

Akihiro Matsui

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56
papers

2,513
citations

26
h-index

50
g-index

58
ext. papers

3,139
ext. citations

4.9
avg, IF

4.48
L-index

#	Paper	IF	Citations
56	Arabidopsis transcriptome analysis under drought, cold, high-salinity and ABA treatment conditions using a tiling array. <i>Plant and Cell Physiology</i> , 2008 , 49, 1135-49	4.9	407
55	Alterations of lysine modifications on the histone H3 N-tail under drought stress conditions in Arabidopsis thaliana. <i>Plant and Cell Physiology</i> , 2008 , 49, 1580-8	4.9	248
54	Genome-wide suppression of aberrant mRNA-like noncoding RNAs by NMD in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2453-8	11.5	145
53	Transition of chromatin status during the process of recovery from drought stress in Arabidopsis thaliana. <i>Plant and Cell Physiology</i> , 2012 , 53, 847-56	4.9	142
52	Acetate-mediated novel survival strategy against drought in plants. <i>Nature Plants</i> , 2017 , 3, 17097	11.5	129
51	Arabidopsis HDA6 regulates locus-directed heterochromatin silencing in cooperation with MET1. <i>PLoS Genetics</i> , 2011 , 7, e1002055	6	119
50	Transcriptome analyses of a salt-tolerant cytokinin-deficient mutant reveal differential regulation of salt stress response by cytokinin deficiency. <i>PLoS ONE</i> , 2012 , 7, e32124	3.7	112
49	Genome-wide analysis of endogenous abscisic acid-mediated transcription in dry and imbibed seeds of Arabidopsis using tiling arrays. <i>Plant Journal</i> , 2010 , 62, 39-51	6.9	95
48	Transcriptome analysis using a high-density oligomicroarray under drought stress in various genotypes of cassava: an important tropical crop. <i>DNA Research</i> , 2012 , 19, 335-45	4.5	79
47	A Stress-Activated Transposon in Arabidopsis Induces Transgenerational Abscisic Acid Insensitivity. <i>Scientific Reports</i> , 2016 , 6, 23181	4.9	67
46	AtXTH27 plays an essential role in cell wall modification during the development of tracheary elements. <i>Plant Journal</i> , 2005 , 42, 525-34	6.9	64
45	Transcriptomic Analysis of Soil-Grown Arabidopsis thaliana Roots and Shoots in Response to a Drought Stress. <i>Frontiers in Plant Science</i> , 2016 , 7, 180	6.2	58
44	RNA regulation in plant abiotic stress responses. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2012 , 1819, 149-53	6	51
43	Identification of the candidate genes regulated by RNA-directed DNA methylation in Arabidopsis. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 376, 553-7	3.4	49
42	Ethanol Enhances High-Salinity Stress Tolerance by Detoxifying Reactive Oxygen Species in and Rice. <i>Frontiers in Plant Science</i> , 2017 , 8, 1001	6.2	47
41	Analysis of differential expression patterns of mRNA and protein during cold-acclimation and de-acclimation in Arabidopsis. <i>Molecular and Cellular Proteomics</i> , 2014 , 13, 3602-11	7.6	47
40	The Distinct Roles of Class I and II RPD3-Like Histone Deacetylases in Salinity Stress Response. <i>Plant Physiology</i> , 2017 , 175, 1760-1773	6.6	45

39	Loss of Arabidopsis 5' Exoribonuclease AtXRN4 Function Enhances Heat Stress Tolerance of Plants Subjected to Severe Heat Stress. <i>Plant and Cell Physiology</i> , 2015 , 56, 1762-72	4.9	43
38	Transduction of RNA-directed DNA methylation signals to repressive histone marks in <i>Arabidopsis thaliana</i> . <i>EMBO Journal</i> , 2010 , 29, 352-62	13	43
37	<i>Arabidopsis</i> non-coding RNA regulation in abiotic stress responses. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 22642-54	6.3	41
36	tasiRNA-ARF pathway moderates floral architecture in <i>Arabidopsis</i> plants subjected to drought stress. <i>BioMed Research International</i> , 2014 , 2014, 303451	3	40
35	Recent advances in the characterization of plant transcriptomes in response to drought, salinity, heat, and cold stress. <i>F1000Research</i> , 2019 , 8,	3.6	35
34	Ky-2, a Histone Deacetylase Inhibitor, Enhances High-Salinity Stress Tolerance in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2016 , 57, 776-83	4.9	35
33	The Histone Deacetylase Inhibitor Suberoylanilide Hydroxamic Acid Alleviates Salinity Stress in Cassava. <i>Frontiers in Plant Science</i> , 2016 , 7, 2039	6.2	29
32	<i>Arabidopsis</i> tiling array analysis to identify the stress-responsive genes. <i>Methods in Molecular Biology</i> , 2010 , 639, 141-55	1.4	26
31	Oligouridylate Binding Protein 1b Plays an Integral Role in Plant Heat Stress Tolerance. <i>Frontiers in Plant Science</i> , 2016 , 7, 853	6.2	26
30	Acetic Acid Treatment Enhances Drought Avoidance in Cassava (Crantz). <i>Frontiers in Plant Science</i> , 2019 , 10, 521	6.2	24
29	Cassava (<i>Manihot esculenta</i>) transcriptome analysis in response to infection by the fungus <i>Colletotrichum gloeosporioides</i> using an oligonucleotide-DNA microarray. <i>Journal of Plant Research</i> , 2016 , 129, 711-726	2.6	21
28	<i>Arabidopsis</i> molybdenum cofactor sulfurase ABA3 contributes to anthocyanin accumulation and oxidative stress tolerance in ABA-dependent and independent ways. <i>Scientific Reports</i> , 2018 , 8, 16592	4.9	20
27	Transcriptome analyses revealed diverse expression changes in ago1 and hyl1 <i>Arabidopsis</i> mutants. <i>Plant and Cell Physiology</i> , 2009 , 50, 1715-20	4.9	18
26	The AtXTH28 gene, a xyloglucan endotransglucosylase/hydrolase, is involved in automatic self-pollination in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2009 , 50, 413-22	4.9	18
25	Formation of friable embryogenic callus in cassava is enhanced under conditions of reduced nitrate, potassium and phosphate. <i>PLoS ONE</i> , 2017 , 12, e0180736	3.7	14
24	Versatility of HDA19-deficiency in increasing the tolerance of <i>Arabidopsis</i> to different environmental stresses. <i>Plant Signaling and Behavior</i> , 2018 , 13, e1475808	2.5	14
23	Sm-Like Protein-Mediated RNA Metabolism Is Required for Heat Stress Tolerance in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2016 , 7, 1079	6.2	14
22	Transcriptome analysis of soybean (<i>Glycine max</i>) root genes differentially expressed in rhizobial, arbuscular mycorrhizal, and dual symbiosis. <i>Journal of Plant Research</i> , 2019 , 132, 541-568	2.6	13

