

# J Paul Knox

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/6812801/j-paul-knox-publications-by-year.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

200  
papers

15,551  
citations

68  
h-index

119  
g-index

204  
ext. papers

17,307  
ext. citations

5.7  
avg, IF

6.49  
L-index

#	Paper	IF	Citations
200	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
199	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
198	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
197	Pectic galactan affects cell wall architecture during secondary cell wall deposition. <i>Planta</i> , <b>2020</b> , 251, 100	4.7	4
196	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
195	Elucidating the role of polygalacturonase genes in strawberry fruit softening. <i>Journal of Experimental Botany</i> , <b>2020</b> , 71, 7103-7117	7	15
194	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
193	Pectin Methylsterases Modulate Plant Homogalacturonan Status in Defenses against the Aphid. <i>Plant Cell</i> , <b>2019</b> , 31, 1913-1929	11.6	18
192	Metabolism of polysaccharides in dynamic middle lamellae during cotton fibre development. <i>Planta</i> , <b>2019</b> , 249, 1565-1581	4.7	4
191	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
190	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
189	[(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
188	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
187	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
186	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
185	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
184	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

183	Xyloglucan is released by plants and promotes soil particle aggregation. <i>New Phytologist</i> , <b>2018</b> , 217, 1128-1136	9.8	42
182	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
181	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
180	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
179	Molecules in Context: Probes for Cell Wall Analysis <b>2018</b> , 92-110		
178	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
177	Plant Cell Wall Biology: Polysaccharides in Architectural and Developmental Contexts <b>2018</b> , 343-366		8
176	Elicitors and defense gene induction in plants with altered lignin compositions. <i>New Phytologist</i> , <b>2018</b> , 219, 1235-1251	9.8	34
175	The Gsp-1 genes encode the wheat arabinogalactan peptide. <i>Journal of Cereal Science</i> , <b>2017</b> , 74, 155-164	5.8	16
174	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
173	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
172	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
171	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
170	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
169	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
168	Complexity of the Ruminococcus flavefaciens 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
167	Characterization of the LM5 pectic galactan epitope with synthetic analogues of $\beta$ 1,4-d-galactotetraose. <i>Carbohydrate Research</i> , <b>2016</b> , 436, 36-40	2.9	22
166	Delving in the deep for the origin of plant cell surface proteoglycans. <i>New Phytologist</i> , <b>2016</b> , 209, 1341-39	3.8	2

165	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
164	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
163	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
162	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
161	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
160	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
159	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
158	Heteromannan and Heteroxylan 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
157	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
156	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
155	Multi-omics analysis identifies genes mediating the extension of cell walls in the <i>Arabidopsis thaliana</i> root elongation zone. <i>Frontiers in Cell and Developmental Biology</i> , <b>2015</b> , 3, 10	5.7	25
154	Monoclonal antibodies directed to fucoidan preparations from brown algae. <i>PLoS ONE</i> , <b>2015</b> , 10, e0118366	3.6	40
153	Low Sugar Is Not Always Good: Impact of Specific O-Glycan Defects on Tip Growth in <i>Arabidopsis</i> . <i>Plant Physiology</i> , <b>2015</b> , 168, 808-13	6.6	26
152	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
151	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
150	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
149	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
148	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

147	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
146	Analysis of the physical properties of developing cotton fibres. <i>European Polymer Journal</i> , <b>2014</b> , 51, 57-68	3.2	23
145	Non-cellulosic polysaccharides from cotton fibre are differently impacted by textile processing. <i>PLoS ONE</i> , <b>2014</b> , 9, e115150	3.7	8
144	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
143	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
142	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
141	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
140	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
139	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
138	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
137	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
136	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
135	Arabinogalactan proteins occur in the free-living cyanobacterium genus <i>Nostoc</i> and in plant- <i>Nostoc</i> symbioses. <i>Molecular Plant-Microbe Interactions</i> , <b>2012</b> , 25, 1338-49	3.6	12
134	In situ detection of cellulose with carbohydrate-binding modules. <i>Methods in Enzymology</i> , <b>2012</b> , 510, 233-45	1.7	11
133	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
132	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
131	Cell wall evolution and diversity. <i>Frontiers in Plant Science</i> , <b>2012</b> , 3, 152	6.2	75
130	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

