

Hidetoshi Iida

List of Publications by Year in descending order

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65
papers

2,908
citations

201674

27
h-index

175258

52
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docs citations

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times ranked

2375
citing authors

#	ARTICLE	IF	CITATIONS
1	Entanglement of Arabidopsis Seedlings to a Mesh Substrate under Microgravity Conditions in KIBO on the ISS. <i>Plants</i> , 2022, 11, 956.	3.5	0
2	The root growth reduction in response to mechanical stress involves ethylene-mediated microtubule reorganization and transmembrane receptor-mediated signal transduction in Arabidopsis. <i>Plant Cell Reports</i> , 2021, 40, 575-582.	5.6	17
3	The gravistimulation-induced very slow Ca ²⁺ increase in Arabidopsis seedlings requires MCA1, a Ca ²⁺ -permeable mechanosensitive channel. <i>Scientific Reports</i> , 2021, 11, 227.	3.3	12
4	A Method Enabling Comprehensive Isolation of Arabidopsis Mutants Exhibiting Unusual Root Mechanical Behavior. <i>Frontiers in Plant Science</i> , 2021, 12, 646404.	3.6	6
5	Mix and match: Patchwork domain evolution of the land plant-specific Ca ²⁺ -permeable mechanosensitive channel MCA. <i>PLoS ONE</i> , 2021, 16, e0249735.	2.5	10
6	MCAs in Arabidopsis are Ca ²⁺ -permeable mechanosensitive channels inherently sensitive to membrane tension. <i>Nature Communications</i> , 2021, 12, 6074.	12.8	37
7	Highly conserved extracellular residues mediate interactions between pore-forming and regulatory subunits of the yeast Ca ²⁺ channel related to the animal VGCC/NALCN family. <i>Journal of Biological Chemistry</i> , 2020, 295, 13008-13022.	3.4	3
8	The ER-associated protease Ste24 prevents N-terminal signal peptide-independent translocation into the endoplasmic reticulum in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2020, 295, 10406-10419.	3.4	14
9	MCA1 and MCA2 Are Involved in the Response to Hypergravity in Arabidopsis Hypocotyls. <i>Plants</i> , 2020, 9, 590.	3.5	23
10	Ca ²⁺ -permeable mechanosensitive channels MCA1 and MCA2 mediate cold-induced cytosolic Ca ²⁺ increase and cold tolerance in Arabidopsis. <i>Scientific Reports</i> , 2018, 8, 550.	3.3	97
11	Molecular Mechanisms of Mechanosensing and Mechanotransduction. , 2018, , 375-397.		2
12	Coupling of a voltage-gated Ca ²⁺ channel homologue with a plasma membrane H ⁺ -ATPase in yeast. <i>Genes To Cells</i> , 2017, 22, 94-104.	1.2	5
13	Post-translational processing and membrane translocation of the yeast regulatory Mid1 subunit of the Cch1/VGCC/NALCN cation channel family. <i>Journal of Biological Chemistry</i> , 2017, 292, 20570-20582.	3.4	9
14	Sensors Make Sense of Signaling. <i>Plant and Cell Physiology</i> , 2017, 58, 1121-1125.	3.1	6
15	Genetic analysis of the regulation of the voltage-gated calcium channel homolog Cch1 by the \hat{I}^3 subunit homolog Ecm7 and cortical ER protein Scs2 in yeast. <i>PLoS ONE</i> , 2017, 12, e0181436.	2.5	9
16	Transmembrane Topologies of Ca ²⁺ -permeable Mechanosensitive Channels MCA1 and MCA2 in Arabidopsis thaliana. <i>Journal of Biological Chemistry</i> , 2015, 290, 30901-30909.	3.4	31
17	Involvement of Ca ²⁺ in Vacuole Degradation Caused by a Rapid Temperature Decrease in <i>Saintpaulia</i> Palisade Cells: A Case of Gene Expression Analysis in a Specialized Small Tissue. <i>Plant and Cell Physiology</i> , 2015, 56, 1297-1305.	3.1	8
18	Mechanosensitive channel candidate MCA2 is involved in touch-induced root responses in Arabidopsis. <i>Frontiers in Plant Science</i> , 2014, 5, 421.	3.6	5

