

# Taishi Umezawa

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56 papers	11,021 citations	30 h-index	61 g-index
61 ext. papers	13,091 ext. citations	6.6 avg, IF	5.46 L-index

#	Paper	IF	Citations
56	Phosphoproteomic Approaches to Evaluate ABA Signaling.. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2462, 163-179	1.4	
55	Activation of SnRK2 by Raf-like kinase ARK represents a primary mechanism of ABA and abiotic stress responses. <i>Plant Physiology</i> , <b>2021</b> , 185, 533-546	6.6	3
54	Growth Promotion or Osmotic Stress Response: How SNF1-Related Protein Kinase 2 (SnRK2) Kinases Are Activated and Manage Intracellular Signaling in Plants. <i>Plants</i> , <b>2021</b> , 10,	4.5	4
53	group C Raf-like protein kinases negatively regulate abscisic acid signaling and are direct substrates of SnRK2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	5
52	Identification of novel compounds that inhibit SnRK2 kinase activity by high-throughput screening. <i>Biochemical and Biophysical Research Communications</i> , <b>2021</b> , 537, 57-63	3.4	2
51	Large-Scale Phosphoproteomic Study of Membrane Proteins Reveals Early Signaling Events in Response to Cold. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	6
50	Arabidopsis Raf-like kinases act as positive regulators of subclass III SnRK2 in osmostress signaling. <i>Plant Journal</i> , <b>2020</b> , 103, 634-644	6.9	30
49	SnRK2 protein kinases represent an ancient system in plants for adaptation to a terrestrial environment. <i>Communications Biology</i> , <b>2019</b> , 2, 30	6.7	56
48	Comparative Phosphoproteomic Analysis of Barley Embryos with Different Dormancy during Imbibition. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	7
47	Comparative Phosphoproteomic Analysis Reveals a Decay of ABA Signaling in Barley Embryos during After-Ripening. <i>Plant and Cell Physiology</i> , <b>2019</b> , 60, 2758-2768	4.9	8
46	A role for PM19-Like 1 in seed dormancy in Arabidopsis. <i>Seed Science Research</i> , <b>2019</b> , 29, 184-196	1.3	4
45	Archetypal Roles of an Absciscic Acid Receptor in Drought and Sugar Responses in Liverworts. <i>Plant Physiology</i> , <b>2019</b> , 179, 317-328	6.6	30
44	Expression analysis of cellulose synthases that comprise the Type II complex in hybrid aspen. <i>Plant Biology</i> , <b>2019</b> , 21, 361-370	3.7	1
43	Phosphoproteomic profiling reveals ABA-responsive phosphosignaling pathways in <i>Physcomitrella patens</i> . <i>Plant Journal</i> , <b>2018</b> , 94, 699-708	6.9	25
42	Enhancement of abiotic stress tolerance in poplar by overexpression of key Arabidopsis stress response genes, AtSRK2C and AtGolS2. <i>Molecular Breeding</i> , <b>2017</b> , 37, 1	3.4	12
41	Plant Raf-like kinase integrates abscisic acid and hyperosmotic stress signaling upstream of SNF1-related protein kinase2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, E6388-96	11.5	91
40	Screening of kinase substrates using kinase knockout mutants. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1306, 59-69	1.4	1

39	Novel Absciscic Acid Antagonists Identified with Chemical Array Screening. <i>ChemBioChem</i> , <b>2015</b> , 16, 2471-2488	13.8	12
38	Drought Stress Signaling Network <b>2014</b> , 383-409		9
37	Phosphorylation networks in the absciscic Acid signaling pathway. <i>The Enzymes</i> , <b>2014</b> , 35, 27-56	2.3	7
36	Stress Signaling Networks: Drought Stress <b>2013</b> , 1-23		2
35	Osmotic stress responses and plant growth controlled by potassium transporters in Arabidopsis. <i>Plant Cell</i> , <b>2013</b> , 25, 609-24	11.6	237
34	Genetics and phosphoproteomics reveal a protein phosphorylation network in the absciscic acid signaling pathway in Arabidopsis thaliana. <i>Science Signaling</i> , <b>2013</b> , 6, rs8	8.8	259
33	Protein Phosphorylation Network in Absciscic Acid Signaling <b>2013</b> , 155-164		1
32	The Regulatory Networks of Plant Responses to Absciscic Acid. <i>Advances in Botanical Research</i> , <b>2011</b> , 201-248	2.4	5
31	Systems biology approaches to absciscic acid signaling. <i>Journal of Plant Research</i> , <b>2011</b> , 124, 539-48	2.6	22
30	Genome sequence of the palaeopolyploid soybean. <i>Nature</i> , <b>2010</b> , 463, 178-83	50.4	2997
29	Two closely related subclass II SnRK2 protein kinases cooperatively regulate drought-inducible gene expression. <i>Plant and Cell Physiology</i> , <b>2010</b> , 51, 842-7	4.9	102
28	Molecular basis of the core regulatory network in ABA responses: sensing, signaling and transport. <i>Plant and Cell Physiology</i> , <b>2010</b> , 51, 1821-39	4.9	612
27	The PP2C-SnRK2 complex: the central regulator of an absciscic acid signaling pathway. <i>Plant Signaling and Behavior</i> , <b>2010</b> , 5, 160-3	2.5	28
26	Identification of QTLs controlling somatic embryogenesis using RI population of cultivar 'Weedy soybean. <i>Plant Biotechnology Reports</i> , <b>2010</b> , 4, 23-27	2.5	2
25	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. <i>Biochemical Journal</i> , <b>2009</b> , 424, 439-48	2.8	276
24	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. <i>Plant and Cell Physiology</i> , <b>2009</b> , 50, 1345-63	4.9	495
23	Three SnRK2 protein kinases are the main positive regulators of absciscic acid signaling in response to water stress in Arabidopsis. <i>Plant and Cell Physiology</i> , <b>2009</b> , 50, 2123-32	4.9	457
22	Type 2C protein phosphatases directly regulate absciscic acid-activated protein kinases in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 17588-93	11.5	681

