

Tony Bacic

List of Publications by Year in Descending Order

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Version: 2024-04-24

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

188
papers

10,398
citations

53
h-index

97
g-index

193
ext. papers

12,737
ext. citations

6.5
avg, IF

6.27
L-index

#	Paper	IF	Citations
188	Nutritional properties of selected superfood extracts and their potential health benefits.. <i>PeerJ</i> , 2021 , 9, e12525	3.1	0
187	Biochemical and Functional Characterization of GALT8, an GT31 [(1,3)-Galactosyltransferase That Influences Seedling Development. <i>Frontiers in Plant Science</i> , 2021 , 12, 678564	6.2	2
186	The composition of Australian <i>Plantago</i> seeds highlights their potential as nutritionally-rich functional food ingredients. <i>Scientific Reports</i> , 2021 , 11, 12692	4.9	1
185	MADS1 maintains barley spike morphology at high ambient temperatures. <i>Nature Plants</i> , 2021 , 7, 1093-1107	11.5	7
184	The goo-d stuff: <i>Plantago</i> as a myxospermous model with modern utility. <i>New Phytologist</i> , 2021 , 229, 1917-1923	9.8	2
183	Cell wall modification by the xyloglucan endotransglucosylase/hydrolase XTH19 influences freezing tolerance after cold and sub-zero acclimation. <i>Plant, Cell and Environment</i> , 2021 , 44, 915-930	8.4	11
182	Recent advances in <i>Cannabis sativa</i> genomics research. <i>New Phytologist</i> , 2021 , 230, 73-89	9.8	23
181	Untargeted Metabolomic Analyses Reveal Chemical Complexity of Dioecious Cannabis Flowers. <i>Australian Journal of Chemistry</i> , 2021 , 74, 463	1.2	2
180	A Pipeline towards the Biochemical Characterization of the GT14 Family. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
179	Cracking the "Sugar Code": A Snapshot of - and -Glycosylation Pathways and Functions in Plants Cells. <i>Frontiers in Plant Science</i> , 2021 , 12, 640919	6.2	9
178	Analysis of Genetic Diversity in the Traditional Chinese Medicine Plant <i>Akushen</i> (Ait.). <i>Frontiers in Plant Science</i> , 2021 , 12, 704201	6.2	0
177	Transcript Profiling of MIKCC MADS-Box Genes Reveals Conserved and Novel Roles in Barley Inflorescence Development. <i>Frontiers in Plant Science</i> , 2021 , 12, 705286	6.2	1
176	The cell wall polysaccharides of a photosynthetic relative of apicomplexans, <i>Chromera velia</i> . <i>Journal of Phycology</i> , 2021 , 57, 1805-1809	3	
175	Genome-wide association study reveals the genetic complexity of fructan accumulation patterns in barley grain. <i>Journal of Experimental Botany</i> , 2021 , 72, 2383-2402	7	5
174	Fasciclin-Like Arabinogalactan-Protein 16 (FLA16) Is Required for Stem Development in. <i>Frontiers in Plant Science</i> , 2020 , 11, 615392	6.2	8
173	Evolution of Sequence-Diverse Disordered Regions in a Protein Family: Order within the Chaos. <i>Molecular Biology and Evolution</i> , 2020 , 37, 2155-2172	8.3	6
172	Arabinogalactan-proteins of <i>Zostera marina</i> L. contain unique glycan structures and provide insight into adaption processes to saline environments. <i>Scientific Reports</i> , 2020 , 10, 8232	4.9	15

