

# J Paul Knox

## List of Publications by Citations

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200  
papers

15,551  
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68  
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119  
g-index

204  
ext. papers

17,307  
ext. citations

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6.49  
L-index

#	Paper	IF	Citations
200	Pectin: cell biology and prospects for functional analysis. <i>Plant Molecular Biology</i> , <b>2001</b> , 47, 9-27	4.6	771
199	Pectin: new insights into an old polymer are starting to gel. <i>Trends in Food Science and Technology</i> , <b>2006</b> , 17, 97-104	15.3	595
198	Pectin esterification is spatially regulated both within cell walls and between developing tissues of root apices. <i>Planta</i> , <b>1990</b> , 181, 512-21	4.7	476
197	Modulation of the degree and pattern of methyl-esterification of pectic homogalacturonan in plant cell walls. Implications for pectin methyl esterase action, matrix properties, and cell adhesion. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 19404-13	5.4	439
196	Localization of Pectic Galactan in Tomato Cell Walls Using a Monoclonal Antibody Specific to (1->4)-[beta]-D-Galactan. <i>Plant Physiology</i> , <b>1997</b> , 113, 1405-1412	6.6	368
195	Monoclonal antibodies to plant cell wall xylans and arabinoxylans. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2005</b> , 53, 543-6	3.4	364
194	Generation of monoclonal antibody specific to (1->5)-alpha-L-arabinan. <i>Carbohydrate Research</i> , <b>1998</b> , 308, 149-52	2.9	312
193	An extended set of monoclonal antibodies to pectic homogalacturonan. <i>Carbohydrate Research</i> , <b>2009</b> , 344, 1858-62	2.9	293
192	Pectic homogalacturonan masks abundant sets of xyloglucan epitopes in plant cell walls. <i>BMC Plant Biology</i> , <b>2008</b> , 8, 60	5.3	291
191	Developmentally regulated epitopes of cell surface arabinogalactan proteins and their relation to root tissue pattern formation. <i>Plant Journal</i> , <b>1991</b> , 1, 317-326	6.9	291
190	Singlet oxygen and plants. <i>Phytochemistry</i> , <b>1985</b> , 24, 889-896	4	276
189	Synthetic methyl hexagalacturonate hapten inhibitors of anti-homogalacturonan monoclonal antibodies LM7, JIM5 and JIM7. <i>Carbohydrate Research</i> , <b>2003</b> , 338, 1797-800	2.9	242
188	High-throughput mapping of cell-wall polymers within and between plants using novel microarrays. <i>Plant Journal</i> , <b>2007</b> , 50, 1118-28	6.9	241
187	Intercellular adhesion and cell separation in plants. <i>Plant, Cell and Environment</i> , <b>2003</b> , 26, 977-989	8.4	241
186	Characterization of carbohydrate structural features recognized by anti-arabinogalactan-protein monoclonal antibodies. <i>Glycobiology</i> , <b>1996</b> , 6, 131-9	5.8	230
185	Advances in understanding the molecular basis of plant cell wall polysaccharide recognition by carbohydrate-binding modules. <i>Current Opinion in Structural Biology</i> , <b>2013</b> , 23, 669-77	8.1	216
184	Proteomic analysis of the Arabidopsis thaliana cell wall. <i>Electrophoresis</i> , <b>2002</b> , 23, 1754-65	3.6	214

