

Manuel Martinez

List of Publications by Year in descending order

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89
papers

4,546
citations

117625

34
h-index

106344

65
g-index

89
all docs

89
docs citations

89
times ranked

4509
citing authors

#	ARTICLE	IF	CITATIONS
1	The genome of <i>Tetranychus urticae</i> reveals herbivorous pest adaptations. <i>Nature</i> , 2011, 479, 487-492.	27.8	897
2	The GAMYB protein from barley interacts with the DOF transcription factor BPBF and activates endosperm-specific genes during seed development. <i>Plant Journal</i> , 2002, 29, 453-464.	5.7	208
3	The family of DOF transcription factors: from green unicellular algae to vascular plants. <i>Molecular Genetics and Genomics</i> , 2007, 277, 379-390.	2.1	140
4	Characterization of the Entire Cystatin Gene Family in Barley and Their Target Cathepsin L-Like Cysteine-Proteases, Partners in the Hordein Mobilization during Seed Germination. <i>Plant Physiology</i> , 2009, 151, 1531-1545.	4.8	133
5	The origin and evolution of plant cystatins and their target cysteine proteinases indicate a complex functional relationship. <i>BMC Evolutionary Biology</i> , 2008, 8, 198.	3.2	129
6	The DOF protein, SAD, interacts with GAMYB in plant nuclei and activates transcription of endosperm-specific genes during barley seed development. <i>Plant Journal</i> , 2005, 42, 652-662.	5.7	127
7	Plant senescence and proteolysis: two processes with one destiny. <i>Genetics and Molecular Biology</i> , 2016, 39, 329-338.	1.3	124
8	C1A cysteine proteases and their inhibitors in plants. <i>Physiologia Plantarum</i> , 2012, 145, 85-94.	5.2	107
9	C1A cysteine protease-cystatin interactions in leaf senescence. <i>Journal of Experimental Botany</i> , 2014, 65, 3825-3833.	4.8	102
10	Carboxy terminal extended phytocystatins are bifunctional inhibitors of papain and legumain cysteine proteinases. <i>FEBS Letters</i> , 2007, 581, 2914-2918.	2.8	96
11	Gene Pyramiding of Peptidase Inhibitors Enhances Plant Resistance to the Spider Mite <i>Tetranychus urticae</i> . <i>PLoS ONE</i> , 2012, 7, e43011.	2.5	96
12	A barley cysteine-proteinase inhibitor reduces the performance of two aphid species in artificial diets and transgenic <i>Arabidopsis</i> plants. <i>Transgenic Research</i> , 2011, 20, 305-319.	2.4	91
13	Comparative phylogenetic analysis of cystatin gene families from <i>Arabidopsis</i> , rice and barley. <i>Molecular Genetics and Genomics</i> , 2005, 273, 423-432.	2.1	90
14	Tomato Whole Genome Transcriptional Response to <i>Tetranychus urticae</i> Identifies Divergence of Spider Mite-Induced Responses Between Tomato and <i>Arabidopsis</i> . <i>Molecular Plant-Microbe Interactions</i> , 2015, 28, 343-361.	2.6	90
15	Expression of a barley cystatin gene in maize enhances resistance against phytophagous mites by altering their cysteine-proteases. <i>Plant Cell Reports</i> , 2011, 30, 101-112.	5.6	83
16	The strawberry gene <i>Cyf1</i> encodes a phytocystatin with antifungal properties. <i>Journal of Experimental Botany</i> , 2005, 56, 1821-1829.	4.8	82
17	SAD: a new DOF protein from barley that activates transcription of a cathepsin B-like thiol protease gene in the aleurone of germinating seeds. <i>Plant Journal</i> , 2003, 33, 329-340.	5.7	80
18	Understanding plant defence responses against herbivore attacks: an essential first step towards the development of sustainable resistance against pests. <i>Transgenic Research</i> , 2013, 22, 697-708.	2.4	75