21	Antagonistic interaction between systemic acquired resistance and the abscisic acid-mediated abiotic stress response in Arabidopsis. <i>Plant Cell</i> , <b>2008</b> , 20, 1678-92	11.6	367
20	Arabidopsis DREB2A-interacting proteins function as RING E3 ligases and negatively regulate plant drought stress-responsive gene expression. <i>Plant Cell</i> , <b>2008</b> , 20, 1693-707	11.6	361
19	Sequencing and analysis of approximately 40,000 soybean cDNA clones from a full-length-enriched cDNA library. <i>DNA Research</i> , <b>2008</b> , 15, 333-46	4.5	86
18	A heterocomplex of iron superoxide dismutases defends chloroplast nucleoids against oxidative stress and is essential for chloroplast development in Arabidopsis. <i>Plant Cell</i> , <b>2008</b> , 20, 3148-62	11.6	201
17	Transcriptome Analysis of Plant Drought and Salt Stress Response <b>2007</b> , 261-283		5
16	Regulatory metabolic networks in drought stress responses. <i>Current Opinion in Plant Biology</i> , <b>2007</b> , 10, 296-302	9.9	636
15	Abscisic acid-dependent multisite phosphorylation regulates the activity of a transcription activator AREB1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 1988-93	11.5	578
14	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. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 5310-8	5.4	388
13	Genome wide cDNA-AFLP analysis of genes rapidly induced by combined sucrose and ABA treatment in rice cultured cells. <i>FEBS Letters</i> , <b>2006</b> , 580, 5947-52	3.8	23
12	CYP707A3, a major ABA 8Hydroxylase involved in dehydration and rehydration response in Arabidopsis thaliana. <i>Plant Journal</i> , <b>2006</b> , 46, 171-82	6.9	233
11	Engineering drought tolerance in plants: discovering and tailoring genes to unlock the future. <i>Current Opinion in Biotechnology</i> , <b>2006</b> , 17, 113-22	11.4	575
10	Chemical regulation of abscisic acid catabolism in plants by cytochrome P450 inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , <b>2005</b> , 13, 4491-8	3.4	75
9	Analysis of gene expression profiles in Arabidopsis salt overly sensitive mutants sos2 <sup>1</sup> and sos3 <sup>1</sup> . <i>Plant, Cell and Environment</i> , <b>2005</b> , 28, 1267-1275	8.4	35
8	SRK2C, a SNF1-related protein kinase 2, improves drought tolerance by controlling stress-responsive gene expression in Arabidopsis thaliana. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 17306-11	11.5	272
7	Crosstalk in the responses to abiotic and biotic stresses in Arabidopsis: analysis of gene expression in cytochrome P450 gene superfamily by cDNA microarray. <i>Plant Molecular Biology</i> , <b>2004</b> , 55, 327-42	4.6	184
6	Construction of a High-density AFLP and SSR Map Using Recombinant Inbred Lines of Cultivated * Weedy Soybean. <i>Breeding Science</i> , <b>2003</b> , 53, 335-344	2	4
5	Monitoring the expression pattern of around 7,000 Arabidopsis genes under ABA treatments using a full-length cDNA microarray. <i>Functional and Integrative Genomics</i> , <b>2002</b> , 2, 282-91	3.8	353
4	Discrimination of genes expressed in response to the ionic or osmotic effect of salt stress in soybean with cDNA-AFLP. <i>Plant, Cell and Environment</i> , <b>2002</b> , 25, 1617-1625	8.4	37

3	Enhancement of salt tolerance in soybean with NaCl pretreatment. <i>Physiologia Plantarum</i> , <b>2000</b> , 110, 59-63	4.6	71
2	Genomic Analysis of Stress Respnse248-265		2
1	SNF1-related protein kinase 2 directly regulate group C Raf-like protein kinases in abscisic acid signaling		1