MarÃ- a Rosa Ponce Molet

List of Publications by Year
in descending order

61 papers	5,840 citations	126708 33 h-index	133063 59 g-index
62 all docs	62 docs citations	62 times ranked	7173 citing authors

#	Article	IF	Citations
1	The JAZ family of repressors is the missing link in jasmonate signalling. Nature, 2007, 448, 666-671.	13.7	1,974
2	The Short-Chain Alcohol Dehydrogenase ABA2 Catalyzes the Conversion of Xanthoxin to Abscisic Aldehyde[W]. Plant Cell, 2002, 14, 1833-1846.	3.1	435
3	A mutational analysis of the ABA1 gene of Arabidopsis thaliana highlights the involvement of ABA in vegetative development. Journal of Experimental Botany, 2005, 56, 2071-2083.	2.4	208
4	Both abscisic acid (ABA)-dependent and ABA-independent pathways govern the induction of NCED3, AAO3 and ABA1 in response to salt stress. Plant, Cell and Environment, 2006, 29, 2000-2008.	2.8	203
5	The UCU1 Arabidopsis Gene Encodes a SHAGGY/GSK3-like Kinase Required for Cell Expansion along the Proximodistal Axis. Developmental Biology, 2002, 242, 161-173.	0.9	174
6	Coordination of cell proliferation and cell expansion mediated by ribosomeâ€related processes in the leaves of <i>Arabidopsis thaliana</i>. Plant Journal, 2009, 59, 499-508.	2.8	162
7	Genetic Analysis of Salt-Tolerant Mutants in Arabidopsis thaliana. Genetics, 2000, 154, 421-436.	1.2	158
8	Differential contributions of ribosomal protein genes to <i>Arabidopsis thaliana</i> leaf development. Plant Journal, 2011, 65, 724-736.	2.8	147
9	Genetic Architecture of NaCl Tolerance in Arabidopsis. Plant Physiology, 2002, 130, 951-963.	2.3	143
10	<i>INCURVATA2</i> Encodes the Catalytic Subunit of DNA Polymerase Î± and Interacts with Genes Involved in Chromatin-Mediated Cellular Memory in <i>Arabidopsis thaliana</i>. Plant Cell, 2007, 19, 2822-2838.	3.1	131
11	PCR amplification of long DNA fragments. Nucleic Acids Research, 1992, 20, 623-623.	6.5	117
12	The ULTRACURVATA2 Gene of Arabidopsis Encodes an FK506-Binding Protein Involved in Auxin and Brassinosteroid Signaling. Plant Physiology, 2004, 134, 101-117.	2.3	112
13	The <scp>TRANSPLANTA</scp> collection of <scp>A</scp>rabidopsis lines: a resource for functional analysis of transcription factors based on their conditional overexpression. Plant Journal, 2014, 77, 944-953.	2.8	104
14	Genetic analysis of leaf form mutants from the Arabidopsis Information Service collection. Molecular Genetics and Genomics, 1999, 261, 725-739.	2.4	92
15	The<i>RON1/FRY1/SAL1</i>Gene Is Required for Leaf Morphogenesis and Venation Patterning in Arabidopsis. Plant Physiology, 2010, 152, 1357-1372.	2.3	91
16	Genetic Analysis of incurvata Mutants Reveals Three Independent Genetic Operations at Work in Arabidopsis Leaf Morphogenesis. Genetics, 2000, 156, 1363-1377.	1.2	91
17	High-throughput genetic mapping in Arabidopsis thaliana. Molecular Genetics and Genomics, 1999, 261, 408-415.	2.4	90
18	Mutations in the MicroRNA Complementarity Site of the INCURVATA4 Gene Perturb Meristem Function and Adaxialize Lateral Organs in Arabidopsis. Plant Physiology, 2006, 141, 607-619.	2.3	88