171	A small-scale fractionation pipeline for rapid analysis of seed mucilage characteristics. <i>Plant Methods</i> , 2020 , 16, 20	5.8	5
170	Integrative Multi-omics Analyses of Barley Rootzones under Salinity Stress Reveal Two Distinctive Salt Tolerance Mechanisms. <i>Plant Communications</i> , 2020 , 1, 100031	9	13
169	The effect of zinc fertilisation and arbuscular mycorrhizal fungi on grain quality and yield of contrasting barley cultivars. <i>Functional Plant Biology</i> , 2020 , 47, 122-133	2.7	6
168	Epigenetic mechanisms involved in intrauterine growth restriction and aberrant kidney development and function. <i>Journal of Developmental Origins of Health and Disease</i> , 2020 , 1-11	2.4	2
167	Transcriptional and biochemical analyses of gibberellin expression and content in germinated barley grain. <i>Journal of Experimental Botany</i> , 2020 , 71, 1870-1884	7	11
166	Effects of Excess Manganese on the Xylem Sap Protein Profile of Tomato () as Revealed by Shotgun Proteomic Analysis. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
165	The Role of Wall-Associated Kinases (WAKs) in Cell Expansion and Stress Responses. <i>Cells</i> , 2020 , 9,	7.9	4
164	UDP-Api/UDP-Xyl synthases affect plant development by controlling the content of UDP-Api to regulate the RG-II-borate complex. <i>Plant Journal</i> , 2020 , 104, 252-267	6.9	5
163	The novel features of <i>Plantago ovata</i> seed mucilage accumulation, storage and release. <i>Scientific Reports</i> , 2020 , 10, 11766	4.9	4
162	Targeted mutation of barley (1,3;1,4)- β -glucan synthases reveals complex relationships between the storage and cell wall polysaccharide content. <i>Plant Journal</i> , 2020 , 104, 1009-1022	6.9	11
161	Biochemical Compositional Analysis and Kinetic Modeling of Hydrothermal Carbonization of Australian Saltbush. <i>Energy & Fuels</i> , 2019 , 33, 12469-12479	4.1	12
160	Barley grain (1,3;1,4)- β -glucan content: effects of transcript and sequence variation in genes encoding the corresponding synthase and endohydrolase enzymes. <i>Scientific Reports</i> , 2019 , 9, 17250	4.9	8
159	Natural Variation in Ovule Morphology Is Influenced by Multiple Tissues and Impacts Downstream Grain Development in Barley (<i>L.</i>). <i>Frontiers in Plant Science</i> , 2019 , 10, 1374	6.2	6
158	Hydrothermal Carbonization of Australian Saltbush. <i>Energy & Fuels</i> , 2019 , 33, 1157-1166	4.1	6
157	A Novel (1,4)- β -linked Glucoxytan Is Synthesized by Members of the Gene Family in Land Plants. <i>ACS Central Science</i> , 2019 , 5, 73-84	16.8	15
156	Accumulation of volatile phenol glycoconjugates in grapes following grapevine exposure to smoke and potential mitigation of smoke taint by foliar application of kaolin. <i>Planta</i> , 2019 , 249, 941-952	4.7	21
155	Plant glycosylphosphatidylinositol anchored proteins at the plasma membrane-cell wall nexus. <i>Journal of Integrative Plant Biology</i> , 2018 , 60, 649-669	8.3	30
154	Functional Characterization of a Glycosyltransferase from the Moss Involved in the Biosynthesis of a Novel Cell Wall Arabinoglucan. <i>Plant Cell</i> , 2018 , 30, 1293-1308	11.6	12

