Hiro-Yuki Hirano

List of Publications by Year
in descending order

84 papers	5,507 citations	94433 37 h-index	79698 73 g-index
84 all docs	84 docs citations	84 times ranked	4020 citing authors

#	Article	IF	Citations
1	SUPERWOMAN1 and DROOPING LEAFgenes control floral organ identity in rice. Development (Cambridge), 2003, 130, 705-718.	2.5	412
2	The YABBY Gene DROOPING LEAF Regulates Carpel Specification and Midrib Development in Oryza sativa Â[W]. Plant Cell, 2004, 16, 500-509.	6.6	390
3	Functional Diversification of the Two C-Class MADS Box Genes OSMADS3 and OSMADS58 in Oryza sativa. Plant Cell, 2005, 18, 15-28.	6.6	322
4	The gene FLORAL ORGAN NUMBER1 regulates floral meristem size in rice and encodes a leucine-rich repeat receptor kinase orthologous to Arabidopsis CLAVATA1. Development (Cambridge), 2004, 131, 5649-5657.	2.5	267
5	The plant MITE mPing is mobilized in anther culture. Nature, 2003, 421, 167-170.	27.8	251
6	Molecular analysis of the NAC gene family in rice. Molecular Genetics and Genomics, 2000, 262, 1047-1051.	2.4	206
7	Genetics and Evolution of Inflorescence and Flower Development in Grasses. Plant and Cell Physiology, 2005, 46, 69-78.	3.1	203
8	A single base change altered the regulation of the Waxy gene at the posttranscriptional level during the domestication of rice. Molecular Biology and Evolution, 1998, 15, 978-987.	8.9	177
9	The homeotic gene <i>long sterile lemma</i> (<i>G1</i>) specifies sterile lemma identity in the rice spikelet. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20103-20108.	7.1	163
10	Conservation and Diversification of Meristem Maintenance Mechanism in Oryza sativa : Function of the FLORAL ORGAN NUMBER2 Gene. Plant and Cell Physiology, 2006, 47, 1591-1602.	3.1	159
11	Grass Meristems II: Inflorescence Architecture, Flower Development and Meristem Fate. Plant and Cell Physiology, 2013, 54, 313-324.	3.1	159
12	OsNAC6, a member of the NAC gene family, is induced by various stresses in rice. Genes and Genetic Systems, 2005, 80, 135-139.	0.7	158
13	Allelic diversification at the wx locus in landraces of Asian rice. Theoretical and Applied Genetics, 2008, 116, 979-989.	3.6	142
14	Axillary Meristem Formation in Rice Requires the <i>WUSCHEL</i> Ortholog <i>TILLERS ABSENT1</i>. Plant Cell, 2015, 27, 1173-1184.	6.6	141
15	The<i>YABBY</i>Gene<i>TONGARI-BOUSHI1</i>Is Involved in Lateral Organ Development and Maintenance of Meristem Organization in the Rice Spikelet. Plant Cell, 2012, 24, 80-95.	6.6	132
16	<i>WUSCHEL-RELATED HOMEOBOX4</i>Is Involved in Meristem Maintenance and Is Negatively Regulated by the CLE Gene<i>FCP1</i>in Rice. Plant Cell, 2013, 25, 229-241.	6.6	129
17	Molecular characterization the YABBY gene family in Oryza sativa and expression analysis of OsYABBY1. Molecular Genetics and Genomics, 2007, 277, 457-468.	2.1	124
18	<i>ABERRANT SPIKELET AND PANICLE1</i>, encoding a TOPLESSâ€related transcriptional coâ€repressor, is involved in the regulation of meristem fate in rice. Plant Journal, 2012, 70, 327-339.	5.7	109