#	Article	IF	Citations
19	The rotunda2 mutants identify a role for the LEUNIG gene in vegetative leaf morphogenesis. Journal of Experimental Botany, 2004, 55, 1529-1539.	2.4	82
20	Arabidopsis <i>RUGOSA2</i> encodes an mTERF family member required for mitochondrion, chloroplast and leaf development. Plant Journal, 2011, 68, 738-753.	2.8	79
21	Rapid discrimination of sequences flanking and within T-DNA insertions in theArabidopsisgenome. Plant Journal, 1998, 14, 497-501.	2.8	77
22	Analysis of <i>ven3</i> and <i>ven6</i> reticulate mutants reveals the importance of arginine biosynthesis in Arabidopsis leaf development. Plant Journal, 2011, 65, 335-345.	2.8	64
23	Plant microRNAs and development. International Journal of Developmental Biology, 2005, 49, 733-744.	0.3	60
24	The HVE/CAND1 gene is required for the early patterning of leaf venation in Arabidopsis. Development (Cambridge), 2006, 133, 3755-3766.	1.2	58
25	OTCandAUL1, two convergent and overlapping genes in the nuclear genome ofArabidopsis thaliana. FEBS Letters, 1999, 461, 101-106.	1.3	52
26	Mutations in the RETICULATA gene dramatically alter internal architecture but have little effect on overall organ shape in Arabidopsis leaves. Journal of Experimental Botany, 2006, 57, 3019-3031.	2.4	52
27	Functional Redundancy and Divergence within the Arabidopsis RETICULATA-RELATED Gene Family Â Â. Plant Physiology, 2013, 162, 589-603.	2.3	50
28	Leaf phenomics: a systematic reverse genetic screen for Arabidopsis leaf mutants. Plant Journal, 2014, 79, 878-891.	2.8	46
29	A Suppressor Screen for AGO1 Degradation by the Viral F-Box P0 Protein Uncovers a Role for AGO DUF1785 in sRNA Duplex Unwinding. Plant Cell, 2018, 30, 1353-1374.	3.1	44
30	Mutation of an Arabidopsis NatB N-Alpha-Terminal Acetylation Complex Component Causes Pleiotropic Developmental Defects. PLoS ONE, 2013, 8, e80697.	1.1	42
31	The <i>ABA1</i> gene and carotenoid biosynthesis are required for late skotomorphogenic growth in <i>Arabidopsis thaliana</i>. Plant, Cell and Environment, 2008, 31, 227-234.	2.8	37
32	ROTUNDA3 function in plant development by phosphatase 2A-mediated regulation of auxin transporter recycling. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2768-2773.	3.3	37
33	Lessons from a search for leaf mutants in Arabidopsis thaliana. International Journal of Developmental Biology, 2009, 53, 1623-1634.	0.3	36
34	Whole organ, venation and epidermal cell morphological variations are correlated in the leaves of <i>Arabidopsis</i> mutants. Plant, Cell and Environment, 2011, 34, 2200-2211.	2.8	36
35	The MicroRNA Pathway Genes AGO1, HEN1 and HYL1 Participate in Leaf Proximalâ€"Distal, Venation and Stomatal Patterning in Arabidopsis. Plant and Cell Physiology, 2012, 53, 1322-1333.	1.5	35
36	PORPHOBILINOGEN DEAMINASE Deficiency Alters Vegetative and Reproductive Development and Causes Lesions in Arabidopsis. PLoS ONE, 2013, 8, e53378.	1.1	35

