>Arabidopsis</i> . <i>Plant Signaling and Behavior</i> , 2017, 12, e1276685.	2.4	13
58	Directional cell expansion requires NIMA-related kinase 6 (NEK6)-mediated cortical microtubule destabilization. <i>Scientific Reports</i> , 2017, 7, 7826.	3.3	13
59	Structure, function, and evolution of plant NIMA-related kinases: implication for phosphorylation-dependent microtubule regulation. <i>Journal of Plant Research</i> , 2015, 128, 875-891.	2.4	12
60	Allele-specific effects of <i>PDF2</i> on floral morphology in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2013, 8, e27417.	2.4	11
61	Effect of Thermospermine on the Growth and Expression of Polyamine-Related Genes in Rice Seedlings. <i>Plants</i> , 2019, 8, 269.	3.5	11
62	Complexity and Conservation of Thermospermine-Responsive uORFs of <i>SAC51</i> Family Genes in Angiosperms. <i>Frontiers in Plant Science</i> , 2019, 10, 564.	3.6	11
63	Ethylene signaling plays a pivotal role in mechanical-stress-induced root-growth cessation in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2019, 14, 1669417.	2.4	9
64	Responses of Polyamine-Metabolic Genes to Polyamines and Plant Stress Hormones in <i>Arabidopsis</i> Seedlings. <i>Cells</i> , 2021, 10, 3283.	4.1	9
65	Omeprazole Enhances Mechanical Stress-Induced Root Growth Reduction in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2018, 59, 1581-1591.	3.1	7
66	Thermospermine: An Evolutionarily Ancient but Functionally New Compound in Plants. <i>Methods in Molecular Biology</i> , 2018, 1694, 51-59.	0.9	5
67	Regulation and Diversity of Polyamine Biosynthesis in Plants. , 2015, , 27-44.		5
68	Determination of polyamines in <i>Arabidopsis thaliana</i> by capillary electrophoresis using salicylaldehyde-5-sulfonate as a derivatizing reagent. <i>Analytical Methods</i> , 2013, 5, 2854.	2.7	4
69	Easy-to-Use InDel Markers for Genetic Mapping between Col-0 and Ler-0 Accessions of <i>Arabidopsis thaliana</i> . <i>Plants</i> , 2020, 9, 779.	3.5	3
70	The plant exon finder: a tool for precise detection of exons using a T-DNA-based tagging approach. <i>Gene</i> , 2004, 338, 267-273.	2.2	2
71	Detection of Thermospermine and Spermine by HPLC in Plants. <i>Methods in Molecular Biology</i> , 2018, 1694, 69-73.	0.9	2
72	Chemical Synthesis and Biological Effect on Xylem Formation of Xylemin and Its Analogues. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 2745-2753.	2.4	1

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73	Metabolism and Function of Plant Polyamines: One of the Most Versatile Compounds in Plant Cells. Kagaku To Seibutsu, 2021, 59, 290-297.	0.0	0