183	A role for arabinogalactan-proteins in plant cell expansion: evidence from studies on the interaction of beta-glucosyl Yariv reagent with seedlings of <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , <b>1996</b> , 9, 919-25	6.9	202
182	Common components of the infection thread matrix and the intercellular space identified by immunocytochemical analysis of pea nodules and uninfected roots. <i>EMBO Journal</i> , <b>1989</b> , 8, 335-341	13	193
181	Understanding the biological rationale for the diversity of cellulose-directed carbohydrate-binding modules in prokaryotic enzymes. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 29321-9	5.4	192
180	A family of abundant plasma membrane-associated glycoproteins related to the arabinogalactan proteins is unique to flowering plants. <i>Journal of Cell Biology</i> , <b>1989</b> , 108, 1967-77	7.3	192
179	Carbohydrate-binding modules promote the enzymatic deconstruction of intact plant cell walls by targeting and proximity effects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 15293-8	11.5	177
178	Analysis of pectic epitopes recognised by hybridoma and phage display monoclonal antibodies using defined oligosaccharides, polysaccharides, and enzymatic degradation. <i>Carbohydrate Research</i> , <b>2000</b> , 327, 309-20	2.9	176
177	The use of antibodies to study the architecture and developmental regulation of plant cell walls. <i>International Review of Cytology</i> , <b>1997</b> , 171, 79-120		175
176	Restricted access of proteins to mannan polysaccharides in intact plant cell walls. <i>Plant Journal</i> , <b>2010</b> , 64, 191-203	6.9	172
175	Revealing the structural and functional diversity of plant cell walls. <i>Current Opinion in Plant Biology</i> , <b>2008</b> , 11, 308-13	9.9	171
174	Immunochemical comparison of membrane-associated and secreted arabinogalactan-proteins in rice and carrot. <i>Planta</i> , <b>1996</b> , 198, 452-459	4.7	169
173	Versatile high resolution oligosaccharide microarrays for plant glycobiology and cell wall research. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 39429-38	5.4	168
172	Sugar-coated microarrays: a novel slide surface for the high-throughput analysis of glycans. <i>Proteomics</i> , <b>2002</b> , 2, 1666-71	4.8	166
171	Arabinogalactan proteins are required for apical cell extension in the moss <i>Physcomitrella patens</i> . <i>Plant Cell</i> , <b>2005</b> , 17, 3051-65	11.6	162
170	Temporal and spatial regulation of pectic (1-->4)-beta-D-galactan in cell walls of developing pea cotyledons: implications for mechanical properties. <i>Plant Journal</i> , <b>2000</b> , 22, 105-13	6.9	161
169	ABA promotes quiescence of the quiescent centre and suppresses stem cell differentiation in the <i>Arabidopsis</i> primary root meristem. <i>Plant Journal</i> , <b>2010</b> , 64, 764-74	6.9	148
168	Side chains of pectic polysaccharides are regulated in relation to cell proliferation and cell differentiation. <i>Plant Journal</i> , <b>1999</b> , 20, 619-28	6.9	141
167	Localization of cell wall proteins in relation to the developmental anatomy of the carrot root apex. <i>Plant Journal</i> , <b>1994</b> , 5, 237-246	6.9	141
166	High-throughput screening of monoclonal antibodies against plant cell wall glycans by hierarchical clustering of their carbohydrate microarray binding profiles. <i>Glycoconjugate Journal</i> , <b>2008</b> , 25, 37-48	3	138

165	Loss-of-function mutation of REDUCED WALL ACETYLATION2 in Arabidopsis leads to reduced cell wall acetylation and increased resistance to Botrytis cinerea. <i>Plant Physiology</i> , <b>2011</b> , 155, 1068-78	6.6	132
164	The extracellular matrix in higher plants. 4. Developmentally regulated proteoglycans and glycoproteins of the plant cell surface. <i>FASEB Journal</i> , <b>1995</b> , 9, 1004-12	0.9	129
163	In-situ analysis of pectic polysaccharides in seed mucilage and at the root surface of Arabidopsis thaliana. <i>Planta</i> , <b>2001</b> , 213, 37-44	4.7	126
162	Cell wall pectic (1-->4)-beta-d-galactan marks the acceleration of cell elongation in the Arabidopsis seedling root meristem. <i>Plant Journal</i> , <b>2003</b> , 33, 447-54	6.9	120
161	Novel cell wall architecture of isoxaben-habituated Arabidopsis suspension-cultured cells: global transcript profiling and cellular analysis. <i>Plant Journal</i> , <b>2004</b> , 40, 260-75	6.9	116
160	Altered middle lamella homogalacturonan and disrupted deposition of (1-->5)-alpha-L-arabinan in the pericarp of Cnr, a ripening mutant of tomato. <i>Plant Physiology</i> , <b>2001</b> , 126, 210-21	6.6	115
159	Developmental complexity of arabinan polysaccharides and their processing in plant cell walls. <i>Plant Journal</i> , <b>2009</b> , 59, 413-25	6.9	111
158	Cell wall biology: perspectives from cell wall imaging. <i>Molecular Plant</i> , <b>2011</b> , 4, 212-9	14.4	110
157	Comparative analysis of crystallinity changes in cellulose I polymers using ATR-FTIR, X-ray diffraction, and carbohydrate-binding module probes. <i>Biomacromolecules</i> , <b>2011</b> , 12, 4121-6	6.9	109
156	Differential recognition of plant cell walls by microbial xylan-specific carbohydrate-binding modules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 4765-70	11.5	109
155	Cellulose and pectin localization in roots of mycorrhizal Allium porrum: labelling continuity between host cell wall and interfacial material. <i>Planta</i> , <b>1990</b> , 180, 537-47	4.7	107
154	Cell wall antibodies without immunization: generation and use of de-esterified homogalacturonan block-specific antibodies from a naive phage display library. <i>Plant Journal</i> , <b>1999</b> , 18, 57-65	6.9	101
153	Cell adhesion, cell separation and plant morphogenesis. <i>Plant Journal</i> , <b>1992</b> , 2, 137-141	6.9	99
152	Patterns of expression of the JIM4 arabinogalactan-protein epitope in cell cultures and during somatic embryogenesis in Daucus carota L. <i>Planta</i> , <b>1990</b> , 180, 285-92	4.7	99
151	Glycoside hydrolase carbohydrate-binding modules as molecular probes for the analysis of plant cell wall polymers. <i>Analytical Biochemistry</i> , <b>2004</b> , 326, 49-54	3.1	96
150	Involvement of diamine oxidase and peroxidase in insolubilization of the extracellular matrix: implications for pea nodule initiation by Rhizobium leguminosarum. <i>Molecular Plant-Microbe Interactions</i> , <b>2000</b> , 13, 413-20	3.6	96
149	A xylogalacturonan epitope is specifically associated with plant cell detachment. <i>Planta</i> , <b>2004</b> , 218, 673-81	4.7	94
148	Localization of cell wall polysaccharides in normal and compression wood of radiata pine: relationships with lignification and microfibril orientation. <i>Plant Physiology</i> , <b>2012</b> , 158, 642-53	6.6	93