129	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
128	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
127	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
126	Cell wall biology: perspectives from cell wall imaging. <i>Molecular Plant</i> , <b>2011</b> , 4, 212-9	14.4	110
125	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
124	ABA signalling modulates the detection of the LM6 arabinan cell wall epitope at the surface of Arabidopsis thaliana seedling root apices. <i>New Phytologist</i> , <b>2011</b> , 190, 618-26	9.8	18
123	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
122	Ginseng root water-extracted pectic polysaccharides originate from secretory cavities. <i>Planta</i> , <b>2011</b> , 234, 487-99	4.7	23
121	Ultrastructure and composition of cell wall appositions in the roots of Asplenium (Polypodiales). <i>Micron</i> , <b>2011</b> , 42, 863-70	2.3	19
120	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
119	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
118	An extensin-rich matrix lines the carinal canals in Equisetum ramosissimum, which may function as water-conducting channels. <i>Annals of Botany</i> , <b>2011</b> , 108, 307-19	4.1	21
117	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
116	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
115	ABA promotes quiescence of the quiescent centre and suppresses stem cell differentiation in the Arabidopsis primary root meristem. <i>Plant Journal</i> , <b>2010</b> , 64, 764-74	6.9	148
114	The TOR pathway modulates the structure of cell walls in Arabidopsis. <i>Plant Cell</i> , <b>2010</b> , 22, 1898-908	11.6	85
113	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
112	Plant Cell Wall Biology: Polysaccharides in Architectural and Developmental Contexts <b>2010</b> , 343-366		3

111	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
110	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
109	An extended set of monoclonal antibodies to pectic homogalacturonan. <i>Carbohydrate Research</i> , <b>2009</b> , 344, 1858-62	2.9	293
108	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
107	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
106	Fingerprinting complex pectins by chromatographic separation combined with ELISA detection. <i>Carbohydrate Research</i> , <b>2009</b> , 344, 1808-17	2.9	13
105	Pectins and Pectinases <b>2009</b> ,		13
104	Mapping the walls of the kingdom: the view from the horsetails. <i>New Phytologist</i> , <b>2008</b> , 179, 1-3	9.8	13
103	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
102	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
101	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
100	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	4.0	26
99	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
98	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
97	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
96	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
95	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
94	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



93	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
92	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
91	Detection of $\beta$ 1-4-galactan in compression wood of Sitka spruce [ <i>Picea sitchensis</i> (Bong.) Carrière] by immunofluorescence. <i>Holzforschung</i> , <b>2007</b> , 61, 311-316	2	33
90	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
89	In situ detection of cell wall polysaccharides in sitka spruce ( <i>Picea sitchensis</i> (Bong.) Carrière) wood tissue. <i>BioResources</i> , <b>2007</b> , 2, 284-295	1.3	12
88	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
87	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
86	Pectic Polysaccharides and Expanding Cell Walls <b>2006</b> , 139-158		7
85	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
84	Up against the wall: arabinogalactan-protein dynamics at cell surfaces. <i>New Phytologist</i> , <b>2006</b> , 169, 443-5	9.8	19
83	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
82	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
81	QUASIMODO1 is expressed in vascular tissue of <i>Arabidopsis thaliana</i> inflorescence stems, and affects homogalacturonan and xylan biosynthesis. <i>Planta</i> , <b>2005</b> , 222, 613-22	4.7	76
80	Distribution of pectic epitopes in cell walls of the sugar beet root. <i>Planta</i> , <b>2005</b> , 222, 355-71	4.7	54
79	<i>Physcomitrella patens</i> : A moss system for the study of plant cell walls. <i>Plant Biosystems</i> , <b>2005</b> , 139, 16-19	9.6	14
78	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
77	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
76	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



75	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
74	A xylogalacturonan epitope is specifically associated with plant cell detachment. <i>Planta</i> , <b>2004</b> , 218, 673-81	8.17	94
73	A monoclonal antibody to feruloylated-(1-->4)-beta-D-galactan. <i>Planta</i> , <b>2004</b> , 219, 1036-41	4.7	35
72	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
71	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
70	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
69	Intercellular adhesion and cell separation in plants. <i>Plant, Cell and Environment</i> , <b>2003</b> , 26, 977-989	8.4	241
68	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
67	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
66	Pectin Cell Biology: Complexity in Context <b>2003</b> , 147-157		1
65	Proteomic analysis of the Arabidopsis thaliana cell wall. <i>Electrophoresis</i> , <b>2002</b> , 23, 1754-65	3.6	214
64	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
63	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
62	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
61	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
60	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
59	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
58	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