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19	Grass Meristems I: Shoot Apical Meristem Maintenance, Axillary Meristem Determinacy and the Floral Transition. Plant and Cell Physiology, 2013, 54, 302-312.	3.1	109
20	Enhancement of Wx Gene Expression and the Accumulation of Amylose in Response to Cool Temperatures during Seed Development in Rice. Plant and Cell Physiology, 1998, 39, 807-812.	3.1	102
21	Distinct Regulation of Adaxial-Abaxial Polarity in Anther Patterning in Rice Â Â. Plant Cell, 2010, 22, 1452-1462.	6.6	96
22	Functional Diversification of CLAVATA3-Related CLE Proteins in Meristem Maintenance in Rice Â. Plant Cell, 2008, 20, 2049-2058.	6.6	94
23	Molecular Characterization of the waxy Locus of Rice (Oryza sativa). Plant and Cell Physiology, 1991, 32, 989-997.	3.1	93
24	Two WUSCHEL-related homeobox Genes, narrow leaf2 and narrow leaf3, Control Leaf Width in Rice. Plant and Cell Physiology, 2013, 54, 779-792.	3.1	85
25	Temporal and spatial regulation of <i>DROOPING LEAF</i> gene expression that promotes midrib formation in rice. Plant Journal, 2011, 65, 77-86.	5.7	77
26	The <i><scp>DROOPING LEAF</scp></i> and <i><scp>O</scp>s<scp>ETTIN</scp>2</i> genes promote awn development in rice. Plant Journal, 2014, 77, 616-626.	5.7	71
27	Function and Diversification of MADS-Box Genes in Rice. Scientific World Journal, The, 2006, 6, 1923-1932.	2.1	64
28	The spatial expression patterns of DROOPING LEAF orthologs suggest a conserved function in grasses. Genes and Genetic Systems, 2009, 84, 137-146.	0.7	64
29	Altered tissue-specific expression at the Wx gene of the opaque mutants in rice. Euphytica, 1999, 105, 91-97.	1.2	62
30	Analysis of intragenic recombination at<i>wx</i>in rice: Correlation between the molecular and genetic maps within the locus. Genome, 2000, 43, 589-596.	2.0	60
31	Three <i><scp>TOB</scp>1</i>â€related <i><scp>YABBY</scp></i> genes are required to maintain proper function of the spikelet and branch meristems in rice. New Phytologist, 2017, 215, 825-839.	7.3	60
32	FON2 SPARE1 Redundantly Regulates Floral Meristem Maintenance with FLORAL ORGAN NUMBER2 in Rice. PLoS Genetics, 2009, 5, e1000693.	3.5	58
33	WUSCHEL-RELATED HOMEOBOX4 acts as a key regulator in early leaf development in rice. PLoS Genetics, 2018, 14, e1007365.	3.5	44
34	Retrotransposition of a plant SINE into the wx locus during evolution of rice. Journal of Molecular Evolution, 1994, 38, 132-137.	1.8	42
35	A Transposon, Ping, is Integrated into Intron 4 of the DROOPING LEAF Gene of Rice, Weakly Reducing its Expression and Causing a Mild Drooping Leaf Phenotype. Plant and Cell Physiology, 2008, 49, 1176-1184.	3.1	41
36	Auxin response factor family in rice.. Genes and Genetic Systems, 2001, 76, 373-380.	0.7	39