21	Novel Stress-Inducible Antisense RNAs of Protein-Coding Loci Are Synthesized by RNA-Dependent RNA Polymerase. <i>Plant Physiology</i> , 2017 , 175, 457-472	6.6	12
20	ARTADE2DB: improved statistical inferences for <i>Arabidopsis</i> gene functions and structure predictions by dynamic structure-based dynamic expression (DSDE) analyses. <i>Plant and Cell Physiology</i> , 2011 , 52, 254-64	4.9	12
19	Overexpression of oligouridylate binding protein 1b results in ABA hypersensitivity. <i>Plant Signaling and Behavior</i> , 2017 , 12, e1282591	2.5	11
18	Biological Function of Changes in RNA Metabolism in Plant Adaptation to Abiotic Stress. <i>Plant and Cell Physiology</i> , 2019 , 60, 1897-1905	4.9	10
17	Transcriptomic analysis of <i>Arabidopsis thaliana</i> plants treated with the Ky-9 and Ky-72 histone deacetylase inhibitors. <i>Plant Signaling and Behavior</i> , 2018 , 13, e1448333	2.5	10
16	Transcriptome Analysis of the Hierarchical Response of Histone Deacetylase Proteins That Respond in an Antagonistic Manner to Salinity Stress. <i>Frontiers in Plant Science</i> , 2019 , 10, 1323	6.2	9
15	The Involvement of Long Noncoding RNAs in Response to Plant Stress. <i>Methods in Molecular Biology</i> , 2019 , 1933, 151-171	1.4	8
14	Integrative omics approaches revealed a crosstalk among phytohormones during tuberous root development in cassava. <i>Plant Molecular Biology</i> , 2020 , 1	4.6	7
13	Field transcriptome analysis reveals a molecular mechanism for cassava-flowering in a mountainous environment in Southeast Asia. <i>Plant Molecular Biology</i> , 2020 , 1	4.6	7
12	Drought stress differentially regulates the expression of small open reading frames (sORFs) in <i>Arabidopsis</i> roots and shoots. <i>Plant Signaling and Behavior</i> , 2016 , 11, e1215792	2.5	7
11	Inhibition of mitochondrial complex I by the novel compound FSL0260 enhances high salinity-stress tolerance in <i>Arabidopsis thaliana</i> . <i>Scientific Reports</i> , 2020 , 10, 8691	4.9	6
10	Positional correlation analysis improves reconstruction of full-length transcripts and alternative isoforms from noisy array signals or short reads. <i>Bioinformatics</i> , 2012 , 28, 929-37	7.2	6
9	Highly reproducible ChIP-on-chip analysis to identify genome-wide protein binding and chromatin status in <i>Arabidopsis thaliana</i> . <i>Methods in Molecular Biology</i> , 2014 , 1062, 405-26	1.4	6
8	PtWOX11 acts as master regulator conducting the expression of key transcription factors to induce de novo shoot organogenesis in poplar. <i>Plant Molecular Biology</i> , 2018 , 98, 389-406	4.6	6
7	Transcriptome Analysis of Plant Drought and Salt Stress Response 2007 , 261-283		5
6	Microarray Analysis for Studying the Abiotic Stress Responses in Plants 2010 , 333-355		3
5	Alterations of Lysine Modifications on the Histone H3 N-Tail under Drought Stress Conditions in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2009 , 50, 1856-1856	4.9	2
4	Overexpression of nicotinamidase 3 (NIC3) gene and the exogenous application of nicotinic acid (NA) enhance drought tolerance and increase biomass in <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 2021 , 107, 63-84	4.6	2

LIST OF PUBLICATIONS

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|---|--|-----|---|
| 3 | Monitoring Transcriptomic Changes in Soil-Grown Roots and Shoots of <i>Arabidopsis thaliana</i> Subjected to a Progressive Drought Stress. <i>Methods in Molecular Biology</i> , 2018 , 1761, 223-230 | 1.4 | 1 |
| 2 | The duration of ethanol-induced high-salinity stress tolerance in <i>Arabidopsis thaliana</i> . <i>Plant Signaling and Behavior</i> , 2018 , 13, e1500065 | 2.5 | 1 |
| 1 | Transcriptome Analysis of Plants Treated with a New Compound Natolen128, Enhancing Salt Stress Tolerance. <i>Plants</i> , 2021 , 10, | 4.5 | 1 |