153	Genetic and environmental factors contribute to variation in cell wall composition in mature desi chickpea (<i>Cicer arietinum</i> L.) cotyledons. <i>Plant, Cell and Environment</i> , 2018 , 41, 2195-2208	8.4	18
152	Root cell wall solutions for crop plants in saline soils. <i>Plant Science</i> , 2018 , 269, 47-55	5.3	87
151	N-linked Glycan Micro-heterogeneity in Glycoproteins of Arabidopsis. <i>Molecular and Cellular Proteomics</i> , 2018 , 17, 413-421	7.6	29
150	Method for hull-less barley transformation and manipulation of grain mixed-linkage beta-glucan. <i>Journal of Integrative Plant Biology</i> , 2018 , 60, 382-396	8.3	8
149	Cell wall biomechanics: a tractable challenge in manipulating plant cell walls for purpose. <i>Current Opinion in Biotechnology</i> , 2018 , 49, 163-171	11.4	23
148	Abiotic Stress and Metabolomics 2018 , 61-85		12
147	Molecular Mechanism of Xylogenesis in Moso Bamboo (<i>Dendrocalamus monostachyus</i>) Shoots during Cold Storage. <i>Polymers</i> , 2018 , 11,	4.5	7
146	Loss of LOFSEP Transcription Factor Function Converts Spikelet to Leaf-Like Structures in Rice. <i>Plant Physiology</i> , 2018 , 176, 1646-1664	6.6	33
145	Role, Importance and Biosynthesis of Cell Wall-Bound Phenolic Acids in Cereals 2018 , 737-766		3
144	Genes and Enzymes of the GT31 Family: Towards Unravelling The Function(s) of the Plant Glycosyltransferase Family Members 2018 , 213-234		1
143	Non-Enzymic Cell Wall (glyco)Proteins 2018 , 111-154		5
142	Plant Cell Wall Biosynthesis: Making the Bricks 2018 , 183-222		3
141	AGPs Through Time and Space 2018 , 767-804		15
140	Blue Light Regulates Secondary Cell Wall Thickening via MYC2/MYC4 Activation of the -Directed Transcriptional Network in Arabidopsis. <i>Plant Cell</i> , 2018 , 30, 2512-2528	11.6	25
139	Hitting the Wall-Sensing and Signaling Pathways Involved in Plant Cell Wall Remodeling in Response to Abiotic Stress. <i>Plants</i> , 2018 , 7,	4.5	69
138	A Golgi UDP-GlcNAc transporter delivers substrates for N-linked glycans and sphingolipids. <i>Nature Plants</i> , 2018 , 4, 792-801	11.5	14
137	Quantitative structural organisation model for wheat endosperm cell walls: Cellulose as an important constituent. <i>Carbohydrate Polymers</i> , 2018 , 196, 199-208	10.3	41
136	Revised Phylogeny of the Gene Superfamily: Insights into Cell Wall Evolution. <i>Plant Physiology</i> , 2018 , 177, 1124-1141	6.6	64

135	The plant secretory pathway seen through the lens of the cell wall. <i>Protoplasma</i> , 2017 , 254, 75-94	3.4	30
134	Effect of Processing on Viscosity and Molecular Weight of (1,3)(1,4)- β -Glucan in Western Australian Oat Cultivars. <i>Cereal Chemistry</i> , 2017 , 94, 625-632	2.4	5
133	Isolation of tissues and preservation of RNA from intact, germinated barley grain. <i>Plant Journal</i> , 2017 , 91, 754-765	6.9	17
132	Insights into the Evolution of Hydroxyproline-Rich Glycoproteins from 1000 Plant Transcriptomes. <i>Plant Physiology</i> , 2017 , 174, 904-921	6.6	36
131	Pipeline to Identify Hydroxyproline-Rich Glycoproteins. <i>Plant Physiology</i> , 2017 , 174, 886-903	6.6	35
130	Variation in barley (1 \rightarrow 3, 1 \rightarrow 4)- β -glucan endohydrolases reveals novel allozymes with increased thermostability. <i>Theoretical and Applied Genetics</i> , 2017 , 130, 1053-1063	6	5
129	Novel Barley (1 \rightarrow 3, 1 \rightarrow 4)- β -Glucan Endohydrolase Alleles Confer Increased Enzyme Thermostability. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 421-428	5.7	0
128	Regulation of cell wall genes in response to DEFECTIVE KERNEL1 (DEK1)-induced cell wall changes. <i>Plant Signaling and Behavior</i> , 2017 , 12, e1345405	2.5	2
127	Isolation and structural elucidation by 2D NMR of planteose, a major oligosaccharide in the mucilage of chia (<i>Salvia hispanica</i> L.) seeds. <i>Carbohydrate Polymers</i> , 2017 , 175, 231-240	10.3	21
126	Functional Specialization of Cellulose Synthase Isoforms in a Moss Shows Parallels with Seed Plants. <i>Plant Physiology</i> , 2017 , 175, 210-222	6.6	21
125	KNS4/UPEX1: A Type II Arabinogalactan [(1,3)-Galactosyltransferase Required for Pollen Exine Development. <i>Plant Physiology</i> , 2017 , 173, 183-205	6.6	47
124	Enrichment of Golgi Membranes from <i>Triticum aestivum</i> (Wheat) Seedlings. <i>Methods in Molecular Biology</i> , 2017 , 1511, 131-150	1.4	2
123	DEFECTIVE KERNEL1 regulates cell wall composition and axial growth in the inflorescence stem. <i>Plant Direct</i> , 2017 , 1, e00027	3.3	3
122	Dissecting the Genetic Basis for Seed Coat Mucilage Heteroxylan Biosynthesis in Using Gamma Irradiation and Infrared Spectroscopy. <i>Frontiers in Plant Science</i> , 2017 , 8, 326	6.2	13
121	Morphology, Carbohydrate Distribution, Gene Expression, and Enzymatic Activities Related to Cell Wall Hydrolysis in Four Barley Varieties during Simulated Malting. <i>Frontiers in Plant Science</i> , 2017 , 8, 1872	6.2	17
120	A Genome Wide Association Study of arabinoxylan content in 2-row spring barley grain. <i>PLoS ONE</i> , 2017 , 12, e0182537	3.7	14
119	Mass spectrometry imaging for plant biology: a review. <i>Phytochemistry Reviews</i> , 2016 , 15, 445-488	7.7	149
118	Down-regulation of the glucan synthase-like 6 gene (HvGsl6) in barley leads to decreased callose accumulation and increased cell wall penetration by <i>Blumeria graminis</i> f. sp. hordei. <i>New Phytologist</i> , 2016 , 212, 434-43	9.8	25