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19	Mugifumi, a beneficial farm work of adding mechanical stress by treading to wheat and barley seedlings. <i>Frontiers in Plant Science</i> , 2014, 5, 453.	3.6	25
20	Mechanosensitive channels Msy1 and Msy2 are required for maintaining organelle integrity upon hypoosmotic shock in <i>Schizosaccharomyces pombe</i> . <i>FEMS Yeast Research</i> , 2014, 14, 992-994.	2.3	13
21	Organelle mechanosensitive channels involved in hypo-osmoregulation in fission yeast. <i>Cell Calcium</i> , 2014, 56, 467-471.	2.4	10
22	Structural Characterization of the Mechanosensitive Channel Candidate MCA2 from <i>Arabidopsis thaliana</i> . <i>PLoS ONE</i> , 2014, 9, e87724.	2.5	30
23	Electrophysiological Characterization of the Mechanosensitive Channel MscCG in <i>Corynebacterium glutamicum</i> . <i>Biophysical Journal</i> , 2013, 105, 1366-1375.	0.5	35
24	Plant mechanosensing and Ca ²⁺ transport. <i>Trends in Plant Science</i> , 2013, 18, 227-233.	8.8	143
25	Hyperactive and hypoactive mutations in Cch1, a yeast homologue of the voltage-gated calcium-channel pore-forming subunit. <i>Microbiology (United Kingdom)</i> , 2013, 159, 970-979.	1.8	17
26	A Gain-of-Function Mutation in Gating of <i>Corynebacterium glutamicum</i> NCgl1221 Causes Constitutive Glutamate Secretion. <i>Applied and Environmental Microbiology</i> , 2012, 78, 5432-5434.	3.1	26
27	Roles of a putative mechanosensitive plasma membrane Ca ²⁺ -permeable channel OsMCA1 in generation of reactive oxygen species and hypo-osmotic signaling in rice. <i>Plant Signaling and Behavior</i> , 2012, 7, 796-798.	2.4	13
28	KIMID1, a relevant key player between endoplasmic reticulum homeostasis and mitochondrial dysfunction in <i>Kluyveromyces lactis</i> . <i>Microbiology (United Kingdom)</i> , 2012, 158, 1694-1701.	1.8	2
29	Expression of <i>Arabidopsis</i> MCA1 enhanced mechanosensitive channel activity in the <i>Xenopus laevis</i> oocyte plasma membrane. <i>Plant Signaling and Behavior</i> , 2012, 7, 1022-1026.	2.4	58
30	Organelle mechanosensitive channels in fission yeast regulate the hypo-osmotic shock response. <i>Nature Communications</i> , 2012, 3, 1020.	12.8	79
31	Involvement of the putative Ca ²⁺ -permeable mechanosensitive channels, NtMCA1 and NtMCA2, in Ca ²⁺ uptake, Ca ²⁺ -dependent cell proliferation and mechanical stress-induced gene expression in tobacco (<i>Nicotiana tabacum</i>) BY-2 cells. <i>Journal of Plant Research</i> , 2012, 125, 555-568.	2.4	54
32	Plasma membrane protein OsMCA1 is involved in regulation of hypo-osmotic shock-induced Ca ²⁺ influx and modulates generation of reactive oxygen species in cultured rice cells. <i>BMC Plant Biology</i> , 2012, 12, 11.	3.6	107
33	Mechanoreception in motile flagella of <i>Chlamydomonas</i> . <i>Nature Cell Biology</i> , 2011, 13, 630-632.	10.3	91
34	Determination of Structural Regions Important for Ca ²⁺ Uptake Activity in <i>Arabidopsis</i> MCA1 and MCA2 Expressed in Yeast. <i>Plant and Cell Physiology</i> , 2011, 52, 1915-1930.	3.1	37
35	MCA1 and MCA2 That Mediate Ca ²⁺ Uptake Have Distinct and Overlapping Roles in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2010, 152, 1284-1296.	4.8	169
36	Role of glycine residues highly conserved in the S2-S3 linkers of domains I and II of voltage-gated calcium channel α_1 subunits. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 966-974.	2.6	0