147	Spatial regulation of pectic polysaccharides in relation to pit fields in cell walls of tomato fruit pericarp. <i>Plant Physiology</i> , <b>2000</b> , 122, 775-81	6.6	93
146	An epitope of rice threonine- and hydroxyproline-rich glycoprotein is common to cell wall and hydrophobic plasma-membrane glycoproteins. <i>Planta</i> , <b>1995</b> , 196, 510-22	4.7	93
145	Cell walls of developing wheat starchy endosperm: comparison of composition and RNA-Seq transcriptome. <i>Plant Physiology</i> , <b>2012</b> , 158, 612-27	6.6	91
144	Evidence that family 35 carbohydrate binding modules display conserved specificity but divergent function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 3065-70	11.5	89
143	The TOR pathway modulates the structure of cell walls in Arabidopsis. <i>Plant Cell</i> , <b>2010</b> , 22, 1898-908	11.6	85
142	A Synthetic Glycan Microarray Enables Epitope Mapping of Plant Cell Wall Glycan-Directed Antibodies. <i>Plant Physiology</i> , <b>2017</b> , 175, 1094-1104	6.6	80
141	Making and using antibody probes to study plant cell walls. <i>Plant Physiology and Biochemistry</i> , <b>2000</b> , 38, 27-36	5.4	79
140	Isolation and activity of the photodynamic pigment hypericin. <i>Plant, Cell and Environment</i> , <b>1985</b> , 8, 19-258.4		79
139	Diversity in the distribution of polysaccharide and glycoprotein epitopes in the cell walls of bryophytes: new evidence for the multiple evolution of water-conducting cells. <i>New Phytologist</i> , <b>2002</b> , 156, 491-508	9.8	76
138	QUASIMODO1 is expressed in vascular tissue of Arabidopsis thaliana inflorescence stems, and affects homogalacturonan and xylan biosynthesis. <i>Planta</i> , <b>2005</b> , 222, 613-22	4.7	76
137	Cell wall evolution and diversity. <i>Frontiers in Plant Science</i> , <b>2012</b> , 3, 152	6.2	75
136	Stage-specific responses of embryogenic carrot cell suspension cultures to arabinogalactan protein-binding $\beta$ -glucosyl Yariv reagent. <i>Planta</i> , <b>1998</b> , 205, 32-38	4.7	74
135	The cooperative activities of CSLD2, CSLD3, and CSLD5 are required for normal Arabidopsis development. <i>Molecular Plant</i> , <b>2011</b> , 4, 1024-37	14.4	73
134	Distribution of cell-wall xylans in bryophytes and tracheophytes: new insights into basal interrelationships of land plants. <i>New Phytologist</i> , <b>2005</b> , 168, 231-40	9.8	72
133	Stomatal Function Requires Pectin De-methyl-esterification of the Guard Cell Wall. <i>Current Biology</i> , <b>2016</b> , 26, 2899-2906	6.3	70
132	Enzymatic treatments reveal differential capacities for xylan recognition and degradation in primary and secondary plant cell walls. <i>Plant Journal</i> , <b>2009</b> , 58, 413-22	6.9	68
131	Cell wall microstructure analysis implicates hemicellulose polysaccharides in cell adhesion in tomato fruit pericarp parenchyma. <i>Molecular Plant</i> , <b>2009</b> , 2, 910-21	14.4	67
130	CsAGP1, a gibberellin-responsive gene from cucumber hypocotyls, encodes a classical arabinogalactan protein and is involved in stem elongation. <i>Plant Physiology</i> , <b>2003</b> , 131, 1450-9	6.6	65