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19	Ternary complex formation between HvMYBS3 and other factors involved in transcriptional control in barley seeds. <i>Plant Journal</i> , 2006, 47, 269-281.	5.7	74
20	Effects of potato plants expressing a barley cystatin on the predatory bug <i>Podisus maculiventris</i> via herbivorous prey feeding on the plant. <i>Transgenic Research</i> , 2007, 16, 1-13.	2.4	74
21	Digestive proteases in bodies and faeces of the two-spotted spider mite, <i>Tetranychus urticae</i> . <i>Journal of Insect Physiology</i> , 2015, 78, 69-77.	2.0	71
22	Plant Perception and Short-Term Responses to Phytophagous Insects and Mites. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1356.	4.1	70
23	Inhibition of Plant-Pathogenic Fungi by the Barley Cystatin Hv-CPI (Gene <i>Icy</i>) Is Not Associated with Its Cysteine-Proteinase Inhibitory Properties. <i>Molecular Plant-Microbe Interactions</i> , 2003, 16, 876-883.	2.6	68
24	HvMCB1, a R1MYB transcription factor from barley with antagonistic regulatory functions during seed development and germination. <i>Plant Journal</i> , 2006, 45, 17-30.	5.7	66
25	Phytocystatins: Defense Proteins against Phytophagous Insects and Acari. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1747.	4.1	65
26	Plant protein peptidase inhibitors: an evolutionary overview based on comparative genomics. <i>BMC Genomics</i> , 2014, 15, 812.	2.8	58
27	The Ph1 and Ph2 loci play different roles in the synaptic behaviour of hexaploid wheat <i>Triticum aestivum</i> . <i>Theoretical and Applied Genetics</i> , 2001, 103, 398-405.	3.6	53
28	A cathepsin B-like cysteine protease gene from <i>Hordeum vulgare</i> (gene <i>CatB</i>) induced by GA in aleurone cells is under circadian control in leaves. <i>Journal of Experimental Botany</i> , 2003, 54, 951-959.	4.8	50
29	<i>Arabidopsis</i> Kunitz Trypsin Inhibitors in Defense Against Spider Mites. <i>Frontiers in Plant Science</i> , 2018, 9, 986.	3.6	47
30	Phylogenetically distant barley legumains have a role in both seed and vegetative tissues. <i>Journal of Experimental Botany</i> , 2013, 64, 2929-2941.	4.8	45
31	Plant Defenses Against <i>Tetranychus urticae</i> : Mind the Gaps. <i>Plants</i> , 2020, 9, 464.	3.5	43
32	Structural and functional diversity within the cystatin gene family of <i>Hordeum vulgare</i> . <i>Journal of Experimental Botany</i> , 2006, 57, 4245-4255.	4.8	42
33	MAT1, a Novel Protein Involved in the Regulation of Herbivore-Associated Signaling Pathways. <i>Frontiers in Plant Science</i> , 2017, 8, 975.	3.6	42
34	The synaptic behaviour of <i>Triticum turgidum</i> with variable doses of the Ph1 locus. <i>Theoretical and Applied Genetics</i> , 2001, 102, 751-758.	3.6	39
35	The barley cystatin gene (<i>Icy</i>) is regulated by DOF transcription factors in aleurone cells upon germination. <i>Journal of Experimental Botany</i> , 2005, 56, 547-556.	4.8	38
36	Cysteine peptidases and their inhibitors in <i>Tetranychus urticae</i> : a comparative genomic approach. <i>BMC Genomics</i> , 2012, 13, 307.	2.8	38

