Tomonobu Kusano

List of Publications by Year
in descending order

89	4,645	76326	102487
papers	citations	40 h-index	66 g-index

90	90	90	4362
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of thermospermine on expression profiling of different gene using massive analysis of cDNA ends (MACE) and vascular maintenance in Arabidopsis. Physiology and Molecular Biology of Plants, 2021, 27, 577-586.	3.1	3
2	Expression profile of seven polyamine oxidase genes in rice (Oryza sativa) in response to abiotic stresses, phytohormones and polyamines. Physiology and Molecular Biology of Plants, 2021, 27, 1353-1359.	3.1	15
3	A Polyamine Oxidase from Selaginella lepidophylla (SelPAO5) can Replace AtPAO5 in Arabidopsis through Converting Thermospermine to Norspermidine instead to Spermidine. Plants, 2019, 8, 99.	3.5	7
4	Scots pine aminopropyltransferases shed new light on evolution of the polyamine biosynthesis pathway in seed plants. Annals of Botany, 2018, 121, 1243-1256.	2.9	54
5	Abiotic Stress Phenotyping of Polyamine Mutants. Methods in Molecular Biology, 2018, 1694, 389-403.	0.9	3
6	Molecules for Sensing Polyamines and Transducing Their Action in Plants. Methods in Molecular Biology, 2018, 1694, 25-35.	0.9	7
7	Galactinol is involved in sequence-conserved upstream open reading frame-mediated repression of Arabidopsis HsfB1 translation. Environmental and Experimental Botany, 2018, 156, 120-129.	4.2	5
8	Identification of seven polyamine oxidase genes in tomato (Solanum lycopersicum L.) and their expression profiles under physiological and various stress conditions. Journal of Plant Physiology, 2018, 228, 1-11.	3.5	42
9	Identification of the actual coding region for polyamine oxidase 6 from rice (OsPAO6) and its partial characterization. Plant Signaling and Behavior, 2017, 12, e1359456.	2.4	12
10	Reducing Cytoplasmic Polyamine Oxidase Activity in Arabidopsis Increases Salt and Drought Tolerance by Reducing Reactive Oxygen Species Production and Increasing Defense Gene Expression. Frontiers in Plant Science, 2016, 7, 214.	3.6	46
11	Peptidoglycan-associated outer membrane protein Mep45 of rumen anaerobe Selenomonas ruminantium forms a non-specific diffusion pore via its C-terminal transmembrane domain. Bioscience, Biotechnology and Biochemistry, 2016, 80, 1954-1959.	1.3	9
12	Quantitative measurement of the outer membrane permeability in Escherichia coli lpp and tolâ€“pal mutants defines the significance of Tolâ€“Pal function for maintaining drug resistance. Journal of Antibiotics, 2016, 69, 863-870.	2.0	20
13	A novel strategy to produce sweeter tomato fruits with high sugar contents by fruitâ€specific expression of a single <scp>bZIP</scp> transcription factor gene. Plant Biotechnology Journal, 2016, 14, 1116-1126.	8.3	64
14	Outer Membrane Proteins Derived from Non-cyanobacterial Lineage Cover the Peptidoglycan of Cyanophora paradoxa Cyanelles and Serve as a Cyanelle Diffusion Channel. Journal of Biological Chemistry, 2016, 291, 20198-20209.	3.4	8
15	Spermine modulates the expression of two probable polyamine transporter genes and determines growth responses to cadaverine in Arabidopsis. Plant Cell Reports, 2016, 35, 1247-1257.	5.6	10
16	The polyamine spermine induces the unfolded protein response via the MAPK cascade in Arabidopsis. Frontiers in Plant Science, 2015, 6, 687.	3.6	16
17	Polyamines in Plant Stress Response. , 2015, , 155-168.		23
18	The polyamine oxidase from lycophyteSelaginella lepidophylla (SelPAO5), unlike that of angiosperms, backâ€converts thermospermine to norspermidine. FEBS Letters, 2015, 589, 3071-3078.	2.8	18

