Taishi Umezawa

List of Publications by Year
in descending order

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56	14,216	136950	168389
papers	citations	32	53
		h-index	g-index

61	61	61	13366
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genome sequence of the palaeopolyploid soybean. Nature, 2010, 463, 178-183.	27.8	3,854
2	Type 2C protein phosphatases directly regulate abscisic acid-activated protein kinases in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17588-17593.	7.1	980
3	Molecular Basis of the Core Regulatory Network in ABA Responses: Sensing, Signaling and Transport. Plant and Cell Physiology, 2010, 51, 1821-1839.	3.1	800
4	Regulatory metabolic networks in drought stress responses. Current Opinion in Plant Biology, 2007, 10, 296-302.	7.1	761
5	Abscisic acid-dependent multisite phosphorylation regulates the activity of a transcription activator AREB1. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1988-1993.	7.1	760
6	Engineering drought tolerance in plants: discovering and tailoring genes to unlock the future. Current Opinion in Biotechnology, 2006, 17, 113-122.	6.6	683
7	Three Arabidopsis SnRK2 Protein Kinases, SRK2D/SnRK2.2, SRK2E/SnRK2.6/OST1 and SRK2I/SnRK2.3, Involved in ABA Signaling are Essential for the Control of Seed Development and Dormancy. Plant and Cell Physiology, 2009, 50, 1345-1363.	3.1	636
8	Three SnRK2 Protein Kinases are the Main Positive Regulators of Abscisic Acid Signaling in Response to Water Stress in Arabidopsis. Plant and Cell Physiology, 2009, 50, 2123-2132.	3.1	599
9	The Regulatory Domain of SRK2E/OST1/SnRK2.6 Interacts with ABI1 and Integrates Abscisic Acid (ABA) and Osmotic Stress Signals Controlling Stomatal Closure in Arabidopsis. Journal of Biological Chemistry, 2006, 281, 5310-5318.	3.4	481
10	ArabidopsisDREB2A-Interacting Proteins Function as RING E3 Ligases and Negatively Regulate Plant Drought Stressâ€“Responsive Gene Expression. Plant Cell, 2008, 20, 1693-1707.	6.6	477
11	Antagonistic Interaction between Systemic Acquired Resistance and the Abscisic Acidâ€“Mediated Abiotic Stress Response in Arabidopsis Â. Plant Cell, 2008, 20, 1678-1692.	6.6	465
12	Monitoring the expression pattern of around 7,000 Arabidopsis genes under ABA treatments using a full-length cDNA microarray. Functional and Integrative Genomics, 2002, 2, 282-291.	3.5	394
13	Genetics and Phosphoproteomics Reveal a Protein Phosphorylation Network in the Abscisic Acid Signaling Pathway in Arabidopsis thaliana. Science Signaling, 2013, 6, rs8.	3.6	355
14	Osmotic Stress Responses and Plant Growth Controlled by Potassium Transporters inArabidopsisÂ Â. Plant Cell, 2013, 25, 609-624.	6.6	350
15	Threonine at position 306 of the KAT1 potassium channel is essential for channel activity and is a target site for ABA-activated SnRK2/OST1/SnRK2.6 protein kinase. Biochemical Journal, 2009, 424, 439-448.	3.7	316
16	SRK2C, a SNF1-related protein kinase 2, improves drought tolerance by controlling stress-responsive gene expression in Arabidopsis thaliana. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17306-17311.	7.1	312
17	CYP707A3, a major ABA 8â€²-hydroxylase involved in dehydration and rehydration response inArabidopsis thaliana. Plant Journal, 2006, 46, 171-182.	5.7	294
18	A Heterocomplex of Iron Superoxide Dismutases Defends Chloroplast Nucleoids against Oxidative Stress and Is Essential for Chloroplast Development inArabidopsis. Plant Cell, 2008, 20, 3148-3162.	6.6	270