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37	Grass Flower Development. Methods in Molecular Biology, 2014, 1110, 57-84.	0.9	39
38	Classification and relationships of rice strains with AA genome by identification of transposable elements at nine loci.. Japanese Journal of Genetics, 1993, 68, 205-217.	1.0	32
39	Genetic Enhancer Analysis Reveals that FLORAL ORGAN NUMBER2 and OsMADS3 Co-operatively Regulate Maintenance and Determinacy of the Flower Meristem in Rice. Plant and Cell Physiology, 2017, 58, 893-903.	3.1	29
40	Effects of the two most common Wx alleles on different genetic backgrounds in rice. Plant Breeding, 2000, 119, 505-508.	1.9	27
41	Isolation of mutants with aberrant mitochondrial morphology from Arabidopsis thaliana. Genes and Genetic Systems, 2004, 79, 301-305.	0.7	26
42	Generation of artificial <i>drooping leaf</i> mutants by CRISPR-Cas9 technology in rice. Genes and Genetic Systems, 2015, 90, 231-235.	0.7	24
43	High-flow-rate hydroxylapatites. Analytical Biochemistry, 1985, 150, 228-234.	2.4	22
44	Starch Characteristics of the Rice Mutantdu2-2Taichung 65 Highly Affected by Environmental Temperatures During Seed Development. Cereal Chemistry, 2003, 80, 184-187.	2.2	22
45	Rice Flower Development Revisited: Regulation of Carpel Specification and Flower Meristem Determinacy. Plant and Cell Physiology, 2019, 60, 1284-1295.	3.1	22
46	Gamete Eliminator Adjacent to the wx Locus as Recealed by Pollen Analysis in Rice. Journal of Heredity, 1994, 85, 310-312.	2.4	20
47	Role of Amylose in the Maintenance of the Configuration of Rice Starch Granules. Starch/Staerke, 2003, 55, 524-528.	2.1	20
48	<i><scp>BELL</scp>1</i>â€like homeobox genes regulate inflorescence architecture and meristem maintenance in rice. Plant Journal, 2019, 98, 465-478.	5.7	20
49	Transcriptional Corepressor ASP1 and CLV-Like Signaling Regulate Meristem Maintenance in Rice. Plant Physiology, 2019, 180, 1520-1534.	4.8	20
50	Comparison of Waxy gene regulation in the endosperm and pollen in Oryza sativa L.. Genes and Genetic Systems, 2000, 75, 245-249.	0.7	18
51	A role for <i>TRIANGULAR HULL1</i> in fine-tuning spikelet morphogenesis in rice. Genes and Genetic Systems, 2014, 89, 61-69.	0.7	18
52	Analysis of intragenic recombination at <i>wx</i> in rice: Correlation between the molecular and genetic maps within the locus. Genome, 2000, 43, 589-596.	2.0	18
53	Title is missing!. Euphytica, 2002, 123, 95-100.	1.2	17
54	Antagonistic action of <i>TILLERS ABSENT1</i> and <i>FLORAL ORGAN NUMBER2</i> regulates stem cell maintenance during axillary meristem development in rice. New Phytologist, 2020, 225, 974-984.	7.3	17