129	Occurrence of cell surface arabinogalactan-protein and extensin epitopes in relation to pericycle and vascular tissue development in the root apex of four species. <i>Planta</i> , <b>1998</b> , 204, 252-259	4-7	62
128	A cortical band of gelatinous fibers causes the coiling of redvine tendrils: a model based upon cytochemical and immunocytochemical studies. <i>Planta</i> , <b>2007</b> , 225, 485-98	4-7	61
127	Altered cell wall disassembly during ripening of Cnr tomato fruit: implications for cell adhesion and fruit softening. <i>Planta</i> , <b>2002</b> , 215, 440-7	4-7	61
126	Regulation of pectic polysaccharide domains in relation to cell development and cell properties in the pea testa. <i>Journal of Experimental Botany</i> , <b>2002</b> , 53, 707-13	7	59
125	ARAD proteins associated with pectic Arabinan biosynthesis form complexes when transiently overexpressed in planta. <i>Planta</i> , <b>2012</b> , 236, 115-28	4-7	56
124	Functional analysis of folate polyglutamylation and its essential role in plant metabolism and development. <i>Plant Journal</i> , <b>2010</b> , 64, 267-79	6-9	56
123	Targeted modification of homogalacturonan by transgenic expression of a fungal polygalacturonase alters plant growth. <i>Plant Physiology</i> , <b>2004</b> , 135, 1294-304	6.6	55
122	A role for arabinogalactan proteins in gibberellin-induced alpha-amylase production in barley aleurone cells. <i>Plant Journal</i> , <b>2002</b> , 29, 733-41	6.9	54
121	Distribution of pectic epitopes in cell walls of the sugar beet root. <i>Planta</i> , <b>2005</b> , 222, 355-71	4-7	54
120	Characterization of CRISPR Mutants Targeting Genes Modulating Pectin Degradation in Ripening Tomato. <i>Plant Physiology</i> , <b>2019</b> , 179, 544-557	6.6	52
119	Distinct cell wall architectures in seed endosperms in representatives of the Brassicaceae and Solanaceae. <i>Plant Physiology</i> , <b>2012</b> , 160, 1551-66	6.6	50
118	Expression of Extracellular Glycoproteins in the Uninfected Cells of Developing Pea Nodule Tissue. <i>Molecular Plant-Microbe Interactions</i> , <b>1991</b> , 4, 563	3.6	50
117	In situ analysis of cell wall polymers associated with phloem fibre cells in stems of hemp, <i>Cannabis sativa</i> L. <i>Planta</i> , <b>2008</b> , 228, 1-13	4-7	46
116	Molecular probes for the plant cell surface. <i>Protoplasma</i> , <b>1992</b> , 167, 1-9	3-4	46
115	Apical Dominance in <i>Phaseolus vulgaris</i> L.. <i>Journal of Experimental Botany</i> , <b>1984</b> , 35, 239-244	7	46
114	Promotion of testa rupture during garden cress germination involves seed compartment-specific expression and activity of pectin methylesterases. <i>Plant Physiology</i> , <b>2015</b> , 167, 200-15	6.6	44
113	Immunolocalization of $\beta(1\rightarrow4)$ and $\beta(1\rightarrow6)$ -D-galactan epitopes in the cell wall and Golgi stacks of developing flax root tissues. <i>Protoplasma</i> , <b>1998</b> , 203, 26-34	3-4	44
112	Monoclonal antibodies indicate low-abundance links between heteroxylan and other glycans of plant cell walls. <i>Planta</i> , <b>2015</b> , 242, 1321-34	4-7	43

