

# Ayako Nishizawa-Yokoi

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

3,193  
citations

331670

21  
h-index

330143

37  
g-index

39  
all docs

39  
docs citations

39  
times ranked

4408  
citing authors

#	ARTICLE	IF	CITATIONS
1	Galactinol and Raffinose Constitute a Novel Function to Protect Plants from Oxidative Damage. <i>Plant Physiology</i> , 2008, 147, 1251-1263.	4.8	888
2	Arabidopsis heat shock transcription factor A2 as a key regulator in response to several types of environmental stress. <i>Plant Journal</i> , 2006, 48, 535-547.	5.7	481
3	CRISPR/Cas9-mediated mutagenesis of the RIN locus that regulates tomato fruit ripening. <i>Biochemical and Biophysical Research Communications</i> , 2015, 467, 76-82.	2.1	269
4	HsfA1d and HsfA1e Involved in the Transcriptional Regulation of HsfA2 Function as Key Regulators for the Hsf Signaling Network in Response to Environmental Stress. <i>Plant and Cell Physiology</i> , 2011, 52, 933-945.	3.1	204
5	Arabidopsis NAC Transcription Factor, ANAC078, Regulates Flavonoid Biosynthesis under High-light. <i>Plant and Cell Physiology</i> , 2009, 50, 2210-2222.	3.1	197
6	Re-evaluation of the rin mutation and the role of RIN in the induction of tomato ripening. <i>Nature Plants</i> , 2017, 3, 866-874.	9.3	181
7	The contribution of carbohydrates including raffinose family oligosaccharides and sugar alcohols to protection of plant cells from oxidative damage. <i>Plant Signaling and Behavior</i> , 2008, 3, 1016-1018.	2.4	120
8	A Novel Rice Cytochrome P450 Gene, <i>CYP72A31</i> , Confers Tolerance to Acetolactate Synthase-Inhibiting Herbicides in Rice and Arabidopsis. <i>Plant Physiology</i> , 2014, 166, 1232-1240.	4.8	115
9	The 26S Proteasome Function and Hsp90 Activity Involved in the Regulation of HsfA2 Expression in Response to Oxidative Stress. <i>Plant and Cell Physiology</i> , 2010, 51, 486-496.	3.1	70
10	Suppression of Ku70/80 or Lig4 leads to decreased stable transformation and enhanced homologous recombination in rice. <i>New Phytologist</i> , 2012, 196, 1048-1059.	7.3	64
11	Precision genome editing in plants via gene targeting and <i>piggyBac</i> -mediated marker excision. <i>Plant Journal</i> , 2015, 81, 160-168.	5.7	61
12	Analysis of the Regulation of Target Genes by an Arabidopsis Heat Shock Transcription Factor, HsfA2. <i>Bioscience, Biotechnology and Biochemistry</i> , 2009, 73, 890-895.	1.3	59
13	A Defect in DNA Ligase4 Enhances the Frequency of TALEN-Mediated Targeted Mutagenesis in Rice. <i>Plant Physiology</i> , 2016, 170, 653-666.	4.8	47
14	Positive-negative-selection-mediated gene targeting in rice. <i>Frontiers in Plant Science</i> , 2014, 5, 748.	3.6	41
15	Precise marker excision system using an animal-derived <i>piggyBac</i> transposon in plants. <i>Plant Journal</i> , 2014, 77, 454-463.	5.7	38
16	Allelic Mutations in the <i>Ripening-Inhibitor</i> Locus Generate Extensive Variation in Tomato Ripening. <i>Plant Physiology</i> , 2020, 183, 80-95.	4.8	36
17	Acclimation to Diverse Environmental Stresses Caused by a Suppression of Cytosolic Ascorbate Peroxidase in Tobacco BY-2 cells. <i>Plant and Cell Physiology</i> , 2005, 46, 1264-1271.	3.1	32
18	Overexpression of OsRecQ14 and/or OsExo1 Enhances DSB-Induced Homologous Recombination in Rice. <i>Plant and Cell Physiology</i> , 2012, 53, 2142-2152.	3.1	32

