

Shintaro Munemasa

List of Publications by Year in descending order

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72
papers

5,846
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101384

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#	ARTICLE	IF	CITATIONS
1	Oxalic Acid Mitigates Cadmium Toxicity in <i>Cicer arietinum</i> L. Germinating Seeds by Maintaining the Cellular Redox Homeostasis. <i>Journal of Plant Growth Regulation</i> , 2022, 41, 697-709.	2.8	17
2	Green Tea Catechins, (âˆ“)â€Catechin Gallate, and (âˆ“)â€Gallocatechin Gallate are Potent Inhibitors of ABAâ€Induced Stomatal Closure. <i>Advanced Science</i> , 2022, 9, e2201403.	5.6	4
3	Phytocytokine signalling reopens stomata in plant immunity and water loss. <i>Nature</i> , 2022, 605, 332-339.	13.7	64
4	Plant hormone regulation of abiotic stress responses. <i>Nature Reviews Molecular Cell Biology</i> , 2022, 23, 680-694.	16.1	279
5	A role for calciumâ€dependent protein kinases in differential CO ₂ â€and ABAâ€controlled stomatal closing and low CO ₂ â€induced stomatal opening in <i>Arabidopsis</i> . <i>New Phytologist</i> , 2021, 229, 2765-2779.	3.5	38
6	ELEVATION OF CYTOSOLIC CALCIUM IN GUARD CELLS. <i>Journal of Environmental Science for Sustainable Society</i> , 2021, 10, MR02_p5-MR02_p8.	0.1	0
7	Calcium and ethylene glycol tetraacetic acid mitigate toxicity and alteration of gene expression associated with cadmium stress in chickpea (<i>Cicer arietinum</i> L.) shoots. <i>Protoplasma</i> , 2021, 258, 849-861.	1.0	23
8	Modulation of frequency and height of cytosolic calcium spikes by plasma membrane anion channels in guard cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 2003-2010.	0.6	1
9	White rice ethanol extract is qualitatively, but not quantitatively, equivalent to that of brown rice as an antioxidant source. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 2161-2168.	0.6	4
10	MAP3Kinase-dependent SnRK2-kinase activation is required for abscisic acid signal transduction and rapid osmotic stress response. <i>Nature Communications</i> , 2020, 11, 12.	5.8	202
11	Stomatal immunity against fungal invasion comprises not only chitin-induced stomatal closure but also chitosan-induced guard cell death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 20932-20942.	3.3	43
12	Exogenous proline enhances antioxidant enzyme activities but does not mitigate growth inhibition by selenate stress in tobacco BY-2 cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 2281-2292.	0.6	11
13	Stomatal response to isothiocyanates in <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2020, 71, 6921-6931.	2.4	5
14	Reactive Carbonyl Species Mediate Methyl Jasmonate-Induced Stomatal Closure. <i>Plant and Cell Physiology</i> , 2020, 61, 1788-1797.	1.5	21
15	The Myrosinases TGG1 and TGG2 Function Redundantly in Reactive Carbonyl Species Signaling in <i>Arabidopsis</i> Guard Cells. <i>Plant and Cell Physiology</i> , 2020, 61, 967-977.	1.5	13
16	Interaction of intracellular hydrogen peroxide accumulation with nitric oxide production in abscisic acid signaling in guard cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 1418-1426.	0.6	4
17	Salicylic acid receptor NPR1 is involved in guard cell chitosan signaling. <i>Bioscience, Biotechnology and Biochemistry</i> , 2020, 84, 963-969.	0.6	8
18	The mechanism of SO ₂ â€induced stomatal closure differs from O ₃ and CO ₂ responses and is mediated by nonapoptotic cell death in guard cells. <i>Plant, Cell and Environment</i> , 2019, 42, 437-447.	2.8	12