111	LRX Proteins Play a Crucial Role in Pollen Grain and Pollen Tube Cell Wall Development. <i>Plant Physiology</i> , <b>2018</b> , 176, 1981-1992	6.6	43
110	Analysis of the distribution of copper amine oxidase in cell walls of legume seedlings. <i>Planta</i> , <b>2001</b> , 214, 37-45	4.7	42
109	Immunolocalization of LM2 arabinogalactan protein epitope associated with endomembranes of plant cells. <i>Protoplasma</i> , <b>2000</b> , 212, 186-196	3.4	42
108	Photodynamic damage to plant leaf tissue by rose bengal. <i>Plant Science Letters</i> , <b>1984</b> , 37, 3-7		42
107	Xyloglucan is released by plants and promotes soil particle aggregation. <i>New Phytologist</i> , <b>2018</b> , 217, 1128-1136	9.8	42
106	Epitope detection chromatography: a method to dissect the structural heterogeneity and inter-connections of plant cell-wall matrix glycans. <i>Plant Journal</i> , <b>2014</b> , 78, 715-22	6.9	41
105	Complexity of the <i>Ruminococcus flavefaciens</i> cellulosome reflects an expansion in glycan recognition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 7136-41	11.5	40
104	Monoclonal antibodies directed to fucoidan preparations from brown algae. <i>PLoS ONE</i> , <b>2015</b> , 10, e0118366	3.6	40
103	Monoclonal antibodies, carbohydrate-binding modules, and the detection of polysaccharides in plant cell walls. <i>Methods in Molecular Biology</i> , <b>2011</b> , 715, 103-13	1.4	40
102	Recognition of xyloglucan by the crystalline cellulose-binding site of a family 3a carbohydrate-binding module. <i>FEBS Letters</i> , <b>2015</b> , 589, 2297-303	3.8	39
101	Cell wall pectic arabinans influence the mechanical properties of <i>Arabidopsis thaliana</i> inflorescence stems and their response to mechanical stress. <i>Plant and Cell Physiology</i> , <b>2013</b> , 54, 1278-88	4.9	39
100	Correlations between axial stiffness and microstructure of a species of bamboo. <i>Royal Society Open Science</i> , <b>2017</b> , 4, 160412	3.3	39
99	Branched Pectic Galactan in Phloem-Sieve-Element Cell Walls: Implications for Cell Mechanics. <i>Plant Physiology</i> , <b>2018</b> , 176, 1547-1558	6.6	39
98	Use of monoclonal antibodies to separate the enantiomers of abscisic acid. <i>Analytical Biochemistry</i> , <b>1986</b> , 155, 92-4	3.1	38
97	Understanding how the complex molecular architecture of mannan-degrading hydrolases contributes to plant cell wall degradation. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 2002-12	5.4	36
96	Immunogold localization of plant surface arabinogalactan-proteins using glycerol liquid substitution and scanning electron microscopy. <i>Journal of Microscopy</i> , <b>1999</b> , 193, 150-7	1.9	36
95	Sequential cell wall transformations in response to the induction of a pedicel abscission event in <i>Euphorbia pulcherrima</i> (poinsettia). <i>Plant Journal</i> , <b>2008</b> , 54, 993-1003	6.9	35
94	A monoclonal antibody to feruloylated-(1-->4)-beta-D-galactan. <i>Planta</i> , <b>2004</b> , 219, 1036-41	4.7	35

93	Disentangling pectic homogalacturonan and rhamnogalacturonan-I polysaccharides: Evidence for sub-populations in fruit parenchyma systems. <i>Food Chemistry</i> , <b>2018</b> , 246, 275-285	8.5	35
92	Preparation and characterization of monoclonal antibodies which recognise different gibberellin epitopes. <i>Planta</i> , <b>1987</b> , 170, 86-91	4.7	34
91	Elicitors and defense gene induction in plants with altered lignin compositions. <i>New Phytologist</i> , <b>2018</b> , 219, 1235-1251	9.8	34
90	Detection of $\beta$ -1-4-galactan in compression wood of Sitka spruce [ <i>Picea sitchensis</i> (Bong.) Carrière] by immunofluorescence. <i>Holzforchung</i> , <b>2007</b> , 61, 311-316	2	33
89	Pectin: cell biology and prospects for functional analysis <b>2001</b> , 9-27		33
88	Comparative in situ analyses of cell wall matrix polysaccharide dynamics in developing rice and wheat grain. <i>Planta</i> , <b>2015</b> , 241, 669-85	4.7	32
87	Roles and regulation of plant cell walls surrounding plasmodesmata. <i>Current Opinion in Plant Biology</i> , <b>2014</b> , 22, 93-100	9.9	32
86	Family 46 Carbohydrate-binding Modules Contribute to the Enzymatic Hydrolysis of Xyloglucan and $\beta$ -1,3-1,4-Glucans through Distinct Mechanisms. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 10572-86	5.4	31
85	Multi-scale spatial heterogeneity of pectic rhamnogalacturonan I (RG-I) structural features in tobacco seed endosperm cell walls. <i>Plant Journal</i> , <b>2013</b> , 75, 1018-27	6.9	31
84	The photodynamic action of eosin, a singlet-oxygen generator : Some effects on leaf tissue of <i>Pisum sativum</i> L. <i>Planta</i> , <b>1985</b> , 164, 22-9	4.7	31
83	Identification of quantitative trait loci affecting hemicellulose characteristics based on cell wall composition in a wild and cultivated rice species. <i>Molecular Plant</i> , <b>2012</b> , 5, 162-75	14.4	30
82	Modulating in vitro bone cell and macrophage behavior by immobilized enzymatically tailored pectins. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 86, 597-606	5.4	30
81	Immunoprofiling of pectic polysaccharides. <i>Analytical Biochemistry</i> , <b>1999</b> , 268, 143-6	3.1	30
80	The monoclonal antibody JIM5 indicates patterns of pectin deposition in relation to pit fields at the plasma-membrane-face of tomato pericarp cell walls. <i>Protoplasma</i> , <b>1995</b> , 188, 133-137	3.4	30
79	ARABIDOPSIS DEHISCENCE ZONE POLYGALACTURONASE 1 (ADPG1) releases latent defense signals in stems with reduced lignin content. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 3281-3290	11.5	29
78	Understanding how noncatalytic carbohydrate binding modules can display specificity for xyloglucan. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 4799-809	5.4	29
77	Heterogeneity and glycan masking of cell wall microstructures in the stems of <i>Miscanthus x giganteus</i> , and its parents <i>M. sinensis</i> and <i>M. sacchariflorus</i> . <i>PLoS ONE</i> , <b>2013</b> , 8, e82114	3.7	29
76	Syncytia formed by adult female <i>Heterodera schachtii</i> in <i>Arabidopsis thaliana</i> roots have a distinct cell wall molecular architecture. <i>New Phytologist</i> , <b>2012</b> , 196, 238-246	9.8	28