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19	Crosstalk in the responses to abiotic and biotic stresses in Arabidopsis: Analysis of gene expression in cytochrome P450 gene superfamily by cDNA microarray. Plant Molecular Biology, 2004, 55, 327-342.	3.9	225
20	Plant Raf-like kinase integrates abscisic acid and hyperosmotic stress signaling upstream of SNF1-related protein kinase2. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6388-96.	7.1	137
21	Two Closely Related Subclass II SnRK2 Protein Kinases Cooperatively Regulate Drought-Inducible Gene Expression. Plant and Cell Physiology, 2010, 51, 842-847.	3.1	123
22	Sequencing and Analysis of Approximately 40 000 Soybean cDNA Clones from a Full-Length-Enriched cDNA Library. DNA Research, 2008, 15, 333-346.	3.4	98
23	Chemical regulation of abscisic acid catabolism in plants by cytochrome P450 inhibitors. Bioorganic and Medicinal Chemistry, 2005, 13, 4491-4498.	3.0	94
24	Enhancement of salt tolerance in soybean with NaCl pretreatment. Physiologia Plantarum, 2000, 110, 59-63.	5.2	82
25	SnRK2 protein kinases represent an ancient system in plants for adaptation to a terrestrial environment. Communications Biology, 2019, 2, 30.	4.4	76
26	Arabidopsis Rafâ€like kinases act as positive regulators of subclass III SnRK2 in osmostress signaling. Plant Journal, 2020, 103, 634-644.	5.7	71
27	Phosphoproteomic profiling reveals <scp>ABA</scp>â€responsive phosphosignaling pathways in Physcomitrella patens. Plant Journal, 2018, 94, 699-708.	5.7	48
28	Archetypal Roles of an Abscisic Acid Receptor in Drought and Sugar Responses in Liverworts. Plant Physiology, 2019, 179, 317-328.	4.8	46
29	Discrimination of genes expressed in response to the ionic or osmotic effect of salt stress in soybean with cDNA-AFLP. Plant, Cell and Environment, 2002, 25, 1617-1625.	5.7	42
30	The PP2Câ€“SnRK2 complex. Plant Signaling and Behavior, 2010, 5, 160-163.	2.4	42
31	Analysis of gene expression profiles in Arabidopsis salt overly sensitive mutants sos2-1 and sos3 -1. Plant, Cell and Environment, 2005, 28, 1267-1275.	5.7	40
32	Arabidopsis group C Raf-like protein kinases negatively regulate abscisic acid signaling and are direct substrates of SnRK2. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	25
33	Genome wide cDNA-AFLP analysis of genes rapidly induced by combined sucrose and ABA treatment in rice cultured cells. FEBS Letters, 2006, 580, 5947-5952.	2.8	24
34	Drought Stress Signaling Network. , 2014, , 383-409.		23
35	Systems biology approaches to abscisic acid signaling. Journal of Plant Research, 2011, 124, 539-548.	2.4	22
36	Large-Scale Phosphoproteomic Study of Arabidopsis Membrane Proteins Reveals Early Signaling Events in Response to Cold. International Journal of Molecular Sciences, 2020, 21, 8631.	4.1	19

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37	Growth Promotion or Osmotic Stress Response: How SNF1-Related Protein Kinase 2 (SnRK2) Kinases Are Activated and Manage Intracellular Signaling in Plants. Plants, 2021, 10, 1443.	3.5	16
38	Novel Abscisic Acid Antagonists Identified with Chemical Array Screening. ChemBioChem, 2015, 16, 2471-2478.	2.6	14
39	Enhancement of abiotic stress tolerance in poplar by overexpression of key Arabidopsis stress response genes, AtSRK2C and AtGolS2. Molecular Breeding, 2017, 37, 1.	2.1	14
40	Comparative Phosphoproteomic Analysis Reveals a Decay of ABA Signaling in Barley Embryos during After-Ripening. Plant and Cell Physiology, 2019, 60, 2758-2768.	3.1	14
41	Activation of SnRK2 by Raf-like kinase ARK represents a primary mechanism of ABA and abiotic stress responses. Plant Physiology, 2021, 185, 533-546.	4.8	14
42	Phosphorylation Networks in the Abscisic Acid Signaling Pathway. The Enzymes, 2014, 35, 27-56.	1.7	12
43	Comparative Phosphoproteomic Analysis of Barley Embryos with Different Dormancy during Imbibition. International Journal of Molecular Sciences, 2019, 20, 451.	4.1	11
44	A role for PM19-Like 1 in seed dormancy in Arabidopsis. Seed Science Research, 2019, 29, 184-196.	1.7	9
45	Transcriptome Analysis of Plant Drought and Salt Stress Response. , 2007, , 261-283.		8
46	The Regulatory Networks of Plant Responses to Abscisic Acid. Advances in Botanical Research, 2011, , 201-248.	1.1	6
47	Identification of novel compounds that inhibit SnRK2 kinase activity by high-throughput screening. Biochemical and Biophysical Research Communications, 2021, 537, 57-63.	2.1	6
48	Construction of a High-density AFLP and SSR Map Using Recombinant Inbred Lines of Cultivated * Weedy Soybean. Breeding Science, 2003, 53, 335-344.	1.9	4
49	Stress Signaling Networks: Drought Stress. , 2013, , 1-23.		3
50	Genomic Analysis of Stress Respnse. , 0, , 248-265.		2
51	Identification of QTLs controlling somatic embryogenesis using RI population of cultivarÂÃ—Âweedy soybean. Plant Biotechnology Reports, 2010, 4, 23-27.	1.5	2
52	Phosphorylation Of KAT1 C-terminus Modulates K+ Uptake Activity. Biophysical Journal, 2009, 96, 171a.	0.5	1
53	Screening of Kinase Substrates Using Kinase Knockout Mutants. Methods in Molecular Biology, 2015, 1306, 59-69.	0.9	1
54	Expression analysis of cellulose synthases that comprise the Type II complex in hybrid aspen. Plant Biology, 2019, 21, 361-370.	3.8	1

#	Article	IF	Citations
55	Protein Phosphorylation Network in Abscisic Acid Signaling. , 2013, , 155-164.		1
56	Phosphoproteomic Approaches to Evaluate. Methods in Molecular Biology, 2022, 2462, 163-179.	0.9	0