Jorge P Muschietti

List of Publications by Year
in descending order

50 papers	2,733 citations	236925 25 h-index	206112 48 g-index
66 all docs	66 docs citations	66 times ranked	3091 citing authors

#	Article	IF	Citations
1	Keeping up with the RALFs: how these small peptides control pollenâ€“pistil interactions in Arabidopsis. New Phytologist, 2021, 229, 14-18.	7.3	12
2	Prolineâ€rich extensinâ€like receptor kinases PERK5 and PERK12 are involved in pollen tube growth. FEBS Letters, 2021, 595, 2593-2607.	2.8	14
3	The role of P-type IIA and P-type IIB Ca2+-ATPases in plant development and growth. Journal of Experimental Botany, 2020, 71, 1239-1248.	4.8	39
4	Imaging and Analysis of the Content of Callose, Pectin, and Cellulose in the Cell Wall of Arabidopsis Pollen Tubes Grown In Vitro. Methods in Molecular Biology, 2020, 2160, 233-242.	0.9	4
5	The MED30 subunit of mediator complex is essential for early plant development and promotes flowering in <i>Arabidopsis thaliana</i>. Development (Cambridge), 2019, 146, .	2.5	10
6	<i>Arabidopsis</i> pollen extensins LRX are required for cell wall integrity during pollen tube growth. FEBS Letters, 2018, 592, 233-243.	2.8	75
7	How many receptor-like kinases are required to operate a pollen tube. Current Opinion in Plant Biology, 2018, 41, 73-82.	7.1	32
8	Calcium dynamics in tomato pollen tubes using the Yellow Cameleon 3.6 sensor. Plant Reproduction, 2018, 31, 159-169.	2.2	9
9	Molecular link between auxin and ROS-mediated polar growth. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5289-5294.	7.1	201
10	Co-immunoprecipitation of Plant Receptor Kinases. Methods in Molecular Biology, 2017, 1621, 109-112.	0.9	0
11	RALF4/19 peptides interact with LRX proteins to control pollen tube growth in <i>Arabidopsis</i>. Science, 2017, 358, 1600-1603.	12.6	239
12	Two Arabidopsis late pollen transcripts are detected in cytoplasmic granules. Plant Direct, 2017, 1, e00012.	1.9	16
13	Expression of Plant Receptor Kinases in Yeast. Methods in Molecular Biology, 2017, 1621, 21-27.	0.9	2
14	Pollen Aquaporins: The Solute Factor. Frontiers in Plant Science, 2016, 7, 1659.	3.6	11
15	Pollen-Specific Aquaporins NIP4;1 and NIP4;2 Are Required for Pollen Development and Pollination in <i>Arabidopsis thaliana</i>. Plant Cell, 2016, 28, 1053-1077.	6.6	78
16	Pollen aquaporins: What are they there for?. Plant Signaling and Behavior, 2016, 11, e1217375.	2.4	14
17	An update on cell surface proteins containing extensin-motifs. Journal of Experimental Botany, 2016, 67, 477-487.	4.8	68
18	Optimized Method for Growing In Vitro Arabidopsis thaliana Pollen Tubes. Methods in Molecular Biology, 2015, 1242, 41-47.	0.9	2