75	Investigations into the occurrence of plant cell surface epitopes in exudate gums. <i>Carbohydrate Polymers</i> , <b>1994</b> , 24, 281-286	10.3	28
74	Promiscuous, non-catalytic, tandem carbohydrate-binding modules modulate the cell-wall structure and development of transgenic tobacco ( <i>Nicotiana tabacum</i> ) plants. <i>Journal of Plant Research</i> , <b>2007</b> , 120, 605-17	2.6	27
73	Arabinogalactan proteins in embryogenic and non-embryogenic callus cultures of <i>Euphorbia pulcherrima</i> . <i>Physiologia Plantarum</i> , <b>2000</b> , 108, 180-187	4.6	27
72	Sticky mucilages and exudates of plants: putative microenvironmental design elements with biotechnological value. <i>New Phytologist</i> , <b>2020</b> , 225, 1461-1469	9.8	27
71	Antibody-based screening of cell wall matrix glycans in ferns reveals taxon, tissue and cell-type specific distribution patterns. <i>BMC Plant Biology</i> , <b>2015</b> , 15, 56	5.3	26
70	Low Sugar Is Not Always Good: Impact of Specific O-Glycan Defects on Tip Growth in Arabidopsis. <i>Plant Physiology</i> , <b>2015</b> , 168, 808-13	6.6	26
69	Enzymatically-tailored pectins differentially influence the morphology, adhesion, cell cycle progression and survival of fibroblasts. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2008</b> , 1780, 995-1003	4.003	26
68	Multi-omics analysis identifies genes mediating the extension of cell walls in the Arabidopsis thaliana root elongation zone. <i>Frontiers in Cell and Developmental Biology</i> , <b>2015</b> , 3, 10	5.7	25
67	The Deconstruction of Pectic Rhamnogalacturonan I Unmasks the Occurrence of a Novel Arabinogalactan Oligosaccharide Epitope. <i>Plant and Cell Physiology</i> , <b>2015</b> , 56, 2181-96	4.9	24
66	Electron-energy-loss spectroscopic imaging of calcium and nitrogen in the cell walls of apple fruits. <i>Planta</i> , <b>1999</b> , 208, 438-443	4.7	24
65	The photodynamic action of eosin, a singlet-oxygen generator : The inhibition of photosynthetic electron transport. <i>Planta</i> , <b>1985</b> , 164, 30-4	4.7	24
64	Analysis of the physical properties of developing cotton fibres. <i>European Polymer Journal</i> , <b>2014</b> , 51, 57-66	6.2	23
63	Ginseng root water-extracted pectic polysaccharides originate from secretory cavities. <i>Planta</i> , <b>2011</b> , 234, 487-99	4.7	23
62	Arabinogalactan-protein and pectin epitopes in relation to an extracellular matrix surface network and somatic embryogenesis and callogenesis in <i>Trifolium nigrescens</i> Viv.. <i>Plant Cell, Tissue and Organ Culture</i> , <b>2013</b> , 115, 35-44	2.7	22
61	Identification of novel cell surface epitopes using a leaf epidermal-strip assay system. <i>Planta</i> , <b>1995</b> , 196, 266	4.7	22
60	Photosensitisers from plants. <i>Pest Management Science</i> , <b>1986</b> , 17, 579-586		22
59	Characterization of the LM5 pectic galactan epitope with synthetic analogues of E1,4-d-galactotetraose. <i>Carbohydrate Research</i> , <b>2016</b> , 436, 36-40	2.9	22
58	An extensin-rich matrix lines the carinal canals in <i>Equisetum ramosissimum</i> , which may function as water-conducting channels. <i>Annals of Botany</i> , <b>2011</b> , 108, 307-19	4.1	21

