Akihiro Matsui

List of Publications by Year in Descending Order

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	Transcriptome Analysis of Plants Treated with a New Compound Natolen128, Enhancing Salt Stress Tolerance. *Plants*, **2021**, 10,	4.5	1
55	Overexpression of nicotinamidase 3 (NIC3) gene and the exogenous application of nicotinic acid (NA) enhance drought tolerance and increase biomass in Arabidopsis. *Plant Molecular Biology*, **2021**, 107, 63-84	4.6	2
54	Inhibition of mitochondrial complex I by the novel compound FSL0260 enhances high salinity-stress tolerance in Arabidopsis thaliana. *Scientific Reports*, **2020**, 10, 8691	4.9	6
53	Integrative omics approaches revealed a crosstalk among phytohormones during tuberous root development in cassava. *Plant Molecular Biology*, **2020**, 1	4.6	7
52	Field transcriptome analysis reveals a molecular mechanism for cassava-flowering in a mountainous environment in Southeast Asia. *Plant Molecular Biology*, **2020**, 1	4.6	7
51	Transcriptome analysis of soybean (Glycine max) root genes differentially expressed in rhizobial, arbuscular mycorrhizal, and dual symbiosis. *Journal of Plant Research*, **2019**, 132, 541-568	2.6	13
50	Recent advances in the characterization of plant transcriptomes in response to drought, salinity, heat, and cold stress. *F1000Research*, **2019**, 8,	3.6	35
49	Biological Function of Changes in RNA Metabolism in Plant Adaptation to Abiotic Stress. *Plant and Cell Physiology*, **2019**, 60, 1897-1905	4.9	10
48	Acetic Acid Treatment Enhances Drought Avoidance in Cassava (Crantz). *Frontiers in Plant Science*, **2019**, 10, 521	6.2	24
47	The Involvement of Long Noncoding RNAs in Response to Plant Stress. *Methods in Molecular Biology*, **2019**, 1933, 151-171	1.4	8
46	Transcriptome Analysis of the Hierarchical Response of Histone Deacetylase Proteins That Respond in an Antagonistic Manner to Salinity Stress. *Frontiers in Plant Science*, **2019**, 10, 1323	6.2	9
45	Transcriptomic analysis of Arabidopsis thaliana plants treated with the Ky-9 and Ky-72 histone deacetylase inhibitors. *Plant Signaling and Behavior*, **2018**, 13, e1448333	2.5	10
44	Monitoring Transcriptomic Changes in Soil-Grown Roots and Shoots of Arabidopsis thaliana Subjected to a Progressive Drought Stress. *Methods in Molecular Biology*, **2018**, 1761, 223-230	1.4	1
43	The duration of ethanol-induced high-salinity stress tolerance in Arabidopsis thaliana. *Plant Signaling and Behavior*, **2018**, 13, e1500065	2.5	1
42	Versatility of HDA19-deficiency in increasing the tolerance of Arabidopsis to different environmental stresses. *Plant Signaling and Behavior*, **2018**, 13, e1475808	2.5	14
41	Arabidopsis molybdenum cofactor sulfurase ABA3 contributes to anthocyanin accumulation and oxidative stress tolerance in ABA-dependent and independent ways. *Scientific Reports*, **2018**, 8, 16592	4.9	20
40	PtWOX11 acts as master regulator conducting the expression of key transcription factors to induce de novo shoot organogenesis in poplar. *Plant Molecular Biology*, **2018**, 98, 389-406	4.6	6

39	Overexpression of oligouridylate binding protein 1b results in ABA hypersensitivity. *Plant Signaling and Behavior*, **2017**, 12, e1282591	2.5	11
38	The Distinct Roles of Class I and II RPD3-Like Histone Deacetylases in Salinity Stress Response. *Plant Physiology*, **2017**, 175, 1760-1773	6.6	45
37	Formation of friable embryogenic callus in cassava is enhanced under conditions of reduced nitrate, potassium and phosphate. *PLoS ONE*, **2017**, 12, e0180736	3.7	14
36	Novel Stress-Inducible Antisense RNAs of Protein-Coding Loci Are Synthesized by RNA-Dependent RNA Polymerase. *Plant Physiology*, **2017**, 175, 457-472	6.6	12
35	Acetate-mediated novel survival strategy against drought in plants. *Nature Plants*, **2017**, 3, 17097	11.5	129
34	Ethanol Enhances High-Salinity Stress Tolerance by Detoxifying Reactive Oxygen Species in and Rice. *Frontiers in Plant Science*, **2017**, 8, 1001	6.2	47
33	A Stress-Activated Transposon in Arabidopsis Induces Transgenerational Abscisic Acid Insensitivity. *Scientific Reports*, **2016**, 6, 23181	4.9	67
32	Ky-2, a Histone Deacetylase Inhibitor, Enhances High-Salinity Stress Tolerance in Arabidopsis thaliana. *Plant and Cell Physiology*, **2016**, 57, 776-83	4.9	35
31	The Histone Deacetylase Inhibitor Suberoylanilide Hydroxamic Acid Alleviates Salinity Stress in Cassava. *Frontiers in Plant Science*, **2016**, 7, 2039	6.2	29
30	Transcriptomic Analysis of Soil-Grown Arabidopsis thaliana Roots and Shoots in Response to a Drought Stress. *Frontiers in Plant Science*, **2016**, 7, 180	6.2	58
29	Oligouridylate Binding Protein 1b Plays an Integral Role in Plant Heat Stress Tolerance. *Frontiers in Plant Science*, **2016**, 7, 853	6.2	26
28	Sm-Like Protein-Mediated RNA Metabolism Is Required for Heat Stress Tolerance in Arabidopsis. *Frontiers in Plant Science*, **2016**, 7, 1079	6.2	14
27	Cassava (Manihot esculenta) transcriptome analysis in response to infection by the fungus Colletotrichum gloeosporioides using an oligonucleotide-DNA microarray. *Journal of Plant Research* , **2016**, 129, 711-726	2.6	21
26	Drought stress differentially regulates the expression of small open reading frames (sORFs) in Arabidopsis roots and shoots. *Plant Signaling and Behavior*, **2016**, 11, e1215792	2.5	7
25	Loss of Arabidopsis 5'-3' Exoribonuclease AtXRN4 Function Enhances Heat Stress Tolerance of Plants Subjected to Severe Heat Stress. *Plant and Cell Physiology*, **2015**, 56, 1762-72	4.9	43
24	tasiRNA-ARF pathway moderates floral architecture in Arabidopsis plants subjected to drought stress. *BioMed Research International*, **2014**, 2014, 303451	3	40
23	Analysis of differential expression patterns of mRNA and protein during cold-acclimation and de-acclimation in Arabidopsis. *Molecular and Cellular Proteomics*, **2014**, 13, 3602-11	7.6	47
22	Highly reproducible ChIP-on-chip analysis to identify genome-wide protein binding and chromatin status in Arabidopsis thaliana. *Methods in Molecular Biology*, **2014**, 1062, 405-26	1.4	6

