

Jose J. Sanchez Serrano

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41
papers

6,065
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41
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ext. citations

7.7
avg, IF

5.18
L-index

#	Paper	IF	Citations
41	JASMONATE-INSENSITIVE1 encodes a MYC transcription factor essential to discriminate between different jasmonate-regulated defense responses in Arabidopsis. <i>Plant Cell</i> , 2004 , 16, 1938-50	11.6	925
40	ETHYLENE RESPONSE FACTOR1 integrates signals from ethylene and jasmonate pathways in plant defense. <i>Plant Cell</i> , 2003 , 15, 165-78	11.6	913
39	ABA is an essential signal for plant resistance to pathogens affecting JA biosynthesis and the activation of defenses in Arabidopsis. <i>Plant Cell</i> , 2007 , 19, 1665-81	11.6	621
38	Abscisic acid is involved in the wound-induced expression of the proteinase inhibitor II gene in potato and tomato. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989 , 86, 9851-5	11.5	259
37	Hydroperoxide lyase depletion in transgenic potato plants leads to an increase in aphid performance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 8139-44	11.5	218
36	VPEgamma exhibits a caspase-like activity that contributes to defense against pathogens. <i>Current Biology</i> , 2004 , 14, 1897-906	6.3	216
35	Jasmonic acid-dependent and -independent signaling pathways control wound-induced gene activation in Arabidopsis thaliana. <i>Plant Physiology</i> , 1997 , 115, 817-26	6.6	191
34	Cross-talk between wound signalling pathways determines local versus systemic gene expression in Arabidopsis thaliana. <i>Plant Journal</i> , 1999 , 20, 135-142	6.9	180
33	Interactions Between Signaling Compounds Involved in Plant Defense. <i>Journal of Plant Growth Regulation</i> , 2003 , 22, 82-98	4.7	177
32	Characterization of three potato lipoxygenases with distinct enzymatic activities and different organ-specific and wound-regulated expression patterns. <i>Journal of Biological Chemistry</i> , 1996 , 271, 21012-9	5.4	162
31	Bridging the gap between plant and mammalian polyamine catabolism: a novel peroxisomal polyamine oxidase responsible for a full back-conversion pathway in Arabidopsis. <i>Plant Physiology</i> , 2008 , 147, 1845-57	6.6	160
30	Antisense-mediated depletion of a potato lipoxygenase reduces wound induction of proteinase inhibitors and increases weight gain of insect pests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 1146-51	11.5	147
29	DNA from Agrobacterium rhizogenes is transferred to and expressed in axenic hairy root plant tissues. <i>Molecular Genetics and Genomics</i> , 1982 , 186, 16-22		138
28	Reversible protein phosphorylation regulates jasmonic acid-dependent and -independent wound signal transduction pathways in Arabidopsis thaliana. <i>Plant Journal</i> , 1998 , 13, 153-65	6.9	134
27	Oxylipin profiling reveals the preferential stimulation of the 9-lipoxygenase pathway in elicitor-treated potato cells. <i>Journal of Biological Chemistry</i> , 2001 , 276, 6267-73	5.4	125
26	Systemic induction of proteinase-inhibitor-II gene expression in potato plants by wounding. <i>Planta</i> , 1988 , 174, 84-9	4.7	124
25	Divergent functions of VTI12 and VTI11 in trafficking to storage and lytic vacuoles in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 3645-50	11.5	117