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19	Polyamine Catabolism in Plants. , 2015, , 77-88.		21
20	Polyamine Homeostasis in Plants: The Role(s) of Evolutionarily Conserved Upstream ORFs. , 2015, , 111-118.		0
21	POLYAMINE OXIDASE 1 from rice (Oryza sativa) is a functional ortholog ofArabidopsisPOLYAMINE OXIDASE 5. Plant Signaling and Behavior, 2014, 9, e29773.	2.4	20
22	Polyamine Oxidase 7 is a Terminal Catabolism-Type Enzyme in Oryza sativa and is Specifically Expressed in Anthers. Plant and Cell Physiology, 2014, 55, 1110-1122.	3.1	61
23	Overexpression of rice OsREX1-S, encoding a putative component of the core general transcription and DNA repair factor IIH, renders plant cells tolerant to cadmium- and UV-induced damage by enhancing DNA excision repair. Planta, 2014, 239, 1101-1111.	3.2	9
24	Oryza sativa polyamine oxidase 1 back-converts tetraamines, spermine and thermospermine, to spermidine. Plant Cell Reports, 2014, 33, 143-151.	5.6	54
25	Polyamine Oxidase5 Regulates Arabidopsis Growth through Thermospermine Oxidase Activity Â Â. Plant Physiology, 2014, 165, 1575-1590.	4.8	89
26	Arabidopsis mutant plants with diverse defects in polyamine metabolism show unequal sensitivity to exogenous cadaverine probably based on their spermine content. Physiology and Molecular Biology of Plants, 2014, 20, 151-159.	3.1	24
27	Longer uncommon polyamines have a stronger defense gene-induction activity and a higher suppressing activity of Cucumber mosaic virus multiplication compared to that of spermine in Arabidopsis thaliana. Plant Cell Reports, 2013, 32, 1477-1488.	5.6	17
28	The polyamine spermine protects Arabidopsis from heat stress-induced damage by increasing expression of heat shock-related genes. Transgenic Research, 2013, 22, 595-605.	2.4	127
29	Rice DEP1, encoding a highly cysteine-rich G protein Î³ subunit, confers cadmium tolerance on yeast cells and plants. Journal of Experimental Botany, 2013, 64, 4517-4527.	4.8	64
30	The Arabidopsis voltage-dependent anion channel 2 is required for plant growth. Plant Signaling and Behavior, 2012, 7, 31-33.	2.4	13
31	RCY1-Mediated Resistance to Cucumber mosaic virus Is Regulated by LRR Domain-Mediated Interaction with CMV(Y) Following Degradation of RCY1. Molecular Plant-Microbe Interactions, 2012, 25, 1171-1185.	2.6	29
32	Deregulation of Sucrose-Controlled Translation of a bZIP-Type Transcription Factor Results in Sucrose Accumulation in Leaves. PLoS ONE, 2012, 7, e33111.	2.5	48
33	Identification and properties of a small protein that interacts with a tobacco bZIP-type transcription factor TBZF. Plant Biotechnology, 2012, 29, 395-399.	1.0	8
34	Exogenous thermospermine has an activity to induce a subset of the defense genes and restrict cucumber mosaic virus multiplication in Arabidopsis thaliana. Plant Cell Reports, 2012, 31, 1227-1232.	5.6	35
35	An inhibitory effect of the sequenceâ€conserved upstream openâ€reading frame on the translation of the main openâ€reading frame of HsfB1 transcripts in Arabidopsis. Plant, Cell and Environment, 2012, 35, 2014-2030.	5.7	53
36	Constitutively and highly expressed Oryza sativa polyamine oxidases localize in peroxisomes and catalyze polyamine back conversion. Amino Acids, 2012, 42, 867-876.	2.7	104