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55	<i>TILLERS ABSENT1</i>, the<i>WUSCHEL</i>ortholog, is not involved in stem cell maintenance in the shoot apical meristem in rice. Plant Signaling and Behavior, 2019, 14, 1640565.	2.4	15
56	Mutations that cause amino acid substitutions at the invariant positions in homeodomain of OSH3 KNOX protein suggest artificial selection during rice domestication.. Genes and Genetic Systems, 2001, 76, 381-392.	0.7	12
57	Differences in Starch Characteristics of Rice Strains Having Different Sensitivities to Maturation Temperatures. Journal of Agronomy and Crop Science, 2004, 190, 218-221.	3.5	12
58	Anaconda, a new class of transposon belonging to the Mu superfamily, has diversified by acquiring host genes during rice evolution. Molecular Genetics and Genomics, 2005, 274, 606-15.	2.1	12
59	Flower Development in Rice. Advances in Botanical Research, 2014, 72, 221-262.	1.1	12
60	Genetic and Developmental Bases for Phenotypic Plasticity in Deepwater Rice. Journal of Heredity, 1993, 84, 201-205.	2.4	10
61	Amyloplast formation in cultured tobacco cells. III Determination of the timing of gene expression necessary for starch accumulation. Plant Cell Reports, 1999, 18, 589-594.	5.6	9
62	Formation of two florets within a single spikelet in the rice tongari-boushi1 mutant. Plant Signaling and Behavior, 2012, 7, 793-795.	2.4	9
63	Genetic analysis of rice mutants responsible for narrow leaf phenotype and reduced vein number. Genes and Genetic Systems, 2016, 91, 235-240.	0.7	9
64	Analysis of intergenic spacer regions in the nuclear rDNA of <i>Pharbitis nil</i>. Genome, 1992, 35, 92-97.	2.0	8
65	Function and Diversification of MADS-Box Genes in Rice. TSW Development & Embryology, 2006, 1, 99-108.	0.2	8
66	Common and distinct mechanisms underlying the establishment of adaxial and abaxial polarity in stamen and leaf development. Plant Signaling and Behavior, 2011, 6, 430-433.	2.4	7
67	Two-Color In Situ Hybridization: A Technique for Simultaneous Detection of Transcripts from Different Loci. Methods in Molecular Biology, 2018, 1830, 269-287.	0.9	7
68	Class I KNOX Gene <i>OSH1</i> is Indispensable for Axillary Meristem Development in Rice. Cytologia, 2019, 84, 343-346.	0.6	7
69	Cloning and structural analysis of the snap-back DNA of Pharbitis nil. Plant Molecular Biology, 1989, 12, 235-244.	3.9	6
70	Stem Cell Maintenance in the Shoot Apical Meristems and during Axillary Meristem Development. Cytologia, 2020, 85, 3-8.	0.6	6
71	A nuclear gene modifying instability of fertility restoration in cytoplasmic male sterile rice. Genetical Research, 1992, 60, 195-200.	0.9	5
72	Overexpression analysis suggests that <i>FON2-LIKE CLE PROTEIN1</i> is involved in rice leaf development. Genes and Genetic Systems, 2014, 89, 87-91.	0.7	5

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73	Characterization of a <i>half-pipe-like leaf1</i> mutant that exhibits a curled leaf phenotype. Genes and Genetic Systems, 2017, 92, 287-291.	0.7	5
74	A Rapid and Easy-handling Procedure for Isolation of DNA from Rice, Arabidopsis and Tobacco.. Plant Biotechnology, 1998, 15, 45-48.	1.0	5
75	Flower meristem maintenance by <i>TILLERS ABSENT 1</i> is essential for ovule development in rice. Development (Cambridge), 2021, 148, .	2.5	5
76	Unique repetitive sequences of 170 bp inChlorella. Plant Molecular Biology, 1986, 7, 311-317.	3.9	3
77	Isolation of High Molecular Weight Cellular DNA with a Novel Granulated Hydroxylapatite. Agricultural and Biological Chemistry, 1986, 50, 219-221.	0.3	3
78	Genome-wide expression profiling and identification of genes under the control of the DROOPING LEAF gene during midrib development in rice. Genes and Genetic Systems, 2008, 83, 237-244.	0.7	3
79	Analysis of a rice <i>fickle spikelet1</i> mutant that displays an increase in flower and spikelet organ number with inconstant expressivity. Genes and Genetic Systems, 2015, 90, 181-184.	0.7	2
80	DWARF WITH SLENDER LEAF1 encoding a histone deacetylase plays diverse roles in rice development. Plant and Cell Physiology, 2019, 61, 457-469.	3.1	2
81	CURLED LATER1 encoding the largest subunit of the Elongator complex has a unique role in leaf development and meristem function in rice. Plant Journal, 2020, 104, 351-364.	5.7	2
82	Genetic Regulation of Meristem Maintenance and Organ Specification in Rice Flower Development. Biotechnology in Agriculture and Forestry, 2008, , 177-189.	0.2	1
83	Polar patterning of the spikelet is disrupted in the <i>two opposite lemma</i> mutant in rice. Genes and Genetic Systems, 2016, 91, 193-200.	0.7	1
84	Genetic Regulation of the Amylose Synthesis of Rice.. Journal of the Japanese Society of Starch Science, 1993, 40, 195-201.	0.1	0