Filomena A Pettolino

List of Publications by Citations

46 papers	2,617 citations	26 h-index	48 g-index
48 ext. papers	3,056 ext. citations	6 avg, IF	4.6 L-index

#	Paper	IF	Citations
46	Determining the polysaccharide composition of plant cell walls. *Nature Protocols*, **2012**, 7, 1590-607	18.8	402
45	High-throughput mapping of cell-wall polymers within and between plants using novel microarrays. *Plant Journal*, **2007**, 50, 1118-28	6.9	241
44	A barley cellulose synthase-like CSLH gene mediates (1,3;1,4)-beta-D-glucan synthesis in transgenic Arabidopsis. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 5996-6001	11.5	203
43	The charophycean green algae provide insights into the early origins of plant cell walls. *Plant Journal*, **2011**, 68, 201-11	6.9	172
42	Arabinogalactan proteins are required for apical cell extension in the moss Physcomitrella patens. *Plant Cell*, **2005**, 17, 3051-65	11.6	162
41	Plant cell walls: the skeleton of the plant world. *Functional Plant Biology*, **2010**, 37, 357	2.7	134
40	Mixed-linkage (1-->3),(1-->4)-beta-D-glucan is not unique to the Poales and is an abundant component of Equisetum arvense cell walls. *Plant Journal*, **2008**, 54, 510-21	6.9	133
39	Over-expression of specific HvCslF cellulose synthase-like genes in transgenic barley increases the levels of cell wall (1,3;1,4)-□-glucans and alters their fine structure. *Plant Biotechnology Journal*, **2011**, 9, 117-35	11.6	131
38	Cell wall integrity is linked to mitochondria and phospholipid homeostasis in Candida albicans through the activity of the post-transcriptional regulator Ccr4-Pop2. *Molecular Microbiology*, **2011**, 79, 968-89	4.1	95
37	Distribution of cell wall components in Sphagnum hyaline cells and in liverwort and hornwort elaters. *Planta*, **2004**, 219, 1023-35	4.7	64
36	A (1-->4)-beta-mannan-specific monoclonal antibody and its use in the immunocytochemical location of galactomannans. *Planta*, **2001**, 214, 235-42	4.7	59
35	Reducing haziness in white wine by overexpression of Saccharomyces cerevisiae genes YOL155c and YDR055w. *Applied Microbiology and Biotechnology*, **2007**, 73, 1363-76	5.7	51
34	GbEXPATR, a species-specific expansin, enhances cotton fibre elongation through cell wall restructuring. *Plant Biotechnology Journal*, **2016**, 14, 951-63	11.6	50
33	Polysaccharide composition of the fruit juice of Morinda citrifolia (Noni). *Phytochemistry*, **2006**, 67, 1271-5	4	49
32	The transcriptional regulator LEUNIG_HOMOLOG regulates mucilage release from the Arabidopsis testa. *Plant Physiology*, **2011**, 156, 46-60	6.6	46
31	Mitochondrial sorting and assembly machinery subunit Sam37 in Candida albicans: insight into the roles of mitochondria in fitness, cell wall integrity, and virulence. *Eukaryotic Cell*, **2012**, 11, 532-44		46
30	Structure of cellulose microfibrils in mature cotton fibres. *Carbohydrate Polymers*, **2017**, 175, 450-463	10.3	44