117	The barley (<i>Hordeum vulgare</i>) cellulose synthase-like D2 gene (HvCslD2) mediates penetration resistance to host-adapted and nonhost isolates of the powdery mildew fungus. <i>New Phytologist</i> , 2016 , 212, 421-33	9.8	39
116	DEFECTIVE KERNEL1 (DEK1) Regulates Cell Walls in the Leaf Epidermis. <i>Plant Physiology</i> , 2016 , 172, 2206-2218	6.6	23
115	Cell-Type-Specific H ⁺ -ATPase Activity in Root Tissues Enables K ⁺ Retention and Mediates Acclimation of Barley (<i>Hordeum vulgare</i>) to Salinity Stress. <i>Plant Physiology</i> , 2016 , 172, 2445-2458	6.6	99
114	Low-Input Fermentations of Agave tequilana Leaf Juice Generate High Returns on Ethanol Yields. <i>Bioenergy Research</i> , 2016 , 9, 1142-1154	3.1	7
113	The Dynamics of Transcript Abundance during Cellularization of Developing Barley Endosperm. <i>Plant Physiology</i> , 2016 , 170, 1549-65	6.6	23
112	Root spatial metabolite profiling of two genotypes of barley (<i>Hordeum vulgare</i> L.) reveals differences in response to short-term salt stress. <i>Journal of Experimental Botany</i> , 2016 , 67, 3731-45	7	74
111	(1,3;1,4)- β -Glucan Biosynthesis by the CSLF6 Enzyme: Position and Flexibility of Catalytic Residues Influence Product Fine Structure. <i>Biochemistry</i> , 2016 , 55, 2054-61	3.2	25
110	Genetic Diversity and Genome Wide Association Study of β -Glucan Content in Tetraploid Wheat Grains. <i>PLoS ONE</i> , 2016 , 11, e0152590	3.7	30
109	Prospecting for Energy-Rich Renewable Raw Materials: Sorghum Stem Case Study. <i>PLoS ONE</i> , 2016 , 11, e0156638	3.7	5
108	Fruit Calcium: Transport and Physiology. <i>Frontiers in Plant Science</i> , 2016 , 7, 569	6.2	153
107	Arabinogalactan proteins have deep roots in eukaryotes: identification of genes and epitopes in brown algae and their role in <i>Fucus serratus</i> embryo development. <i>New Phytologist</i> , 2016 , 209, 1428-41	9.8	48
106	Differences in glycosyltransferase family 61 accompany variation in seed coat mucilage composition in <i>Plantago</i> spp. <i>Journal of Experimental Botany</i> , 2016 , 67, 6481-6495	7	24
105	Regulation of Meristem Morphogenesis by Cell Wall Synthases in Arabidopsis. <i>Current Biology</i> , 2016 , 26, 1404-15	6.3	61
104	Genetics, Transcriptional Profiles, and Catalytic Properties of the UDP-Arabinose Mutase Family from Barley. <i>Biochemistry</i> , 2016 , 55, 322-34	3.2	9
103	A Glycosyltransferase from <i>Nicotiana glauca</i> Pollen Mediates Synthesis of a Linear (1,5)- β -Arabinan When Expressed in Arabidopsis. <i>Plant Physiology</i> , 2016 , 170, 1962-74	6.6	13
102	A tandem liquid chromatography-mass spectrometry (LC/MS) method for profiling small molecules in complex samples. <i>Metabolomics</i> , 2015 , 11, 1552-1562	4.7	11
101	Grape marc as a source of carbohydrates for bioethanol: Chemical composition, pre-treatment and saccharification. <i>Bioresource Technology</i> , 2015 , 193, 76-83	11	76
100	Interactions of arabinoxylan and (1,3)(1,4)- β -glucan with cellulose networks. <i>Biomacromolecules</i> , 2015 , 16, 1232-9	6.9	50