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19	A proteome map of a quadruple photoreceptor mutant sustains its severe photosynthetic deficient phenotype. Journal of Plant Physiology, 2015, 185, 13-23.	3.5	13
20	Imaging of Calcium Dynamics in Pollen Tube Cytoplasm. Methods in Molecular Biology, 2015, 1242, 49-57.	0.9	3
21	Alfalfa snakin-1 prevents fungal colonization and probably coevolved with rhizobia. BMC Plant Biology, 2014, 14, 248.	3.6	51
22	Hormonal networks involved in apical hook development in darkness and their response to light. Frontiers in Plant Science, 2014, 5, 52.	3.6	93
23	Overexpression of the Tomato Pollen Receptor Kinase LePRK1 Rewires Pollen Tube Growth to a Blebbing Mode. Plant Cell, 2014, 26, 3538-3555.	6.6	32
24	Prediction of Aquaporin Function by Integrating Evolutionary and Functional Analyses. Journal of Membrane Biology, 2014, 247, 107-125.	2.1	58
25	Cajal Bodies Are Developmentally Regulated during Pollen Development and Pollen Tube Growth in Arabidopsis thaliana. Molecular Plant, 2013, 6, 1355-1357.	8.3	8
26	cry1 and GPA1 signaling genetically interact in hook opening and anthocyanin synthesis in Arabidopsis. Plant Molecular Biology, 2012, 80, 315-324.	3.9	24
27	New insight into the evolution of aquaporins from flowering plants and vertebrates: Orthologous identification and functional transfer is possible. Gene, 2012, 503, 165-176.	2.2	64
28	Oligomerization studies show that the kinase domain of the tomato pollen receptor kinase LePRK2 is necessary for interaction with LePRK1. Plant Physiology and Biochemistry, 2012, 53, 40-45.	5.8	5
29	Mutations in Two Putative Phosphorylation Motifs in the Tomato Pollen Receptor Kinase LePRK2 Show Antagonistic Effects on Pollen Tube Length. Journal of Biological Chemistry, 2011, 286, 4882-4891.	3.4	16
30	STIL, a peculiar molecule from styles, specifically dephosphorylates the pollen receptor kinase LePRK2 and stimulates pollen tube growth in vitro. BMC Plant Biology, 2010, 10, 33.	3.6	28
31	TIP5;1 is an aquaporin specifically targeted to pollen mitochondria and is probably involved in nitrogen remobilization in Arabidopsis thaliana. Plant Journal, 2010, 64, 1038-1047.	5.7	82
32	Abscisic acid (ABA) receptors: light at the end of the tunnel. F1000 Biology Reports, 2010, 2, .	4.0	9
33	<i>AtTIP1;3</i> and <i>AtTIP5;1</i>, the only highly expressed Arabidopsis pollenâ€specific aquaporins, transport water and urea. FEBS Letters, 2008, 582, 4077-4082.	2.8	101
34	The Pollen Receptor Kinase LePRK2 Mediates Growth-Promoting Signals and Positively Regulates Pollen Germination and Tube Growth Â. Plant Physiology, 2008, 148, 1368-1379.	4.8	78
35	Kinase partner protein interacts with the LePRK1 and LePRK2 receptor kinases and plays a role in polarized pollen tube growth. Plant Journal, 2005, 42, 492-503.	5.7	150
36	Concerted regulation of nuclear and cytoplasmic activities of SR proteins by AKT. Nature Structural and Molecular Biology, 2005, 12, 1037-1044.	8.2	211

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37	Phytochrome Control of the Arabidopsis Transcriptome Anticipates Seedling Exposure to Light. Plant Cell, 2005, 17, 2507-2516.	6.6	53
38	Finding Unexpected Patterns in Microarray Data. Plant Physiology, 2003, 133, 1717-1725.	4.8	13
39	The receptor kinases LePRK1 and LePRK2 associate in pollen and when expressed in yeast, but dissociate in the presence of style extract. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 6860-6865.	7.1	64
40	A Cysteine-Rich Extracellular Protein, LAT52, Interacts with the Extracellular Domain of the Pollen Receptor Kinase LePRK2[W]. Plant Cell, 2002, 14, 2277-2287.	6.6	185
41	Biochemical characterization of transducin, the G-protein of bovine retina. Biochemical Education, 1998, 26, 77-81.	0.1	0
42	Pollen Tube Localization Implies a Role in Pollenâ€“Pistil Interactions for the Tomato Receptor-like Protein Kinases LePRK1 and LePRK2. Plant Cell, 1998, 10, 319-330.	6.6	146
43	Pollen Tube Localization Implies a Role in Pollen-Pistil Interactions for the Tomato Receptor-Like Protein Kinases LePRK1 and LePRK2. Plant Cell, 1998, 10, 319.	6.6	75
44	Purification and characterization of a soluble nucleoside diphosphate kinase in Trypanosoma cruzi. Molecular and Biochemical Parasitology, 1995, 70, 119-129.	1.1	17
45	Molecular biology of male gametogenesis. Euphytica, 1994, 79, 245-250.	1.2	6
46	LAT52 protein is essential for tomato pollen development: pollen expressing antisense LAT52 RNA hydrates and germinates abnormally and cannot achieve fertilization. Plant Journal, 1994, 6, 321-338.	5.7	209
47	Adenylate cyclase activity in Cyanobacteria: activation by Ca2+-calmodulin and a calmodulin-like activity. Biochimica Et Biophysica Acta - Molecular Cell Research, 1990, 1055, 75-81.	4.1	20
48	Bicarbonate dependence of cAMP accumulation induced by phorbol esters in hamster spermatozoa. Biochimica Et Biophysica Acta - Molecular Cell Research, 1990, 1054, 231-236.	4.1	79
49	Reconstitution of a light-stimulated adenylate cyclase from retina and Neurospora crassa preparations. Characterization of the heterologous systems using normal and degenerative retinas. FEBS Journal, 1989, 185, 205-210.	0.2	7
50	Sex steroid binding protein from Bufo arenarum: Further characterization. Comparative Biochemistry and Physiology A, Comparative Physiology, 1986, 85, 401-405.	0.6	5