57	Host-specific signatures of the cell wall changes induced by the plant parasitic nematode, <i>Meloidogyne incognita</i> . <i>Scientific Reports</i> , <b>2018</b> , 8, 17302	4.9	21
56	Dynamics of cell wall assembly during early embryogenesis in the brown alga <i>Fucus</i> . <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 6089-6100	7	20
55	Ultrastructure and composition of cell wall appositions in the roots of <i>Asplenium</i> (Polypodiales). <i>Micron</i> , <b>2011</b> , 42, 863-70	2.3	19
54	Up against the wall: arabinogalactan-protein dynamics at cell surfaces. <i>New Phytologist</i> , <b>2006</b> , 169, 443-53	5.8	19
53	Intriguing, complex and everywhere: getting to grips with arabinogalactan-proteins. <i>Trends in Plant Science</i> , <b>1999</b> , 4, 123-125	13.1	19
52	Pectin Methylsterases Modulate Plant Homogalacturonan Status in Defenses against the Aphid. <i>Plant Cell</i> , <b>2019</b> , 31, 1913-1929	11.6	18
51	Heteromannan and Heteroxyylan Cell Wall Polysaccharides Display Different Dynamics During the Elongation and Secondary Cell Wall Deposition Phases of Cotton Fiber Cell Development. <i>Plant and Cell Physiology</i> , <b>2015</b> , 56, 1786-97	4.9	18
50	ABA signalling modulates the detection of the LM6 arabinan cell wall epitope at the surface of <i>Arabidopsis thaliana</i> seedling root apices. <i>New Phytologist</i> , <b>2011</b> , 190, 618-26	9.8	18
49	Reliable scale-up of membrane protein over-expression by bacterial auto-induction: from microwell plates to pilot scale fermentations. <i>Molecular Membrane Biology</i> , <b>2008</b> , 25, 588-98	3.4	18
48	Re-engineering of the PAM1 phage display monoclonal antibody to produce a soluble, versatile anti-homogalacturonan scFv. <i>Plant Science</i> , <b>2005</b> , 169, 1090-1095	5.3	18
47	Arabinogalactan protein-rich cell walls, paramural deposits and ergastic globules define the hyaline bodies of rhinanthoid Orobanchaceae haustoria. <i>Annals of Botany</i> , <b>2014</b> , 114, 1359-73	4.1	17
46	Analysis of crystallinity changes in cellulose II polymers using carbohydrate-binding modules. <i>Carbohydrate Polymers</i> , <b>2012</b> , 89, 213-21	10.3	17
45	Non-lignified helical cell wall thickenings in root cortical cells of Aspleniaceae (Polypodiales): histology and taxonomical significance. <i>Annals of Botany</i> , <b>2011</b> , 107, 195-207	4.1	17
44	Intercellular pectic protuberances in <i>Asplenium</i> : new data on their composition and origin. <i>Annals of Botany</i> , <b>2007</b> , 100, 1165-73	4.1	17
43	Isolation and characterisation of the homogalacturonan from type II cell walls of the commelinoid monocot wheat using HF-solvolytic. <i>Carbohydrate Research</i> , <b>2003</b> , 338, 423-31	2.9	17
42	The Gsp-1 genes encode the wheat arabinogalactan peptide. <i>Journal of Cereal Science</i> , <b>2017</b> , 74, 155-164	5.8	16
41	The Complex Cell Wall Composition of Syncytia Induced by Plant Parasitic Cyst Nematodes Reflects Both Function and Host Plant. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 1087	6.2	16
40	The role of cell wall-based defences in the early restriction of non-pathogenic hrp mutant bacteria in <i>Arabidopsis</i> . <i>Phytochemistry</i> , <b>2015</b> , 112, 139-50	4	15

39	Extraction, texture analysis and polysaccharide epitope mapping data of sequential extracts of strawberry, apple, tomato and aubergine fruit parenchyma. <i>Data in Brief</i> , <b>2018</b> , 17, 314-320	1.2	15
38	The monoclonal antibody JIM19 modulates abscisic acid action in barley aleurone protoplasts. <i>Planta</i> , <b>1995</b> , 196, 271-276	4.7	15
37	Elucidating the role of polygalacturonase genes in strawberry fruit softening. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 7103-7117	7	15
36	Cell Wall Polymer Composition and Spatial Distribution in Ripe Banana and Mango Fruit: Implications for Cell Adhesion and Texture Perception. <i>Frontiers in Plant Science</i> , <b>2019</b> , 10, 858	6.2	14
35	<i>Physcomitrella patens</i> : A moss system for the study of plant cell walls. <i>Plant Biosystems</i> , <b>2005</b> , 139, 16-19.6	12.6	14
34	Cereal root exudates contain highly structurally complex polysaccharides with soil-binding properties. <i>Plant Journal</i> , <b>2020</b> , 103, 1666-1678	6.9	13
33	The chemical identity of intervessel pit membranes in Acer challenges hydrogel control of xylem hydraulic conductivity. <i>AoB PLANTS</i> , <b>2016</b> , 8,	2.9	13
32	Fingerprinting complex pectins by chromatographic separation combined with ELISA detection. <i>Carbohydrate Research</i> , <b>2009</b> , 344, 1808-17	2.9	13
31	Mapping the walls of the kingdom: the view from the horsetails. <i>New Phytologist</i> , <b>2008</b> , 179, 1-3	9.8	13
30	Pectins and Pectinases <b>2009</b> ,		13
29	A quantitative method for the high throughput screening for the soil adhesion properties of plant and microbial polysaccharides and exudates. <i>Plant and Soil</i> , <b>2018</b> , 428, 57-65	4.2	12
28	Resin embedding, sectioning, and immunocytochemical analyses of plant cell walls in hard tissues. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1080, 41-52	1.4	12
27	Arabinogalactan proteins occur in the free-living cyanobacterium genus Nostoc and in plant-Nostoc symbioses. <i>Molecular Plant-Microbe Interactions</i> , <b>2012</b> , 25, 1338-49	3.6	12
26	Carbohydrate antigens and lectin receptors of the plasma membrane of carrot cells. <i>Protoplasma</i> , <b>1989</b> , 152, 123-129	3.4	12
25	In situ detection of cell wall polysaccharides in sitka spruce ( <i>Picea sitchensis</i> (Bong.) Carr.) wood tissue. <i>BioResources</i> , <b>2007</b> , 2, 284-295	1.3	12
24	In situ detection of cellulose with carbohydrate-binding modules. <i>Methods in Enzymology</i> , <b>2012</b> , 510, 233-45	1.7	11
23	Monoclonal antibodies to 13-deoxy-gibberellins. <i>Plant Physiology</i> , <b>1988</b> , 88, 959-60	6.6	11
22	[(1,4)-Galactan remodelling in Arabidopsis cell walls affects the xyloglucan structure during elongation. <i>Planta</i> , <b>2019</b> , 249, 351-362	4.7	11