99	Differential expression of the gene late in grain development may explain quantitative differences in (1,3;1,4)-β-glucan concentration in barley. <i>Molecular Breeding</i> , 2015 , 35, 20	3.4	13
98	Determining the subcellular location of synthesis and assembly of the cell wall polysaccharide (1,3;1,4)-β-D-glucan in grasses. <i>Plant Cell</i> , 2015 , 27, 754-71	11.6	49
97	Endosymbiosis undone by stepwise elimination of the plastid in a parasitic dinoflagellate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5767-72	11.5	60
96	Wine protein haze: mechanisms of formation and advances in prevention. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 4020-30	5.7	106
95	Unique aspects of the structure and dynamics of elementary cellulose microfibrils revealed by computational simulations. <i>Plant Physiology</i> , 2015 , 168, 3-17	6.6	63
94	Arabidopsis leucine-rich repeat extensin (LRX) proteins modify cell wall composition and influence plant growth. <i>BMC Plant Biology</i> , 2015 , 15, 155	5.3	65
93	Distribution, structure and biosynthetic gene families of (1,3;1,4)-β-glucan in Sorghum bicolor. <i>Journal of Integrative Plant Biology</i> , 2015 , 57, 429-45	8.3	22
92	Genetics and physiology of cell wall polysaccharides in the model C4 grass, Setaria viridis spp. <i>BMC Plant Biology</i> , 2015 , 15, 236	5.3	11
91	Proteomic analysis of Pteropus alecto kidney cells in response to the viral mimic, Poly I:C. <i>Proteome Science</i> , 2015 , 13, 25	2.6	5
90	FunRich: An open access standalone functional enrichment and interaction network analysis tool. <i>Proteomics</i> , 2015 , 15, 2597-601	4.8	735
89	The dynamics of cereal cyst nematode infection differ between susceptible and resistant barley cultivars and lead to changes in (1,3;1,4)-β-glucan levels and HvCslF gene transcript abundance. <i>New Phytologist</i> , 2015 , 207, 135-147	9.8	31
88	Prospecting for Energy-Rich Renewable Raw Materials: Agave Leaf Case Study. <i>PLoS ONE</i> , 2015 , 10, e0135382	3.5	51
87	Characterization of protein N-glycosylation by tandem mass spectrometry using complementary fragmentation techniques. <i>Frontiers in Plant Science</i> , 2015 , 6, 674	6.2	21
86	EXIMS: an improved data analysis pipeline based on a new peak picking method for EXploring Imaging Mass Spectrometry data. <i>Bioinformatics</i> , 2015 , 31, 3198-206	7.2	22
85	Regulation of Starch Stores by a Ca(2+)-Dependent Protein Kinase Is Essential for Viable Cyst Development in Toxoplasma gondii. <i>Cell Host and Microbe</i> , 2015 , 18, 670-81	23.4	49
84	Detection of QTL for metabolic and agronomic traits in wheat with adjustments for variation at genetic loci that affect plant phenology. <i>Plant Science</i> , 2015 , 233, 143-154	5.3	60
83	Asparagus Spears as a Model to Study Heteroxylan Biosynthesis during Secondary Wall Development. <i>PLoS ONE</i> , 2015 , 10, e0123878	3.7	12
82	A Genome-Wide Association Study for Culm Cellulose Content in Barley Reveals Candidate Genes Co-Expressed with Members of the CELLULOSE SYNTHASE A Gene Family. <i>PLoS ONE</i> , 2015 , 10, e0130890	2.7	15