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19	Ethylene Inhibits Methyl Jasmonate-Induced Stomatal Closure by Modulating Guard Cell Slow-Type Anion Channel Activity via the OPEN STOMATA 1/SnRK2.6 Kinase-Independent Pathway in Arabidopsis. <i>Plant and Cell Physiology</i> , 2019, 60, 2263-2271.	1.5	28
20	Reactive Carbonyl Species Function as Signal Mediators Downstream of H ₂ O ₂ Production and Regulate [Ca ²⁺] _{cyt} Elevation in ABA Signal Pathway in Arabidopsis Guard Cells. <i>Plant and Cell Physiology</i> , 2019, 60, 1146-1159.	1.5	39
21	Effects of calcium and EGTA on thiol homeostasis and defense-related enzymes in Cd-exposed chickpea roots. <i>Acta Physiologiae Plantarum</i> , 2018, 40, 1.	1.0	11
22	Mechanism of Stomatal Closure in Plants Exposed to Drought and Cold Stress. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1081, 215-232.	0.8	161
23	Abscisic acid-independent stomatal CO ₂ signal transduction pathway and convergence of CO ₂ and ABA signaling downstream of OST1 kinase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9971-E9980.	3.3	91
24	Benzyl isothiocyanate ameliorates lipid accumulation in 3T3-L1 preadipocytes during adipocyte differentiation. <i>Bioscience, Biotechnology and Biochemistry</i> , 2018, 82, 2130-2139.	0.6	5
25	Methyl- β -cyclodextrin potentiates the BITC-induced anti-cancer effect through modulation of the Akt phosphorylation in human colorectal cancer cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2018, 82, 2158-2167.	0.6	10
26	Guard Cell Salicylic Acid Signaling Is Integrated into Abscisic Acid Signaling via the Ca ²⁺ /CPK-Dependent Pathway. <i>Plant Physiology</i> , 2018, 178, 441-450.	2.3	107
27	Eukaryotic lipid metabolic pathway is essential for functional chloroplasts and CO ₂ and light responses in <i>Arabidopsis</i> guard cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9038-9043.	3.3	32
28	Exogenous proline enhances the sensitivity of Tobacco BY-2 cells to arsenate. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 1726-1731.	0.6	7
29	Chitosan signaling in guard cells requires endogenous salicylic acid. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 1536-1541.	0.6	13
30	3,4-Dihydroxyphenylacetic acid is a potential aldehyde dehydrogenase inducer in murine hepatoma Hepa1c1c7 cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 1978-1983.	0.6	19
31	Benzyl isothiocyanate ameliorates acetaldehyde-induced cytotoxicity by enhancing aldehyde dehydrogenase activity in murine hepatoma Hepa1c1c7 cells. <i>Food and Chemical Toxicology</i> , 2017, 108, 305-313.	1.8	17
32	Inhibition of phosphatidylinositide 3-kinase ameliorates antiproliferation by benzyl isothiocyanate in human colon cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2017, 491, 209-216.	1.0	39
33	Blue light and CO ₂ signals converge to regulate light-induced stomatal opening. <i>Nature Communications</i> , 2017, 8, 1284.	5.8	100
34	Galloylated Catechins as Potent Inhibitors of Angiotensin Converting Enzyme. <i>Food Science and Technology Research</i> , 2016, 22, 847-851.	0.3	5
35	L-Met Activates Arabidopsis GLR Ca ²⁺ Channels Upstream of ROS Production and Regulates Stomatal Movement. <i>Cell Reports</i> , 2016, 17, 2553-2561.	2.9	71
36	Involvement of OST1 Protein Kinase and PYR/PYL/RCAR Receptors in Methyl Jasmonate-Induced Stomatal Closure in Arabidopsis Guard Cells. <i>Plant and Cell Physiology</i> , 2016, 57, 1779-1790.	1.5	42