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37	Molecular and genetic characterization of the gene family encoding the voltage-dependent anion channel in Arabidopsis. Journal of Experimental Botany, 2011, 62, 4773-4785.	4.8	84
38	Spatio-temporal expression analysis of Arabidopsis thaliana spermine synthase gene promoter. Plant Biotechnology, 2011, 28, 407-411.	1.0	7
39	Characterization of five polyamine oxidase isoforms in Arabidopsis thaliana. Plant Cell Reports, 2010, 29, 955-965.	5.6	98
40	Quantitative analysis of plant polyamines including thermospermine during growth and salinity stress. Plant Physiology and Biochemistry, 2010, 48, 527-533.	5.8	83
41	Novel Cysteine-Rich Peptides from Digitaria ciliaris and Oryza sativa Enhance Tolerance to Cadmium by Limiting its Cellular Accumulation. Plant and Cell Physiology, 2009, 50, 106-117.	3.1	84
42	A novel plant cysteine-rich peptide family conferring cadmium tolerance to yeast and plants. Plant Signaling and Behavior, 2009, 4, 419-421.	2.4	27
43	Unraveling the roles of sphingolipids in plant innate immunity. Plant Signaling and Behavior, 2009, 4, 536-538.	2.4	6
44	Spermine signaling in defense reaction against avirulent viral pathogen inArabidopsis thaliana. Plant Signaling and Behavior, 2009, 4, 316-318.	2.4	15
45	Plant voltage-dependent anion channels are involved in host defense against Pseudomonas cichorii and in Bax-induced cell death. Plant Cell Reports, 2009, 28, 41-51.	5.6	48
46	Voltage-dependent anion channels: their roles in plant defense and cell death. Plant Cell Reports, 2009, 28, 1301-1308.	5.6	64
47	Spermine signaling plays a significant role in the defense response of Arabidopsis thaliana to cucumber mosaic virus. Journal of Plant Physiology, 2009, 166, 626-643.	3.5	107
48	Serine Palmitoyltransferase, the First Step Enzyme in Sphingolipid Biosynthesis, Is Involved in Nonhost Resistance. Molecular Plant-Microbe Interactions, 2009, 22, 31-38.	2.6	37
49	NtbZIP60, an endoplasmic reticulum-localized transcription factor, plays a role in the defense response against bacterial pathogens in Nicotiana tabacum. Journal of Plant Research, 2008, 121, 603-611.	2.4	66
50	The Polyamine Spermine Rescues Arabidopsis from Salinity and Drought Stresses. Plant Signaling and Behavior, 2007, 2, 251-252.	2.4	52
51	A protective role for the polyamine spermine against drought stress in Arabidopsis. Biochemical and Biophysical Research Communications, 2007, 352, 486-490.	2.1	285
52	Identification of a novel Cys2/His2-type zinc-finger protein as a component of a spermine-signaling pathway in tobacco. Journal of Plant Physiology, 2007, 164, 785-793.	3.5	19
53	Advances in polyamine research in 2007. Journal of Plant Research, 2007, 120, 345-350.	2.4	247
54	The polyamine spermine protects against high salt stress inArabidopsis thaliana. FEBS Letters, 2006, 580, 6783-6788.	2.8	200

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55	Characterization of AtbZIP2, AtbZIP11 and AtbZIP53 from the group S basic region-leucine zipper family in Arabidopsis thaliana. Plant Biotechnology, 2006, 23, 249-258.	1.0	11
56	Single amino acid alterations in Arabidopsis thaliana RCY1 compromise resistance to Cucumber mosaic virus, but differentially suppress hypersensitive response-like cell death. Plant Molecular Biology, 2006, 62, 669-682.	3.9	40
57	Generation of Mercury-Hyperaccumulating Plants through Transgenic Expression of the Bacterial Mercury Membrane Transport Protein MerC. Transgenic Research, 2006, 15, 615-625.	2.4	66
58	Tobacco ZFT1, a Transcriptional Repressor with a Cys2/His2 Type Zinc Finger Motif that Functions in Spermine-Signaling Pathway. Plant Molecular Biology, 2005, 59, 435-448.	3.9	56
59	LIP19, a Basic Region Leucine Zipper Protein, is a Fos-like Molecular Switch in the Cold Signaling of Rice Plants. Plant and Cell Physiology, 2005, 46, 1623-1634.	3.1	115
60	Functional Dissection of a Mercuric Ion Transporter, MerC, fromAcidithiobacillus ferrooxidans. Bioscience, Biotechnology and Biochemistry, 2005, 69, 1394-1402.	1.3	34
61	Identification of the cis-acting elements in Arabidopsis thaliana NHL10 promoter responsible for leaf senescence, the hypersensitive response against Cucumber mosaic virus infection, and spermine treatment. Plant Science, 2005, 168, 415-422.	3.6	16
62	Antagonistic Interactions between the SA and JA Signaling Pathways in Arabidopsis Modulate Expression of Defense Genes and Gene-for-Gene Resistance to Cucumber Mosaic Virus. Plant and Cell Physiology, 2004, 45, 803-809.	3.1	163
63	A subset of hypersensitive response marker genes, including HSR203J, is the downstream target of a spermine signal transduction pathway in tobacco. Plant Journal, 2004, 40, 586-595.	5.7	129
64	Identification of Tobacco HIN1 and Two Closely Related Genes as Spermine-Responsive Genes and their Differential Expression During the Tobacco Mosaic Virus-Induced Hypersensitive Response and During Leaf- and Flower-Senescence. Plant Molecular Biology, 2004, 54, 613-622.	3.9	89
65	Up-regulation of Arabidopsis thaliana NHL10 in the hypersensitive response to Cucumber mosaic virus infection and in senescing leaves is controlled by signalling pathways that differ in salicylate involvement. Planta, 2004, 218, 740-750.	3.2	83
66	Spermine signalling in tobacco: activation of mitogen-activated protein kinases by spermine is mediated through mitochondrial dysfunction. Plant Journal, 2003, 36, 820-829.	5.7	132
67	Ntdin, a Tobacco Senescence-Associated Gene, is Involved in Molybdenum Cofactor Biosynthesis. Plant and Cell Physiology, 2003, 44, 1037-1044.	3.1	23
68	Promoter analysis of tbzF, a gene encoding a bZIP-type transcription factor, reveals distinct variation in cis-regions responsible for transcriptional activation between senescing leaves and flower buds in tobacco plants. Plant Science, 2002, 162, 973-980.	3.6	4
69	Specific Association of Transcripts of tbzF andtbz17, Tobacco Genes Encoding Basic Region Leucine Zipper-Type Transcriptional Activators, with Guard Cells of Senescing Leaves and/or Flowers. Plant Physiology, 2001, 127, 23-32.	4.8	45
70	7-Methylxanthine Methyltransferase of Coffee Plants. Journal of Biological Chemistry, 2001, 276, 8213-8218.	3.4	130
71	Differential Expression of Genes Encoding Enzymes Involved in Sulfur Assimilation Pathways in Response to Wounding and Jasmonate in Arabidopsis thaliana. Journal of Plant Physiology, 2000, 156, 272-276.	3.5	31
72	Specific Binding of a 14-3-3 Protein to Autophosphorylated WPK4, an SNF1-related Wheat Protein Kinase, and to WPK4-phosphorylated Nitrate Reductase. Journal of Biological Chemistry, 2000, 275, 31695-31700.	3.4	79