81	Genome Wide Association Mapping for Arabinoxylan Content in a Collection of Tetraploid Wheats. <i>PLoS ONE</i> , 2015 , 10, e0132787	3.7	34
80	Are designer plant cell walls a realistic aspiration or will the plasticity of the plant metabolism win out?. <i>Current Opinion in Biotechnology</i> , 2014 , 26, 108-14	11.4	40
79	Plant cell wall engineering: applications in biofuel production and improved human health. <i>Current Opinion in Biotechnology</i> , 2014 , 26, 79-84	11.4	50
78	The reducing end sequence of wheat endosperm cell wall arabinoxylans. <i>Carbohydrate Research</i> , 2014 , 386, 23-32	2.9	15
77	Evidence for land plant cell wall biosynthetic mechanisms in charophyte green algae. <i>Annals of Botany</i> , 2014 , 114, 1217-36	4.1	55
76	Evolution and development of cell walls in cereal grains. <i>Frontiers in Plant Science</i> , 2014 , 5, 456	6.2	88
75	Biochemical and molecular changes associated with heteroxylan biosynthesis in <i>Neolamarckia cadamba</i> (Rubiaceae) during xylogenesis. <i>Frontiers in Plant Science</i> , 2014 , 5, 602	6.2	17
74	Differential accumulation of callose, arabinoxylan and cellulose in nonpenetrated versus penetrated papillae on leaves of barley infected with <i>Blumeria graminis</i> f. sp. <i>hordei</i> . <i>New Phytologist</i> , 2014 , 204, 650-660	9.8	82
73	The barley genome sequence assembly reveals three additional members of the CslF (1,3;1,4)- β -glucan synthase gene family. <i>PLoS ONE</i> , 2014 , 9, e90888	3.7	29
72	The response of the maize nitrate transport system to nitrogen demand and supply across the lifecycle. <i>New Phytologist</i> , 2013 , 198, 82-94	9.8	85
71	Exploratory analysis of high-throughput metabolomic data. <i>Metabolomics</i> , 2013 , 9, 1311-1320	4.7	9
70	Genetic variation in the root growth response of barley genotypes to salinity stress. <i>Functional Plant Biology</i> , 2013 , 40, 516-530	2.7	30
69	Characterization of ion contents and metabolic responses to salt stress of different <i>Arabidopsis</i> AtHKT1;1 genotypes and their parental strains. <i>Molecular Plant</i> , 2013 , 6, 350-68	14.4	45
68	Arabinogalactan-proteins and the research challenges for these enigmatic plant cell surface proteoglycans. <i>Frontiers in Plant Science</i> , 2012 , 3, 140	6.2	113
67	Determining the polysaccharide composition of plant cell walls. <i>Nature Protocols</i> , 2012 , 7, 1590-607	18.8	402
66	Preparation of plant cells for transmission electron microscopy to optimize immunogold labeling of carbohydrate and protein epitopes. <i>Nature Protocols</i> , 2012 , 7, 1716-27	18.8	91
65	An exo- β (1 \rightarrow 3)-D-galactanase from <i>Streptomyces</i> sp. provides insights into type II arabinogalactan structure. <i>Carbohydrate Research</i> , 2012 , 352, 70-81	2.9	15
64	Current challenges in cell wall biology in the cereals and grasses. <i>Frontiers in Plant Science</i> , 2012 , 3, 130	6.2	59