57	Pectin: cell biology and prospects for functional analysis. <i>Plant Molecular Biology</i> , <b>2001</b> , 47, 9-27	4.6	771
56	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
55	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
54	Pectin: cell biology and prospects for functional analysis <b>2001</b> , 9-27		33
53	Involvement of diamine oxidase and peroxidase in insolubilization of the extracellular matrix: implications for pea nodule initiation by <i>Rhizobium leguminosarum</i> . <i>Molecular Plant-Microbe Interactions</i> , <b>2000</b> , 13, 413-20	3.6	96
52	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
51	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
50	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
49	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
48	Immunolocalization of LM2 arabinogalactan protein epitope associated with endomembranes of plant cells. <i>Protoplasma</i> , <b>2000</b> , 212, 186-196	3.4	42
47	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
46	A Role for Arabinogalactan-Proteins in Root Growth <b>2000</b> , 287-287		
45	Arabinogalactan-Proteins and Cell Development in Roots and Somatic Embryos <b>2000</b> , 95-107		3
44	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
43	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
42	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
41	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
40	Immunoprofiling of pectic polysaccharides. <i>Analytical Biochemistry</i> , <b>1999</b> , 268, 143-6	3.1	30

39	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
38	Generation of monoclonal antibody specific to (1→5)-alpha-L-arabinan. <i>Carbohydrate Research</i> , <b>1998</b> , 308, 149-52	2.9	312
37	Immunolocalization of [(1→4) and [(1→6)-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
36	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
35	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
34	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
33	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
32	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
31	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
30	Characterization of carbohydrate structural features recognized by anti-arabinogalactan-protein monoclonal antibodies. <i>Glycobiology</i> , <b>1996</b> , 6, 131-9	5.8	230
29	Identification of novel cell surface epitopes using a leaf epidermal-strip assay system. <i>Planta</i> , <b>1995</b> , 196, 266	4.7	22
28	The monoclonal antibody JIM19 modulates abscisic acid action in barley aleurone protoplasts. <i>Planta</i> , <b>1995</b> , 196, 271-276	4.7	15
27	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
26	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
25	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
24	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
23	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
22	Cell adhesion, cell separation and plant morphogenesis. <i>Plant Journal</i> , <b>1992</b> , 2, 137-141	6.9	99

21	Molecular probes for the plant cell surface. <i>Protoplasma</i> , <b>1992</b> , 167, 1-9	3.4	46
20	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
19	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
18	Cellulose and pectin localization in roots of mycorrhizal <i>Allium porrum</i> : labelling continuity between host cell wall and interfacial material. <i>Planta</i> , <b>1990</b> , 180, 537-47	4.7	107
17	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
16	Patterns of expression of the JIM4 arabinogalactan-protein epitope in cell cultures and during somatic embryogenesis in <i>Daucus carota</i> L. <i>Planta</i> , <b>1990</b> , 180, 285-92	4.7	99
15	Carbohydrate antigens and lectin receptors of the plasma membrane of carrot cells. <i>Protoplasma</i> , <b>1989</b> , 152, 123-129	3.4	12
14	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
13	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
12	Monoclonal antibodies to 13-deoxy-gibberellins. <i>Plant Physiology</i> , <b>1988</b> , 88, 959-60	6.6	11
11	Preparation and characterization of monoclonal antibodies which recognise different gibberellin epitopes. <i>Planta</i> , <b>1987</b> , 170, 86-91	4.7	34
10	Use of monoclonal antibodies to separate the enantiomers of abscisic acid. <i>Analytical Biochemistry</i> , <b>1986</b> , 155, 92-4	3.1	38
9	Photosensitisers from plants. <i>Pest Management Science</i> , <b>1986</b> , 17, 579-586		22
8	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
7	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
6	Singlet oxygen and plants. <i>Phytochemistry</i> , <b>1985</b> , 24, 889-896	4	276
5	Isolation and activity of the photodynamic pigment hypericin. <i>Plant, Cell and Environment</i> , <b>1985</b> , 8, 19-258.4		79
4	Apical Dominance in <i>Phaseolus vulgaris</i> L.. <i>Journal of Experimental Botany</i> , <b>1984</b> , 35, 239-244	7	46

- 3 Photodynamic damage to plant leaf tissue by rose bengal. *Plant Science Letters*, **1984**, 37, 3-7 42
- 2 LM6-M: a high avidity rat monoclonal antibody to pectic  $\beta$ 1,5-L-arabinan 3
- 1 LRX Proteins play a crucial role in pollen grain and pollen tube cell wall development 2