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37	A novel tag-free probe for targeting molecules interacting with a flavonoid catabolite. <i>Biochemistry and Biophysics Reports</i> , 2016, 7, 240-245.	0.7	6
38	Calcium and EGTA Alleviate Cadmium Toxicity in Germinating Chickpea Seeds. <i>Journal of Plant Growth Regulation</i> , 2016, 35, 1064-1073.	2.8	30
39	Reactive Carbonyl Species Mediate ABA Signaling in Guard Cells. <i>Plant and Cell Physiology</i> , 2016, 57, 2552-2563.	1.5	42
40	Calcium specificity signaling mechanisms in abscisic acid signal transduction in Arabidopsis guard cells. <i>ELife</i> , 2015, 4, .	2.8	172
41	Inhibition by acrolein of light-induced stomatal opening through inhibition of inward-rectifying potassium channels in <i>Arabidopsis thaliana</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2015, 79, 59-62.	0.6	8
42	Diverse Stomatal Signaling and the Signal Integration Mechanism. <i>Annual Review of Plant Biology</i> , 2015, 66, 369-392.	8.6	321
43	Identification of Open Stomata1-Interacting Proteins Reveals Interactions with Sucrose Non-fermenting1-Related Protein Kinases2 and with Type 2A Protein Phosphatases That Function in Abscisic Acid Responses. <i>Plant Physiology</i> , 2015, 169, 760-779.	2.3	100
44	Open Stomata 1 Kinase is Essential for Yeast Elicitor-Induced Stomatal Closure in Arabidopsis. <i>Plant and Cell Physiology</i> , 2015, 56, 1239-1248.	1.5	18
45	Mechanisms of abscisic acid-mediated control of stomatal aperture. <i>Current Opinion in Plant Biology</i> , 2015, 28, 154-162.	3.5	438
46	Nuclear factor-kappaB sensitizes to benzyl isothiocyanate-induced antiproliferation in p53-deficient colorectal cancer cells. <i>Cell Death and Disease</i> , 2014, 5, e1534-e1534.	2.7	31
47	Cyclic adenosine 5'-diphosphoribose (cADPR) cyclic guanosine 3',5'-monophosphate positively function in Ca ²⁺ elevation in methyl jasmonate-induced stomatal closure, cADPR is required for methyl jasmonate-induced ROS accumulation NO production in guard cells. <i>Plant Biology</i> , 2014, 16, 1140-1144.	1.8	14
48	Negative Regulation of Methyl Jasmonate-Induced Stomatal Closure by Glutathione in Arabidopsis. <i>Journal of Plant Growth Regulation</i> , 2013, 32, 208-215.	2.8	26
49	Endogenous abscisic acid is involved in methyl jasmonate-induced reactive oxygen species and nitric oxide production but not in cytosolic alkalization in Arabidopsis guard cells. <i>Journal of Plant Physiology</i> , 2013, 170, 1212-1215.	1.6	24
50	Calcium-Dependent Protein Kinase CPK6 Positively Functions in Induction by Yeast Elicitor of Stomatal Closure and Inhibition by Yeast Elicitor of Light-Induced Stomatal Opening in Arabidopsis. <i>Plant Physiology</i> , 2013, 163, 591-599.	2.3	57
51	Regulation of reactive oxygen species-mediated abscisic acid signaling in guard cells and drought tolerance by glutathione. <i>Frontiers in Plant Science</i> , 2013, 4, 472.	1.7	60
52	Neither Endogenous Abscisic Acid nor Endogenous Jasmonate Is Involved in Salicylic Acid-, Yeast Elicitor-, or Chitosan-Induced Stomatal Closure in <i>Arabidopsis thaliana</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 1111-1113.	0.6	25
53	Identification of Cyclic GMP-Activated Nonselective Ca ²⁺ -Permeable Cation Channels and Associated CNGC5 and CNGC6 Genes in Arabidopsis Guard Cells. <i>Plant Physiology</i> , 2013, 163, 578-590.	2.3	111
54	FIA functions as an early signal component of abscisic acid signal cascade in <i>Vicia faba</i> guard cells. <i>Journal of Experimental Botany</i> , 2012, 63, 1357-1365.	2.4	20