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37	A Developmental Switch of Gene Expression in the Barley Seed Mediated by HvVP1 (Viviparous-1) and HvGAMYB Interactions. <i>Plant Physiology</i> , 2016, 170, 2146-2158.	4.8	38
38	An Arabidopsis TIR-Lectin Two-Domain Protein Confers Defense Properties against <i>Tetranychus urticae</i> . <i>Plant Physiology</i> , 2019, 179, 1298-1314.	4.8	38
39	HvPap-1 C1A Protease and HvCPI-2 Cystatin Contribute to Barley Grain Filling and Germination. <i>Plant Physiology</i> , 2016, 170, 2511-2524.	4.8	33
40	Arabidopsis response to the spider mite <i>Tetranychus urticae</i> depends on the regulation of reactive oxygen species homeostasis. <i>Scientific Reports</i> , 2018, 8, 9432.	3.3	33
41	A cathepsin F-like peptidase involved in barley grain protein mobilization, HvPap-1, is modulated by its own propeptide and by cystatins. <i>Journal of Experimental Botany</i> , 2012, 63, 4615-4629.	4.8	32
42	Inhibitory Properties of Cysteine Protease Pro-Peptides from Barley Confer Resistance to Spider Mite Feeding. <i>PLoS ONE</i> , 2015, 10, e0128323.	2.5	32
43	Plant protein-coding gene families: emerging bioinformatics approaches. <i>Trends in Plant Science</i> , 2011, 16, 558-567.	8.8	31
44	Insights on the Proteases Involved in Barley and Wheat Grain Germination. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2087.	4.1	31
45	Vacuolar processing enzyme 4 contributes to maternal control of grain size in barley by executing programmed cell death in the pericarp. <i>New Phytologist</i> , 2018, 218, 1127-1142.	7.3	30
46	Plant Proteases: From Key Enzymes in Germination to Allies for Fighting Human Gluten-Related Disorders. <i>Frontiers in Plant Science</i> , 2019, 10, 721.	3.6	30
47	Synchronizing atomic force microscopy force mode and fluorescence microscopy in real time for immune cell stimulation and activation studies. <i>Ultramicroscopy</i> , 2016, 160, 168-181.	1.9	29
48	Repression of drought-induced cysteine-protease genes alters barley leaf structure and responses to abiotic and biotic stresses. <i>Journal of Experimental Botany</i> , 2019, 70, 2143-2155.	4.8	26
49	HvPap-1 C1A protease actively participates in barley proteolysis mediated by abiotic stresses. <i>Journal of Experimental Botany</i> , 2016, 67, 4297-4310.	4.8	24
50	Differential in vitro and in vivo effect of barley cysteine and serine protease inhibitors on phytopathogenic microorganisms. <i>Plant Physiology and Biochemistry</i> , 2011, 49, 1191-1200.	5.8	23
51	Dehydration Stress Contributes to the Enhancement of Plant Defense Response and Mite Performance on Barley. <i>Frontiers in Plant Science</i> , 2018, 9, 458.	3.6	23
52	Further insights on chromosomal pairing of autopolyploids: a triploid and tetraploids of rye. <i>Chromosoma</i> , 1995, 104, 298-307.	2.2	22
53	Synaptic behaviour of hexaploid wheat haploids with different effectiveness of the diploidizing mechanism. <i>Cytogenetic and Genome Research</i> , 2005, 109, 210-214.	1.1	22
54	Overexpression of HvIcy6 in Barley Enhances Resistance against <i>Tetranychus urticae</i> and Entails Partial Transcriptomic Reprogramming. <i>International Journal of Molecular Sciences</i> , 2018, 19, 697.	4.1	21

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55	Synaptic behaviour of the tetraploid wheat <i>Triticum timopheevii</i> . <i>Theoretical and Applied Genetics</i> , 1996, 93, 1139-1144.	3.6	20
56	Silencing barley cystatins HvCPI2 and HvCPI4 specifically modifies leaf responses to drought stress. <i>Plant, Cell and Environment</i> , 2018, 41, 1776-1790.	5.7	20
57	The Price of the Induced Defense Against Pests: A Meta-Analysis. <i>Frontiers in Plant Science</i> , 2020, 11, 615122.	3.6	20
58	Comparative transcriptomics reveals hidden issues in the plant response to arthropod herbivores. <i>Journal of Integrative Plant Biology</i> , 2021, 63, 312-326.	8.5	19
59	HvPap-1 C1A Protease Participates Differentially in the Barley Response to a Pathogen and an Herbivore. <i>Frontiers in Plant Science</i> , 2017, 8, 1585.	3.6	18
60	Clan CD of cysteine peptidases as an example of evolutionary divergences in related protein families across plant clades. <i>Gene</i> , 2010, 449, 59-69.	2.2	15
61	Structural Basis for Specificity of Propeptide-Enzyme Interaction in Barley C1A Cysteine Peptidases. <i>PLoS ONE</i> , 2012, 7, e37234.	2.5	15
62	Comparative analysis of immunoglobulin polymerase chain reaction and flow cytometry in fine needle aspiration biopsy differential diagnosis of non-Hodgkin B-cell lymphoid malignancies. <i>Diagnostic Cytopathology</i> , 2009, 37, 647-653.	1.0	14
63	Host plant use by two distinct lineages of the tomato red spider mite, <i>Tetranychus evansi</i> , differing in their distribution range. <i>Journal of Pest Science</i> , 2018, 91, 169-179.	3.7	14
64	A single primer pair immunoglobulin polymerase chain reaction assay as a useful tool in fine-needle aspiration biopsy differential diagnosis of lymphoid malignancies. <i>Cancer</i> , 2003, 99, 180-185.	4.1	11
65	Saving time maintaining reliability: a new method for quantification of <i>Tetranychus urticae</i> damage in <i>Arabidopsis</i> whole rosettes. <i>BMC Plant Biology</i> , 2020, 20, 397.	3.6	11
66	Plant C1A Cysteine Peptidases in Germination and Senescence. , 2013, , 1852-1858.		10
67	Editorial for Special Issue "Molecular Advances in Wheat and Barley". <i>International Journal of Molecular Sciences</i> , 2019, 20, 3501.	4.1	10
68	<i>Leishmania infantum</i> : Antiproliferative effect of recombinant plant cystatins on promastigotes and intracellular amastigotes estimated by direct counting and real-time PCR. <i>Experimental Parasitology</i> , 2009, 123, 341-346.	1.2	9
69	Disentangling transcriptional responses in plant defense against arthropod herbivores. <i>Scientific Reports</i> , 2021, 11, 12996.	3.3	9
70	Computational Tools for Genomic Studies in Plants. <i>Current Genomics</i> , 2016, 17, 509-514.	1.6	9
71	Hydroxynitrile lyase defends <i>Arabidopsis</i> against <i>Tetranychus urticae</i> . <i>Plant Physiology</i> , 2022, 189, 2244-2258.	4.8	9
72	FROM PLANT GENOMES TO PROTEIN FAMILIES: COMPUTATIONAL TOOLS. <i>Computational and Structural Biotechnology Journal</i> , 2013, 8, e201307001.	4.1	7