24	Negative control of BAK1 by protein phosphatase 2A during plant innate immunity. <i>EMBO Journal</i> , 2014 , 33, 2069-79	13	102
23	Jasmonic acid-dependent and -independent wound signal transduction pathways are differentially regulated by Ca ²⁺ /calmodulin in <i>Arabidopsis thaliana</i> . <i>Molecular Genetics and Genomics</i> , 1998 , 258, 412-9		98
22	Primary structure of a proteinase inhibitor II gene from potato (<i>Solanum tuberosum</i>). <i>Nucleic Acids Research</i> , 1986 , 14, 5641-50	20.1	90
21	Increasing omega-3 desaturase expression in tomato results in altered aroma profile and enhanced resistance to cold stress. <i>Plant Physiology</i> , 2010 , 153, 655-65	6.6	87
20	A protein phosphatase 2A catalytic subunit is a negative regulator of abscisic acid signalling. <i>Plant Journal</i> , 2007 , 51, 763-78	6.9	85
19	Abscisic acid and jasmonic acid activate wound-inducible genes in potato through separate, organ-specific signal transduction pathways. <i>Plant Journal</i> , 1997 , 11, 773-82	6.9	82
18	Nucleotide sequence of proteinase inhibitor II encoding cDNA of potato (<i>Solanum tuberosum</i>) and its mode of expression. <i>Molecular Genetics and Genomics</i> , 1986 , 203, 15-20		81
17	Differential distribution of the lipoxygenase pathway enzymes within potato chloroplasts. <i>Journal of Experimental Botany</i> , 2007 , 58, 555-68	7	78
16	Lipoxygenase H1 gene silencing reveals a specific role in supplying fatty acid hydroperoxides for aliphatic aldehyde production. <i>Journal of Biological Chemistry</i> , 2002 , 277, 416-23	5.4	70
15	Targeted expression of human serum albumin to potato tubers. <i>Transgenic Research</i> , 2002 , 11, 337-46	3.3	69
14	Silencing of OPR3 in tomato reveals the role of OPDA in callose deposition during the activation of defense responses against <i>Botrytis cinerea</i> . <i>Plant Journal</i> , 2015 , 81, 304-15	6.9	63
13	Gene expression during tuber development in potato plants. <i>FEBS Letters</i> , 1990 , 268, 334-8	3.8	59
12	Molecular biology of jasmonic acid biosynthesis in plants. <i>Plant Physiology and Biochemistry</i> , 1999 , 37, 373-380	5.4	53
11	Specialized functions of the PP2A subfamily II catalytic subunits PP2A-C3 and PP2A-C4 in the distribution of auxin fluxes and development in <i>Arabidopsis</i> . <i>Plant Journal</i> , 2013 , 73, 862-72	6.9	52
10	Nuclear proteins binding to a cauliflower mosaic virus 35S truncated promoter. <i>Molecular Genetics and Genomics</i> , 1989 , 217, 209-14		33
9	SEIPIN Proteins Mediate Lipid Droplet Biogenesis to Promote Pollen Transmission and Reduce Seed Dormancy. <i>Plant Physiology</i> , 2018 , 176, 1531-1546	6.6	32
8	A molecular switch for initiating cell differentiation in <i>Arabidopsis</i> . <i>Current Biology</i> , 2011 , 21, 999-1008	6.3	28
7	Antisense-mediated depletion of potato leaf omega3 fatty acid desaturase lowers linolenic acid content and reduces gene activation in response to wounding. <i>FEBS Journal</i> , 1999 , 262, 283-90		23

6	Physiological response of Colorado potato beetle and beet armyworm larvae to depletion of wound-inducible proteinase inhibitors in transgenic potato plants. <i>Journal of Insect Physiology</i> , 2001 , 47, 1291-1300	2.4	19
5	Jasmonate-dependent modifications of the pectin matrix during potato development function as a defense mechanism targeted by <i>Dickeya dadantii</i> virulence factors. <i>Plant Journal</i> , 2014 , 77, 418-29	6.9	17
4	RIMA-Dependent Nuclear Accumulation of IYO Triggers Auxin-Irreversible Cell Differentiation in Arabidopsis. <i>Plant Cell</i> , 2017 , 29, 575-588	11.6	14
3	Identification of potato nuclear proteins binding to the distal promoter region of the proteinase inhibitor II gene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990 , 87, 7205-9	11.5	13
2	MTV proteins unveil ER- and microtubule-associated compartments in the plant vacuolar trafficking pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 9884-9895	11.5	9
1	Disease Symptoms on Plants by Non-Phytopathogenic Bacteria. <i>Journal of Phytopathology</i> , 1982 , 104, 309-315	1.8	1