63	O-glycosylated cell wall proteins are essential in root hair growth. <i>Science</i> , 2011 , 332, 1401-3	33.3	220
62	Over-expression of specific HvCslF cellulose synthase-like genes in transgenic barley increases the levels of cell wall (1,3;1,4)- β -D-glucans and alters their fine structure. <i>Plant Biotechnology Journal</i> , 2011 , 9, 117-35	11.6	131
61	The charophycean green algae provide insights into the early origins of plant cell walls. <i>Plant Journal</i> , 2011 , 68, 201-11	6.9	172
60	Abiotic Stress and Metabolomics 2011 , 61-85		9
59	Heterogeneity in the chemistry, structure and function of plant cell walls. <i>Nature Chemical Biology</i> , 2010 , 6, 724-32	11.7	398
58	Arabinogalactan-proteins: key regulators at the cell surface?. <i>Plant Physiology</i> , 2010 , 153, 403-19	6.6	337
57	REVIEW: Variability in Fine Structures of Noncellulosic Cell Wall Polysaccharides from Cereal Grains: Potential Importance in Human Health and Nutrition. <i>Cereal Chemistry</i> , 2010 , 87, 272-282	2.4	125
56	Plant cell walls: the skeleton of the plant world. <i>Functional Plant Biology</i> , 2010 , 37, 357	2.7	134
55	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. <i>Plant Physiology</i> , 2010 , 153, 1716-28	6.6	28
54	Phylogenetic analysis and functional characterisation of strictosidine synthase-like genes in <i>Arabidopsis thaliana</i> . <i>Functional Plant Biology</i> , 2010 , 36, 1098-1109	2.7	7
53	Effects of Yariv dyes, arabinogalactan-protein binding reagents, on the growth and viability of Brazilian pine suspension culture cells. <i>Trees - Structure and Function</i> , 2010 , 24, 391-398	2.6	7
52	Biotransformation of ingenol-3-angelate in four plant cell suspension cultures. <i>Biocatalysis and Biotransformation</i> , 2009 , 27, 186-194	2.5	7
51	Metabolic profiling of transgenic wheat over-expressing the high-molecular-weight Dx5 glutenin subunit. <i>Metabolomics</i> , 2009 , 5, 239-252	4.7	32
50	Hyphal cell walls from the plant pathogen <i>Rhynchosporium secalis</i> contain (1,3/1,6)- β -D-glucans, galacto- and rhamnomannans, (1,3;1,4)- β -D-glucans and chitin. <i>FEBS Journal</i> , 2009 , 276, 3698-709	5.7	29
49	Metabolic responses to salt stress of barley (<i>Hordeum vulgare</i> L.) cultivars, Sahara and Clipper, which differ in salinity tolerance. <i>Journal of Experimental Botany</i> , 2009 , 60, 4089-103	7	318
48	(1,3;1,4)- β -D-glucans in cell walls of the poaceae, lower plants, and fungi: a tale of two linkages. <i>Molecular Plant</i> , 2009 , 2, 873-82	14.4	132
47	Mixed-linkage (1 \rightarrow 3),(1 \rightarrow 4)- β -D-glucan is not unique to the Poales and is an abundant component of <i>Equisetum arvense</i> cell walls. <i>Plant Journal</i> , 2008 , 54, 510-21	6.9	133
46	Structure of the N-Linked Oligosaccharides from Tridacnin, a Lectin Found in the Haemolymph of the Giant Clam <i>Hippopus Hippopus</i> . <i>FEBS Journal</i> , 2008 , 232, 873-880		2

45	The genetics and transcriptional profiles of the cellulose synthase-like HvCslF gene family in barley. <i>Plant Physiology</i> , 2008 , 146, 1821-33	6.6	177
44	Identification of a novel group of putative Arabidopsis thaliana beta-(1,3)-galactosyltransferases. <i>Plant Molecular Biology</i> , 2008 , 68, 43-59	4.6	68
43	High-throughput mapping of cell-wall polymers within and between plants using novel microarrays. <i>Plant Journal</i> , 2007 , 50, 1118-28	6.9	241
42	The impact of constitutive heterologous expression of a moss Na ⁺ transporter on the metabolomes of rice and barley. <i>Metabolomics</i> , 2007 , 3, 307-317	4.7	53
41	Biotransformation of podophyllotoxin by <i>Hordeum vulgare</i> cell suspension cultures. <i>Biocatalysis and Biotransformation</i> , 2007 , 25, 1-8	2.5	8
40	Breaking an impasse in pectin biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 5639-40	11.5	27
39	Effects of structural variation in xyloglucan polymers on interactions with bacterial cellulose. <i>American Journal of Botany</i> , 2006 , 93, 1402-14	2.7	80
38	Cellulose synthase-like CslF genes mediate the synthesis of cell wall (1,3;1,4)-beta-D-glucans. <i>Science</i> , 2006 , 311, 1940-2	33.3	346
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