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73	The co-chaperone HOP3 participates in jasmonic acid signaling by regulating CORONATINE-INSENSITIVE 1 activity. <i>Plant Physiology</i> , 2021, 187, 1679-1689.	4.8	7
74	Plant Defenses Against Pests Driven by a Bidirectional Promoter. <i>Frontiers in Plant Science</i> , 2019, 10, 930.	3.6	6
75	The synaptic behaviour of the wild forms of <i>Triticum turgidum</i> and <i>T. timopheevii</i> . <i>Genome</i> , 2001, 44, 517-522.	2.0	5
76	Senescence-Associated Genes in Response to Abiotic/Biotic Stresses. <i>Progress in Botany Fortschritte Der Botanik</i> , 2017, , 89-109.	0.3	5
77	Differential response of silencing <i>HvIcy2</i> barley plants against <i>Magnaporthe oryzae</i> infection and light deprivation. <i>BMC Plant Biology</i> , 2018, 18, 337.	3.6	5
78	Spider mite egg extract modifies <i>Arabidopsis</i> response to future infestations. <i>Scientific Reports</i> , 2021, 11, 17692.	3.3	5
79	Plant Kinases in the Perception and Signaling Networks Associated With Arthropod Herbivory. <i>Frontiers in Plant Science</i> , 2022, 13, .	3.6	5
80	Synaptic abnormalities in spread nuclei of <i>Secale</i> . I. Inbred lines. <i>Genome</i> , 1995, 38, 764-771.	2.0	4
81	Repression of barley cathepsins, <i>HvPap-19</i> and <i>HvPap-1</i> , differentially alters grain composition and delays germination. <i>Journal of Experimental Botany</i> , 2021, 72, 3474-3485.	4.8	4
82	The synaptic behaviour of the wild forms of <i>Triticum turgidum</i> and <i>T. timopheevii</i> . <i>Genome</i> , 2001, 44, 517-522.	2.0	3
83	Factores de riesgo y protecci3n del estr3s traum3tico secundario en los cuidados intensivos: un estudio exploratorio en un hospital terciario de Madrid. <i>Medicina Intensiva</i> , 2020, 44, 420-428.	0.7	2
84	Synaptic abnormalities in spread nuclei of <i>Secale</i> . II. <i>Secale vavilovii</i> . <i>Genome</i> , 1995, 38, 772-779.	2.0	1
85	Differences in the synaptic pattern in two autotetraploid cultivars of rye with different quadrivalent frequencies at metaphase I. <i>Genome</i> , 1999, 42, 662-667.	2.0	1
86	Insights into the molecular evolution of peptidase inhibitors in arthropods. <i>PLoS ONE</i> , 2017, 12, e0187643.	2.5	1
87	Responses to Phytophagous Arthropods. <i>Biotechnology in Agriculture and Forestry</i> , 2014, , 237-248.	0.2	1
88	Co-evolution of Genes for Specification in Arthropod-Plant Interactions: A Bioinformatic Analysis in Plant and Arthropod Genomes. , 2012, , 1-14.		0
89	GAMYB and BPBF transcriptional factors in the control of gene expression during development of barley endosperm.. , 2003, , 77-84.		0