#	Article	IF	Citations
37	The Arabidopsis <i>phyB-9</i> Mutant Has a Second-Site Mutation in the <i>VENOSA4</i> Gene That Alters Chloroplast Size, Photosynthetic Traits, and Leaf Growth. Plant Physiology, 2018, 178, 3-6.	2.3	32
38	<i>incurvata13</i>, a Novel Allele of <i>AUXIN RESISTANT6</i>, Reveals a Specific Role for Auxin and the SCF Complex in Arabidopsis Embryogenesis, Vascular Specification, and Leaf Flatness Â Â. Plant Physiology, 2013, 161, 1303-1320.	2.3	28
39	Cell Expansion-Mediated Organ Growth Is Affected by Mutations in Three EXIGUA Genes. PLoS ONE, 2012, 7, e36500.	1.1	28
40	Multiâ€gene silencing in Arabidopsis: a collection of artificial micro<scp>RNA</scp>s targeting groups of paralogs encoding transcription factors. Plant Journal, 2014, 80, 149-160.	2.8	27
41	Loss of function of Arabidopsis microRNA-machinery genes impairs fertility, and has effects on homologous recombination and meiotic chromatin dynamics. Scientific Reports, 2017, 7, 9280.	1.6	26
42	DRACULA2, a dynamic nucleoporin with a role in the regulation of the shade avoidance syndrome in Arabidopsis. Development (Cambridge), 2016, 143, 1623-31.	1.2	25
43	The ANGULATA 7 gene encodes a DnaJâ€like zinc fingerâ€domain protein involved in chloroplast function and leaf development in Arabidopsis. Plant Journal, 2017, 89, 870-884.	2.8	25
44	Molecular characterization and phylogenetic analysis of SpBMP5-7, a new member of the TGF-beta superfamily expressed in sea urchin embryos. Molecular Biology and Evolution, 1999, 16, 634-645.	3.5	23
45	AGO1 controls arabidopsis inflorescence architecture possibly by regulating TFL1 expression. Annals of Botany, 2014, 114, 1471-1481.	1.4	23
46	Genome-wide analysis of CCHC-type zinc finger (ZCCHC) proteins in yeast, Arabidopsis, and humans. Cellular and Molecular Life Sciences, 2020, 77, 3991-4014.	2.4	23
47	Arabidopsis RIBOSOMAL RNA PROCESSING7 Is Required for 18S rRNA Maturation. Plant Cell, 2018, 30, 2855-2872.	3.1	20
48	<i>INCURVATA11</i> and <i>CUPULIFORMIS2</i> Are Redundant Genes That Encode Epigenetic Machinery Components in Arabidopsis. Plant Cell, 2018, 30, 1596-1616.	3.1	20
49	Arabidopsis TRANSCURVATA1 Encodes NUP58, a Component of the Nucleopore Central Channel. PLoS ONE, 2013, 8, e67661.	1.1	20
50	The ang3 mutation identified the ribosomal protein gene RPL5B with a role in cell expansion during organ growth. Physiologia Plantarum, 2010, 138, 91-101.	2.6	15
51	A multiplex reverse transcriptase-polymerase chain reaction method for fluorescence-based semiautomated detection of gene expression in Arabidopsis thaliana. Planta, 2000, 211, 606-608.	1.6	12
52	Arabidopsis MAS2, an Essential Gene That Encodes a Homolog of Animal NF-Îº B Activating Protein, Is Involved in 45S Ribosomal DNA Silencing. Plant Cell, 2015, 27, 1999-2015.	3.1	11
53	Next-generation forward genetic screens: using simulated data to improve the design of mapping-by-sequencing experiments in Arabidopsis. Nucleic Acids Research, 2019, 47, e140-e140.	6.5	10
54	SMALL ORGAN4 Is a Ribosome Biogenesis Factor Involved in 5.8S Ribosomal RNA Maturation. Plant Physiology, 2020, 184, 2022-2039.	2.3	10

#	Article	IF	Citations
55	A genetic screen for suppressors of a hypomorphic allele of Arabidopsis ARGONAUTE1. Scientific Reports, 2014, 4, 5533.	1.6	7
56	Arabidopsis INCURVATA2 Regulates Salicylic Acid and Abscisic Acid Signaling, and Oxidative Stress Responses. Plant and Cell Physiology, 2015, 56, pcv132.	1.5	6
57	Role ofHEMIVENATAand the Ubiquitin Pathway in Venation Pattern Formation. Plant Signaling and Behavior, 2007, 2, 258-259.	1.2	5
58	Two computer programs for the generation of problems in transmission genetics for teaching purposes. Bioinformatics, 1992, 8, 603-604.	1.8	1
59	A cornucopia of mutants for understanding plant embryo development. New Phytologist, 2020, 226, 289-291.	3.5	1
60	Visualization of Gene Expression by Fluorescent Multiplex Reverse Transcriptase-PCR Amplification. , 2007, 353, 143-152.		0
61	Missplicing suppressor alleles of Arabidopsis <i>PRE-MRNA PROCESSING FACTORÂ8</i> increase splicing fidelity by reducing the use of novel splice sites. Nucleic Acids Research, 2022, 50, 5513-5527.	6.5	0