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37	Ion-channel blocker sensitivity of voltage-gated calcium-channel homologue Cch1 in <i>Saccharomyces cerevisiae</i> . <i>Microbiology (United Kingdom)</i> , 2008, 154, 3775-3781.	1.8	45
38	Essential, Completely Conserved Glycine Residue in the Domain III S2â€“S3 Linker of Voltage-gated Calcium Channel Î±1 Subunits in Yeast and Mammals. <i>Journal of Biological Chemistry</i> , 2007, 282, 25659-25667.	3.4	18
39	<i>Arabidopsis</i> plasma membrane protein crucial for Ca ²⁺ influx and touch sensing in roots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3639-3644.	7.1	352
40	Polarized Morphogenesis Regulator Spa2 Is Required for the Function of Putative Stretch-Activated Ca ²⁺ -Permeable Channel Component Mid1 in <i>Saccharomyces cerevisiae</i> . <i>Eukaryotic Cell</i> , 2005, 4, 1353-1363.	3.4	5
41	Identification of functional domains of Mid1, a stretch-activated channel component, necessary for localization to the plasma membrane and Ca ²⁺ permeation. <i>Experimental Cell Research</i> , 2005, 311, 84-95.	2.6	16
42	Evidence for the plasma membrane localization of a putative voltage-dependent Ca ²⁺ channel, OsTPC1, in rice. <i>Plant Biotechnology</i> , 2005, 22, 235-239.	1.0	18
43	A Mechanosensitive Anion Channel in <i>Arabidopsis thaliana</i> Mesophyll Cells. <i>Plant and Cell Physiology</i> , 2004, 45, 1704-1708.	3.1	45
44	Functional Analysis of a Rice Putative Voltage-Dependent Ca ²⁺ Channel, OsTPC1, Expressed in Yeast Cells Lacking its Homologous Gene CCH1. <i>Plant and Cell Physiology</i> , 2004, 45, 496-500.	3.1	45
45	Molecular cloning in yeast by in vivo homologous recombination of the yeast putative Î±1 subunit of the voltage-gated calcium channel. <i>FEBS Letters</i> , 2004, 576, 291-296.	2.8	32
46	Subcellular localization and oligomeric structure of the yeast putative stretch-activated Ca ²⁺ channel component Mid1. <i>Experimental Cell Research</i> , 2004, 293, 185-195.	2.6	44
47	Molecular Dissection of the Hydrophobic Segments H3 and H4 of the Yeast Ca ²⁺ Channel Component Mid1. <i>Journal of Biological Chemistry</i> , 2003, 278, 9647-9654.	3.4	24
48	Pressure-Induced Differential Regulation of the Two Tryptophan Permeases Tat1 and Tat2 by Ubiquitin Ligase Rsp5 and Its Binding Proteins, Bul1 and Bul2. <i>Molecular and Cellular Biology</i> , 2003, 23, 7566-7584.	2.3	107
49	Essential Hydrophilic Carboxyl-terminal Regions Including Cysteine Residues of the Yeast Stretch-activated Calcium-permeable Channel Mid1. <i>Journal of Biological Chemistry</i> , 2002, 277, 11645-11652.	3.4	19
50	Phenylethylamine Induces an Increase in Cytosolic Ca ²⁺ in Yeast. <i>Bioscience, Biotechnology and Biochemistry</i> , 2002, 66, 1069-1074.	1.3	14
51	Ca ²⁺ Signal is Generated Only Once in the Mating Pheromone Response Pathway in <i>Saccharomyces cerevisiae</i> . <i>Cell Structure and Function</i> , 2000, 25, 125-131.	1.1	13
52	yam8+, a <i>Schizosaccharomyces pombe</i> Gene, Is a Potential Homologue of the <i>Saccharomyces cerevisiae</i> MID1 Gene Encoding a Stretch- Activated Ca ²⁺ -Permeable Channel. <i>Biochemical and Biophysical Research Communications</i> , 2000, 269, 265-269.	2.1	14
53	Molecular Identification of a Eukaryotic, Stretch-Activated Nonselective Cation Channel. <i>Science</i> , 1999, 285, 882-886.	12.6	205
54	Salicylic Acid Induces a Cytosolic Ca ²⁺ Elevation in Yeast. <i>Bioscience, Biotechnology and Biochemistry</i> , 1998, 62, 986-989.	1.3	16

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55	Calmodulin-dependent protein kinase II and calmodulin are required for induced thermotolerance in <i>Saccharomyces cerevisiae</i> . <i>Current Genetics</i> , 1995, 27, 190-193.	1.7	20
56	Cooperation of Calcineurin and Vacuolar H ⁺ -ATPase in Intracellular Ca ²⁺ -Homeostasis of Yeast Cells. <i>Journal of Biological Chemistry</i> , 1995, 270, 10113-10119.	3.4	82
57	Intracellular free calcium level and its response to cAMP stimulation in developing <i>Dictyostelium</i> cells transformed with jellyfish apoaequorin cDNA. <i>FEBS Letters</i> , 1994, 337, 43-47.	2.8	63
58	The MID2 gene encodes a putative integral membrane protein with a Ca ²⁺ -binding domain and shows mating pheromone-stimulated expression in <i>Saccharomyces cerevisiae</i> . <i>Gene</i> , 1994, 151, 203-208.	2.2	52
59	Galactose-dependent expression of the recombinant Ca ²⁺ -binding photoprotein aequorin in yeast. <i>Biochemical and Biophysical Research Communications</i> , 1991, 174, 115-122.	2.1	15
60	A DBL-homologous region of the yeast <i>CLS4CDC24</i> gene product is important for Ca ²⁺ -modulated bud assembly. <i>Biochemical and Biophysical Research Communications</i> , 1991, 181, 604-610.	2.1	37
61	Heat shock induction of intranuclear actin rods in cultured mammalian cells. <i>Experimental Cell Research</i> , 1986, 165, 207-215.	2.6	92
62	A heat shock-resistant variant of Chinese hamster cell line constitutively expressing heat shock protein of Mr 90,000 at high level.. <i>Cell Structure and Function</i> , 1986, 11, 65-73.	1.1	48
63	Yeast heat-shock protein of Mr 48,000 is an isoprotein of enolase. <i>Nature</i> , 1985, 315, 688-690.	27.8	209
64	Differential transcription of fd RFI DNA by <i>Caulobacter crescentus</i> and <i>Escherichia coli</i> RNA polymerases. <i>FEBS Letters</i> , 1979, 99, 346-350.	2.8	3
65	Regulation of polar surface structures in <i>Caulobacter crescentus</i> : Pleiotropic mutations affect the coordinate morphogenesis of flagella, pili and phage receptors. <i>Molecular Genetics and Genomics</i> , 1976, 149, 167-173.	2.4	34