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73	Sucrose and Cytokinin Modulation of WPK4, a Gene Encoding a SNF1-Related Protein Kinase from Wheat. Plant Physiology, 1999, 121, 813-820.	4.8	53
74	A cold-inducible bZIP protein gene in radish root regulated by calcium- and cycloheximide-mediated signals. Plant Science, 1999, 142, 57-65.	3.6	16
75	Two maize genes encoding omega-3 fatty acid desaturase and their differential expression to temperature. Plant Molecular Biology, 1998, 36, 297-306.	3.9	132
76	Molecular cloning and partial characterization of a tobacco cDNA encoding a small bZIP protein. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1998, 1395, 171-175.	2.4	13
77	Mercuric Ion Uptake byEscherichia coliCells ProducingThiobacillus ferrooxidansMerC. Bioscience, Biotechnology and Biochemistry, 1996, 60, 1289-1292.	1.3	24
78	Cloning and Sequence Analysis ofczcGenes inAlcaligenessp. Strain CT14. Bioscience, Biotechnology and Biochemistry, 1996, 60, 699-704.	1.3	34
79	A maize DNA-binding factor with a bZIP motif is induced by low temperature. Molecular Genetics and Genomics, 1995, 248, 507-517.	2.4	99
80	Molecular cloning, characterization and expression of an elongation factor 1? gene in maize. Plant Molecular Biology, 1995, 29, 611-615.	3.9	65
81	Low-temperature-dependent expression of a rice gene encoding a protein with a leucine-zipper motif. Molecular Genetics and Genomics, 1993, 240, 1-8.	2.4	67
82	Nucleotide sequence of a ricerab16 homologue gene. Plant Molecular Biology, 1992, 18, 127-129.	3.9	15
83	Characterization and cloning of plasmids from the iron-oxidizing bacteriumThiobacillus ferrooxidans. Current Microbiology, 1991, 23, 321-326.	2.2	23
84	Molecular cloning and expression ofThiobacillus ferrooxidans chromosomal ribulose bisphosphate carboxylase genes inEscherichia coli. Current Microbiology, 1991, 22, 35-41.	2.2	18
85	Sequence analysis of rice dwarf phytoreovirus genome segments S4, S5, and S6: Comparison with the equivalent wound tumor virus segments. Virology, 1990, 179, 446-454.	2.4	32
86	Sequence analysis of the rice dwarf phytoreovirus segment s3 transcript encoding for the major structural core protein of 114 kDa. Virology, 1990, 179, 455-459.	2.4	32
87	An improved method for the construction of high efficiency cDNA library in plasmid or lambda vector. Nucleic Acids Research, 1990, 18, 1071-1071.	14.5	9
88	Thiobacillus ferrooxidans mer operon: sequence analysis of the promoter and adjacent genes. Gene, 1990, 96, 115-120.	2.2	33
89	Nucleotide sequence of the Thiobacillus ferrooxidans chromosomal gene encoding mercuric reductase. Gene, 1989, 84, 47-54.	2.2	65