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55	K252a-sensitive protein kinases but not okadaic acid-sensitive protein phosphatases regulate methyl jasmonate-induced cytosolic Ca ²⁺ oscillation in guard cells of <i>Arabidopsis thaliana</i> . <i>Journal of Plant Physiology</i> , 2011, 168, 1901-1908.	1.6	7
56	Negative regulation of abscisic acid-induced stomatal closure by glutathione in <i>Arabidopsis</i> . <i>Journal of Plant Physiology</i> , 2011, 168, 2048-2055.	1.6	68
57	Involvement of extracellular oxidative burst in salicylic acid-induced stomatal closure in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2011, 34, 434-443.	2.8	292
58	Allyl isothiocyanate (AITC) induces stomatal closure in <i>Arabidopsis</i> . <i>Plant, Cell and Environment</i> , 2011, 34, 1900-1906.	2.8	93
59	Chemical Genetics Reveals Negative Regulation of Abscisic Acid Signaling by a Plant Immune Response Pathway. <i>Current Biology</i> , 2011, 21, 990-997.	1.8	152
60	Involvement of Endogenous Abscisic Acid in Methyl Jasmonate-Induced Stomatal Closure in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2011, 156, 430-438.	2.3	189
61	The <i>Arabidopsis</i> Calcium-Dependent Protein Kinase, CPK6, Functions as a Positive Regulator of Methyl Jasmonate Signaling in Guard Cells. <i>Plant Physiology</i> , 2011, 155, 553-561.	2.3	144
62	Methyl jasmonate signaling and signal crosstalk between methyl jasmonate and abscisic acid in guard cells. <i>Plant Signaling and Behavior</i> , 2011, 6, 939-941.	1.2	67
63	Closing Plant Stomata Requires a Homolog of an Aluminum-Activated Malate Transporter. <i>Plant and Cell Physiology</i> , 2010, 51, 354-365.	1.5	159
64	Roles of AtTPC1, Vacuolar Two Pore Channel 1, in <i>Arabidopsis</i> Stomatal Closure. <i>Plant and Cell Physiology</i> , 2010, 51, 302-311.	1.5	86
65	Chitosan-Induced Stomatal Closure Accompanied by Peroxidase-Mediated Reactive Oxygen Species Production in <i>Arabidopsis</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 2313-2315.	0.6	65
66	Yeast Elicitor-Induced Stomatal Closure and Peroxidase-Mediated ROS Production in <i>Arabidopsis</i> . <i>Plant and Cell Physiology</i> , 2010, 51, 1915-1921.	1.5	75
67	Cytosolic Alkalization and Cytosolic Calcium Oscillation in <i>Arabidopsis</i> Guard Cells Response to ABA and MeJA. <i>Plant and Cell Physiology</i> , 2010, 51, 1721-1730.	1.5	72
68	MAP kinases <i>MPK9</i> and <i>MPK12</i> are preferentially expressed in guard cells and positively regulate ROS-mediated ABA signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20520-20525.	3.3	368
69	Purification of the functional plant membrane channel KAT1. <i>Biochemical and Biophysical Research Communications</i> , 2008, 374, 465-469.	1.0	7
70	Roles of RCN1, Regulatory A Subunit of Protein Phosphatase 2A, in Methyl Jasmonate Signaling and Signal Crosstalk between Methyl Jasmonate and Abscisic Acid. <i>Plant and Cell Physiology</i> , 2008, 49, 1396-1401.	1.5	84
71	The coronatine-insensitive 1 Mutation Reveals the Hormonal Signaling Interaction between Abscisic Acid and Methyl Jasmonate in <i>Arabidopsis</i> Guard Cells. Specific Impairment of Ion Channel Activation and Second Messenger Production. <i>Plant Physiology</i> , 2007, 143, 1398-1407.	2.3	319
72	CDPKs CPK6 and CPK3 Function in ABA Regulation of Guard Cell S-Type Anion- and Ca ²⁺ - Permeable Channels and Stomatal Closure. <i>PLoS Biology</i> , 2006, 4, e327.	2.6	523