Jorge P Muschietti

List of Publications by Year
in descending order

50	2,733	236925	206112
papers	citations	25 h-index	48 g-index

66	66	66	3091
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	RALF4/19 peptides interact with LRX proteins to control pollen tube growth in Arabidopsis. Science, 2017, 358, 1600-1603.	12.6	239
2	Concerted regulation of nuclear and cytoplasmic activities of SR proteins by AKT. Nature Structural and Molecular Biology, 2005, 12, 1037-1044.	8.2	211
3	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
4	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
5	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
6	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
7	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
8	AtTIP1;3 and AtTIP5;1, the only highly expressed Arabidopsis pollenâ€specific aquaporins, transport water and urea. FEBS Letters, 2008, 582, 4077-4082.	2.8	101
9	Hormonal networks involved in apical hook development in darkness and their response to light. Frontiers in Plant Science, 2014, 5, 52.	3.6	93
10	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
11	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
12	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
13	Pollen-Specific Aquaporins NIP4;1 and NIP4;2 Are Required for Pollen Development and Pollination in Arabidopsis thaliana. Plant Cell, 2016, 28, 1053-1077.	6.6	78
14	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
15	Arabidopsis pollen extensins LRX are required for cell wall integrity during pollen tube growth. FEBS Letters, 2018, 592, 233-243.	2.8	75
16	An update on cell surface proteins containing extensin-motifs. Journal of Experimental Botany, 2016, 67, 477-487.	4.8	68
17	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
18	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

#	Article	IF	Citations
19	Prediction of Aquaporin Function by Integrating Evolutionary and Functional Analyses. Journal of Membrane Biology, 2014, 247, 107-125.	2.1	58
20	Phytochrome Control of the Arabidopsis Transcriptome Anticipates Seedling Exposure to Light. Plant Cell, 2005, 17, 2507-2516.	6.6	53
21	Alfalfa snakin-1 prevents fungal colonization and probably coevolved with rhizobia. BMC Plant Biology, 2014, 14, 248.	3.6	51
22	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
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	How many receptor-like kinases are required to operate a pollen tube. Current Opinion in Plant Biology, 2018, 41, 73-82.	7.1	32
25	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
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	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
28	Purification and characterization of a soluble nucleoside diphosphate kinase in Trypanosoma cruzi. Molecular and Biochemical Parasitology, 1995, 70, 119-129.	1.1	17
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	Two Arabidopsis late pollen transcripts are detected in cytoplasmic granules. Plant Direct, 2017, 1, e00012.	1.9	16
31	Pollen aquaporins: What are they there for?. Plant Signaling and Behavior, 2016, 11, e1217375.	2.4	14
32	Prolineâ€rich extensinâ€like receptor kinases PERK5 and PERK12 are involved in pollen tube growth. FEBS Letters, 2021, 595, 2593-2607.	2.8	14
33	Finding Unexpected Patterns in Microarray Data. Plant Physiology, 2003, 133, 1717-1725.	4.8	13
34	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
35	Keeping up with the RALFs: how these small peptides control pollenâ€“pistil interactions in Arabidopsis. New Phytologist, 2021, 229, 14-18.	7.3	12
36	Pollen Aquaporins: The Solute Factor. Frontiers in Plant Science, 2016, 7, 1659.	3.6	11

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37	The MED30 subunit of mediator complex is essential for early plant development and promotes flowering in Arabidopsis thaliana. Development (Cambridge), 2019, 146, .	2.5	10
38	Abscisic acid (ABA) receptors: light at the end of the tunnel. F1000 Biology Reports, 2010, 2, .	4.0	9
39	Calcium dynamics in tomato pollen tubes using the Yellow Cameleon 3.6 sensor. Plant Reproduction, 2018, 31, 159-169.	2.2	9
40	Cajal Bodies Are Developmentally Regulated during Pollen Development and Pollen Tube Growth in Arabidopsis thaliana. Molecular Plant, 2013, 6, 1355-1357.	8.3	8
41	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
42	Molecular biology of male gametogenesis. Euphytica, 1994, 79, 245-250.	1.2	6
43	Sex steroid binding protein from Bufo arenarum: Further characterization. Comparative Biochemistry and Physiology A, Comparative Physiology, 1986, 85, 401-405.	0.6	5
44	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
45	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
46	Imaging of Calcium Dynamics in Pollen Tube Cytoplasm. Methods in Molecular Biology, 2015, 1242, 49-57.	0.9	3
47	Optimized Method for Growing In Vitro Arabidopsis thaliana Pollen Tubes. Methods in Molecular Biology, 2015, 1242, 41-47.	0.9	2
48	Expression of Plant Receptor Kinases in Yeast. Methods in Molecular Biology, 2017, 1621, 21-27.	0.9	2
49	Biochemical characterization of transducin, the G-protein of bovine retina. Biochemical Education, 1998, 26, 77-81.	0.1	0
50	Co-immunoprecipitation of Plant Receptor Kinases. Methods in Molecular Biology, 2017, 1621, 109-112.	0.9	0