

# Jun Hirabayashi

## List of Publications by Citations

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243  
papers

12,841  
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105  
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247  
ext. papers

13,821  
ext. citations

4.9  
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6.11  
L-index

#	Paper	IF	Citations
243	Galectins: a family of animal beta-galactoside-binding lectins. <i>Cell</i> , <b>1994</b> , 76, 597-8	56.2	1020
242	Oligosaccharide specificity of galectins: a search by frontal affinity chromatography. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2002</b> , 1572, 232-54	4	697
241	Lectin affinity capture, isotope-coded tagging and mass spectrometry to identify N-linked glycoproteins. <i>Nature Biotechnology</i> , <b>2003</b> , 21, 667-72	44.5	565
240	The family of metazoan metal-independent beta-galactoside-binding lectins: structure, function and molecular evolution. <i>Glycobiology</i> , <b>1993</b> , 3, 297-304	5.8	447
239	Evanescent-field fluorescence-assisted lectin microarray: a new strategy for glycan profiling. <i>Nature Methods</i> , <b>2005</b> , 2, 851-6	21.6	436
238	C-type lectin Mincle is an activating receptor for pathogenic fungus, <i>Malassezia</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 1897-902	11.5	305
237	Recombinant galectin-1 and its genetic delivery suppress collagen-induced arthritis via T cell apoptosis. <i>Journal of Experimental Medicine</i> , <b>1999</b> , 190, 385-98	16.6	302
236	Growth-regulatory human galectin-1: crystallographic characterisation of the structural changes induced by single-site mutations and their impact on the thermodynamics of ligand binding. <i>Journal of Molecular Biology</i> , <b>2004</b> , 343, 957-70	6.5	244
235	Galectin-3 interaction with Thomsen-Friedenreich disaccharide on cancer-associated MUC1 causes increased cancer cell endothelial adhesion. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 773-81	5.4	212
234	Lectin microarrays: concept, principle and applications. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 4443-58	58.5	208
233	Lectin-based structural glycomics: glycoproteomics and glycan profiling. <i>Glycoconjugate Journal</i> , <b>2004</b> , 21, 35-40	3	205
232	Visualization of galectin-3 oligomerization on the surface of neutrophils and endothelial cells using fluorescence resonance energy transfer. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 1374-83	5.4	176
231	Inhibition of tumor cell-induced platelet aggregation using a novel anti-podoplanin antibody reacting with its platelet-aggregation-stimulating domain. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 349, 1301-7	3.4	167
230	Galectin-1 suppresses autoimmune retinal disease by promoting concomitant Th2- and T regulatory-mediated anti-inflammatory responses. <i>Journal of Immunology</i> , <b>2006</b> , 176, 6323-32	5.3	162
229	Glycome diagnosis of human induced pluripotent stem cells using lectin microarray. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 20345-53	5.4	151
228	Galectin-9 increases Tim-3+ dendritic cells and CD8+ T cells and enhances antitumor immunity via galectin-9-Tim-3 interactions. <i>Journal of Immunology</i> , <b>2008</b> , 181, 7660-9	5.3	147
227	Galectin-1 acts as a soluble host factor that promotes HIV-1 infectivity through stabilization of virus attachment to host cells. <i>Journal of Immunology</i> , <b>2005</b> , 174, 4120-6	5.3	145