21	Developmental features of cotton fibre middle lamellae in relation to cell adhesion and cell detachment in cultivars with distinct fibre qualities. <i>BMC Plant Biology</i> , <b>2017</b> , 17, 69	5.3	8
20	Craterostigma plantagineum cell wall composition is remodelled during desiccation and the glycine-rich protein CpGRP1 interacts with pectins through clustered arginines. <i>Plant Journal</i> , <b>2019</b> , 100, 661-676	6.9	8
19	Non-cellulosic polysaccharides from cotton fibre are differently impacted by textile processing. <i>PLoS ONE</i> , <b>2014</b> , 9, e115150	3.7	8
18	Plant Cell Wall Biology: Polysaccharides in Architectural and Developmental Contexts <b>2018</b> , 343-366		8
17	Pectic Polysaccharides and Expanding Cell Walls <b>2006</b> , 139-158		7
16	Differential metabolism of pectic galactan in tomato and strawberry fruit: detection of the LM26 branched galactan epitope in ripe strawberry fruit. <i>Physiologia Plantarum</i> , <b>2018</b> , 164, 95-105	4.6	7
15	Efficient preparation of Arabidopsis pollen tubes for ultrastructural analysis using chemical and cryo-fixation. <i>BMC Plant Biology</i> , <b>2017</b> , 17, 176	5.3	6
14	Metabolism of polysaccharides in dynamic middle lamellae during cotton fibre development. <i>Planta</i> , <b>2019</b> , 249, 1565-1581	4.7	4
13	Pectic galactan affects cell wall architecture during secondary cell wall deposition. <i>Planta</i> , <b>2020</b> , 251, 100	4.7	4
12	Comparative in situ analysis reveals the dynamic nature of sclerenchyma cell walls of the fern <i>Asplenium rutifolium</i> . <i>Annals of Botany</i> , <b>2018</b> , 121, 345-358	4.1	4
11	Plant Cell Wall Biology: Polysaccharides in Architectural and Developmental Contexts <b>2010</b> , 343-366		3
10	LM6-M: a high avidity rat monoclonal antibody to pectic $\beta$ 1,5-L-arabinan		3
9	Arabinogalactan-Proteins and Cell Development in Roots and Somatic Embryos <b>2000</b> , 95-107		3
8	LRX Proteins play a crucial role in pollen grain and pollen tube cell wall development		2
7	Delving in the deep for the origin of plant cell surface proteoglycans. <i>New Phytologist</i> , <b>2016</b> , 209, 1341-39.8		2
6	Monoclonal Antibodies, Carbohydrate-Binding Modules, and Detection of Polysaccharides in Cell Walls from Plants and Marine Algae. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2149, 351-364	1.4	2
5	Exploring the Use of Fruit Callus Culture as a Model System to Study Color Development and Cell Wall Remodeling during Strawberry Fruit Ripening. <i>Plants</i> , <b>2020</b> , 9,	4.5	1
4	Modulation of fibroblast behaviour by enzymatically-tailored pectins: PectiCoat. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2008</b> , 11, 171-172	2.1	1

- 3 Pectin Cell Biology: Complexity in Context **2003**, 147-157 1
- 2 A Role for Arabinogalactan-Proteins in Root Growth **2000**, 287-287
- 1 Molecules in Context: Probes for Cell Wall Analysis **2018**, 92-110