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19	<i>Agrobacterium</i> T $\alpha$ CDNA integration in somatic cells does not require the activity of DNA polymerase $\beta$ . <i>New Phytologist</i> , 2021, 229, 2859-2872.	7.3	30
20	DNA replication arrest leads to enhanced homologous recombination and cell death in meristems of rice OsRecQ14 mutants. <i>BMC Plant Biology</i> , 2013, 13, 62.	3.6	29
21	A Mutated Cytosine Deaminase Gene, codA (D314A), as an Efficient Negative Selection Marker for Gene Targeting in Rice. <i>Plant and Cell Physiology</i> , 2014, 55, 658-665.	3.1	22
22	A Universal Positive-Negative Selection System for Gene Targeting in Plants Combining an Antibiotic Resistance Gene and Its Antisense RNA. <i>Plant Physiology</i> , 2015, 169, 362-370.	4.8	20
23	Simultaneous TALEN-mediated knockout of chrysanthemum DMC1 genes confers male and female sterility. <i>Scientific Reports</i> , 2020, 10, 16165.	3.3	20
24	A <i>piggyBac</i> -mediated transgenesis system for the temporary expression of CRISPR/Cas9 in rice. <i>Plant Biotechnology Journal</i> , 2021, 19, 1386-1395.	8.3	20
25	Involvement of Arabidopsis NAC transcription factor in the regulation of 20S and 26S proteasomes. <i>Plant Science</i> , 2011, 181, 421-427.	3.6	17
26	Characterization of methylmalonyl-CoA mutase involved in the propionate photoassimilation of <i>Euglena gracilis</i> Z. <i>Archives of Microbiology</i> , 2010, 192, 437-446.	2.2	16
27	Identification of recognition sequence of ANAC078 protein by the cyclic amplification and selection of targets technique. <i>Plant Signaling and Behavior</i> , 2010, 5, 695-697.	2.4	15
28	The non-homologous end-joining pathway is involved in stable transformation in rice. <i>Frontiers in Plant Science</i> , 2014, 5, 560.	3.6	12
29	Targeted Mutagenesis in Rice Using TALENs and the CRISPR/Cas9 System. <i>Methods in Molecular Biology</i> , 2016, 1469, 123-135.	0.9	12
30	A Universal System of CRISPR/Cas9-Mediated Gene Targeting Using All-in-One Vector in Plants. <i>Frontiers in Genome Editing</i> , 2020, 2, 604289.	5.2	11
31	DNA Methylation Affects the Efficiency of Transcription Activator-Like Effector Nucleases-Mediated Genome Editing in Rice. <i>Frontiers in Plant Science</i> , 2017, 8, 302.	3.6	10
32	Precise Genome Editing in miRNA Target Site via Gene Targeting and Subsequent Single-Strand-Annealing-Mediated Excision of the Marker Gene in Plants. <i>Frontiers in Genome Editing</i> , 2020, 2, 617713.	5.2	6
33	<i>Arabidopsis Sgt1a</i> as an important factor for the acquirement of thermotolerance. <i>Plant Science</i> , 2009, 177, 676-681.	3.6	5
34	Gene Expression and Transcription Factor Binding Tests Using Mutated-Promoter Reporter Lines. <i>Methods in Molecular Biology</i> , 2018, 1830, 291-305.	0.9	4
35	Seamless Genome Editing in Rice via Gene Targeting and Precise Marker Elimination. <i>Methods in Molecular Biology</i> , 2016, 1469, 137-146.	0.9	2
36	Rice Genome Editing. , 2018, , 523-539.		2

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37	Real-Time Monitoring of Key Gene Products Involved in Rice Photoperiodic Flowering. <i>Frontiers in Plant Science</i> , 2021, 12, 766450.	3.6	2
38	An oligonucleotide/oligosaccharide-binding-fold protein enhances the alternative splicing event producing thylakoid membrane-bound ascorbate peroxidase in <i>Nicotiana tabacum</i> . <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	1.8	2