29	Pectic polysaccharides from mature orange (Citrus sinensis) fruit albedo cell walls: Sequential extraction and chemical characterization. *Carbohydrate Polymers*, **2011**, 84, 484-494	10.3	44
28	Genetic and DNA methylation changes in cotton (Gossypium) genotypes and tissues. *PLoS ONE*, **2014**, 9, e86049	3.7	43
27	Pattern of deposition of cell wall polysaccharides and transcript abundance of related cell wall synthesis genes during differentiation in barley endosperm. *Plant Physiology*, **2012**, 159, 655-70	6.6	38
26	The Endoplasmic Reticulum-Mitochondrion Tether ERMES Orchestrates Fungal Immune Evasion, Illuminating Inflammasome Responses to Hyphal Signals. *MSphere*, **2016**, 1,	5	31
25	Hyphal cell walls from the plant pathogen Rhynchosporium secalis contain (1,3/1,6)-beta-D-glucans, galacto- and rhamnomannans, (1,3;1,4)-beta-D-glucans and chitin. *FEBS Journal*, **2009**, 276, 3698-709	5.7	29
24	Effect of the native polysaccharide of cashew-nut tree gum exudate on murine peritoneal macrophage modulatory activities. *Carbohydrate Polymers*, **2015**, 125, 241-8	10.3	28
23	A customized gene expression microarray reveals that the brittle stem phenotype fs2 of barley is attributable to a retroelement in the HvCesA4 cellulose synthase gene. *Plant Physiology*, **2010**, 153, 1716-28	6.6	28
22	Characterization of the structure, expression and function of Pinus radiata D. Don arabinogalactan-proteins. *Planta*, **2007**, 226, 1131-42	4.7	28
21	Tissue and cell-specific transcriptomes in cotton reveal the subtleties of gene regulation underlying the diversity of plant secondary cell walls. *BMC Genomics*, **2017**, 18, 539	4.5	26
20	Characterization of cell wall polysaccharides from the medicinal plant Panax notoginseng. *Phytochemistry*, **2005**, 66, 1067-76	4	22
19	Cashew-nut tree exudate gum: Identification of an arabinogalactan-protein as a constituent of the gum and use on the stimulation of somatic embryogenesis. *Plant Science*, **2007**, 173, 468-477	5.3	20
18	Zebularine treatment is associated with deletion of FT-B1 leading to an increase in spikelet number in bread wheat. *Plant, Cell and Environment*, **2018**, 41, 1346-1360	8.4	17
17	Glycan profiling of plant cell wall polymers using microarrays. *Journal of Visualized Experiments*, **2012**, e4238	1.6	17
16	Hpf2 glycan structure is critical for protection against protein haze formation in white wine. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 3308-15	5.7	17
15	Mutations to LmIFRD affect cell wall integrity, development and pathogenicity of the ascomycete Leptosphaeria maculans. *Fungal Genetics and Biology*, **2009**, 46, 695-706	3.9	16
14	Oil Accumulation in Transgenic Potato Tubers Alters Starch Quality and Nutritional Profile. *Frontiers in Plant Science*, **2017**, 8, 554	6.2	15
13	An exo-Β(1->3)-D-galactanase from Streptomyces sp. provides insights into type II arabinogalactan structure. *Carbohydrate Research*, **2012**, 352, 70-81	2.9	15
12	Repeat-length variation in a wheat cellulose synthase-like gene is associated with altered tiller number and stem cell wall composition. *Journal of Experimental Botany*, **2017**, 68, 1519-1529	7	14

11	The Cell Wall Polymers of the Charophycean Green Alga Chara corallina: Immunobinding and Biochemical Screening. *International Journal of Plant Sciences*, **2010**, 171, 345-361	2.6	13
10	Cell wall modifications in maize pulvini in response to gravitational stress. *Plant Physiology*, **2011**, 156, 2155-71	6.6	13
9	Immunoactive polysaccharide-rich fractions from Panax notoginseng. *Planta Medica*, **2006**, 72, 1193-9	3.1	13
8	Characterisation of secreted polysaccharides and (glyco)proteins from suspension cultures of Pyrus communis. *Phytochemistry*, **2008**, 69, 873-81	4	11
7	Changes in cell wall polysaccharide composition, gene transcription and alternative splicing in germinating barley embryos. *Journal of Plant Physiology*, **2016**, 191, 127-39	3.6	10
6	Effects of Yariv dyes, arabinogalactan-protein binding reagents, on the growth and viability of Brazilian pine suspension culture cells. *Trees - Structure and Function*, **2010**, 24, 391-398	2.6	7
5	Arabinogalactan-proteins from cell suspension cultures of Araucaria angustifolia. *Phytochemistry*, **2010**, 71, 1400-9	4	7
4	Preparation of a new chromogenic substrate to assay for beta-galactanases that hydrolyse type II arabino-3,6-galactans. *Carbohydrate Research*, **2009**, 344, 1941-6	2.9	5
3	Application of a mannan-specific antibody for the detection of galactomannans in foods. *Food Hydrocolloids*, **2002**, 16, 551-556	10.6	5
2	The importance of anatomy and physiology in plant metabolomics. *Topics in Current Genetics*, **2007**, 253-278		3
1	The cell wall polysaccharides of a photosynthetic relative of apicomplexans, Chromera velia. *Journal of Phycology*, **2021**, 57, 1805-1809	3	