21	Arabidopsis non-coding RNA regulation in abiotic stress responses. *International Journal of Molecular Sciences*, **2013**, 14, 22642-54	6.3	41
20	RNA regulation in plant abiotic stress responses. *Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms*, **2012**, 1819, 149-53	6	51
19	Positional correlation analysis improves reconstruction of full-length transcripts and alternative isoforms from noisy array signals or short reads. *Bioinformatics*, **2012**, 28, 929-37	7.2	6
18	Transcriptome analysis using a high-density oligomicroarray under drought stress in various genotypes of cassava: an important tropical crop. *DNA Research*, **2012**, 19, 335-45	4.5	79
17	Transition of chromatin status during the process of recovery from drought stress in Arabidopsis thaliana. *Plant and Cell Physiology*, **2012**, 53, 847-56	4.9	142
16	Transcriptome analyses of a salt-tolerant cytokinin-deficient mutant reveal differential regulation of salt stress response by cytokinin deficiency. *PLoS ONE*, **2012**, 7, e32124	3.7	112
15	ARTADE2DB: improved statistical inferences for Arabidopsis gene functions and structure predictions by dynamic structure-based dynamic expression (DSDE) analyses. *Plant and Cell Physiology*, **2011**, 52, 254-64	4.9	12
14	Arabidopsis HDA6 regulates locus-directed heterochromatin silencing in cooperation with MET1. *PLoS Genetics*, **2011**, 7, e1002055	6	119
13	Genome-wide analysis of endogenous abscisic acid-mediated transcription in dry and imbibed seeds of Arabidopsis using tiling arrays. *Plant Journal*, **2010**, 62, 39-51	6.9	95
12	Transduction of RNA-directed DNA methylation signals to repressive histone marks in Arabidopsis thaliana. *EMBO Journal*, **2010**, 29, 352-62	13	43
11	Arabidopsis tiling array analysis to identify the stress-responsive genes. *Methods in Molecular Biology*, **2010**, 639, 141-55	1.4	26
10	Microarray Analysis for Studying the Abiotic Stress Responses in Plants **2010**, 333-355		3
9	Genome-wide suppression of aberrant mRNA-like noncoding RNAs by NMD in Arabidopsis. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 2453-8	11.5	145
8	Alterations of Lysine Modifications on the Histone H3 N-Tail under Drought Stress Conditions in Arabidopsis thaliana. *Plant and Cell Physiology*, **2009**, 50, 1856-1856	4.9	2
7	Transcriptome analyses revealed diverse expression changes in ago1 and hyl1 Arabidopsis mutants. *Plant and Cell Physiology*, **2009**, 50, 1715-20	4.9	18
6	The AtXTH28 gene, a xyloglucan endotransglucosylase/hydrolase, is involved in automatic self-pollination in Arabidopsis thaliana. *Plant and Cell Physiology*, **2009**, 50, 413-22	4.9	18
5	Arabidopsis transcriptome analysis under drought, cold, high-salinity and ABA treatment conditions using a tiling array. *Plant and Cell Physiology*, **2008**, 49, 1135-49	4.9	407
4	Identification of the candidate genes regulated by RNA-directed DNA methylation in Arabidopsis. *Biochemical and Biophysical Research Communications*, **2008**, 376, 553-7	3.4	49

3	Alterations of lysine modifications on the histone H3 N-tail under drought stress conditions in Arabidopsis thaliana. *Plant and Cell Physiology*, **2008**, 49, 1580-8	4.9	248
2	Transcriptome Analysis of Plant Drought and Salt Stress Response **2007**, 261-283		5
1	AtXTH27 plays an essential role in cell wall modification during the development of tracheary elements. *Plant Journal*, **2005**, 42, 525-34	6.9	64