226	A novel strategy for mammalian cell surface glycome profiling using lectin microarray. <i>Glycobiology</i> , <b>2007</b> , 17, 1138-46	5.8	143
225	A novel biological activity for galectin-1: inhibition of leukocyte-endothelial cell interactions in experimental inflammation. <i>American Journal of Pathology</i> , <b>2003</b> , 163, 1505-15	5.8	125
224	Concept, strategy and realization of lectin-based glycan profiling. <i>Journal of Biochemistry</i> , <b>2008</b> , 144, 139-47	3.1	117
223	Glycoconjugate microarray based on an evanescent-field fluorescence-assisted detection principle for investigation of glycan-binding proteins. <i>Glycobiology</i> , <b>2008</b> , 18, 789-98	5.8	117
222	Frontal affinity chromatography: sugar-protein interactions. <i>Nature Protocols</i> , <b>2007</b> , 2, 2529-37	18.8	115
221	Stimulation of proliferation of rat hepatic stellate cells by galectin-1 and galectin-3 through different intracellular signaling pathways. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 18938-44	5.4	106
220	Nucleotide sequence of chick 14K beta-galactoside-binding lectin mRNA. <i>Biochemical and Biophysical Research Communications</i> , <b>1986</b> , 134, 51-6	3.4	96
219	Polylactosamine on glycoproteins influences basal levels of lymphocyte and macrophage activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 15829-34	11.5	95
218	Focused differential glycan analysis with the platform antibody-assisted lectin profiling for glycan-related biomarker verification. <i>Molecular and Cellular Proteomics</i> , <b>2009</b> , 8, 99-108	7.6	93
217	Specific recognition of <i>Leishmania major</i> poly-beta-galactosyl epitopes by galectin-9: possible implication of galectin-9 in interaction between <i>L. major</i> and host cells. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 22223-30	5.4	93
216	Comparative analysis of core-fucose-binding lectins from <i>Lens culinaris</i> and <i>Pisum sativum</i> using frontal affinity chromatography. <i>Glycobiology</i> , <b>2009</b> , 19, 527-36	5.8	92
215	Elucidation of binding specificity of Jacalin toward O-glycosylated peptides: quantitative analysis by frontal affinity chromatography. <i>Glycobiology</i> , <b>2006</b> , 16, 46-53	5.8	87
214	Functional glycosylation of human podoplanin: glycan structure of platelet aggregation-inducing factor. <i>FEBS Letters</i> , <b>2007</b> , 581, 331-6	3.8	85
213	Frontal affinity chromatography as a tool for elucidation of sugar recognition properties of lectins. <i>Methods in Enzymology</i> , <b>2003</b> , 362, 353-68	1.7	85
212	Elimination of tumorigenic human pluripotent stem cells by a recombinant lectin-toxin fusion protein. <i>Stem Cell Reports</i> , <b>2015</b> , 4, 811-20	8	80
211	A novel core fucose-specific lectin from the mushroom <i>Pholiota squarrosa</i> . <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 33973-82	5.4	79
210	Engineering of mucin-type human glycoproteins in yeast cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 3232-7	11.5	77
209	Regulated expression and effect of galectin-1 on <i>Trypanosoma cruzi</i> -infected macrophages: modulation of microbicidal activity and survival. <i>Infection and Immunity</i> , <b>2001</b> , 69, 6804-12	3.7	77

208	Functional analysis of the carbohydrate recognition domains and a linker peptide of galectin-9 as to eosinophil chemoattractant activity. <i>Glycobiology</i> , <b>2002</b> , 12, 191-7	5.8	77
207	Human placenta beta-galactoside-binding lectin. Purification and some properties. <i>Biochemical and Biophysical Research Communications</i> , <b>1984</b> , 122, 938-44	3.4	75
206	Wisteria floribunda agglutinin-positive mucin 1 is a sensitive biliary marker for human cholangiocarcinoma. <i>Hepatology</i> , <b>2010</b> , 52, 174-82	11.2	74
205	Phylogenetic and specificity studies of two-domain GNA-related lectins: generation of multispecificity through domain duplication and divergent evolution. <i>Biochemical Journal</i> , <b>2007</b> , 404, 51-61	3.8	73
204	Separation technologies for glycomics. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2002</b> , 771, 67-87	3.2	73
203	The function of rhamnose-binding lectin in innate immunity by restricted binding to Gb3. <i>Developmental and Comparative Immunology</i> , <b>2009</b> , 33, 187-97	3.2	72
202	Complete amino acid sequence of a beta-galactoside-binding lectin from human placenta. <i>Journal of Biochemistry</i> , <b>1988</b> , 104, 1-4	3.1	72
201	Human Milk Oligosaccharides as Essential Tools for Basic and Application Studies on Galectins. <i>Trends in Glycoscience and Glycotechnology</i> , <b>2018</b> , 30, SE51-SE65	0.1	72
200	Systematic comparison of oligosaccharide specificity of Ricinus communis agglutinin I and Erythrina lectins: a search by frontal affinity chromatography. <i>Journal of Biochemistry</i> , <b>2007</b> , 142, 459-69	3.1	71
199	Glycome project: concept, strategy and preliminary application to Caenorhabditis elegans. <i>Proteomics</i> , <b>2001</b> , 1, 295-303	4.8	70
198	Lectin microarray analysis of pluripotent and multipotent stem cells. <i>Genes To Cells</i> , <b>2011</b> , 16, 1-11	2.3	69
197	Structural analysis of the human galectin-9 N-terminal carbohydrate recognition domain reveals unexpected properties that differ from the mouse orthologue. <i>Journal of Molecular Biology</i> , <b>2008</b> , 375, 119-35	6.5	69
196	Sugar binding properties of the two lectin domains of the tandem repeat-type galectin LEC-1 (N32) of Caenorhabditis elegans. Detailed analysis by an improved frontal affinity chromatography method. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 3068-77	5.4	69
195	Structural and quantitative evidence for dynamic glycome shift on production of induced pluripotent stem cells. <i>Molecular and Cellular Proteomics</i> , <b>2012</b> , 11, 1913-23	7.6	68
194	Expression of endogenous galectin-1 and galectin-3 in intrahepatic cholangiocarcinoma. <i>Human Pathology</i> , <b>2001</b> , 32, 302-10	3.7	67
193	An exo-beta-1,3-galactanase having a novel beta-1,3-galactan-binding module from Phanerochaete chrysosporium. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 25820-9	5.4	66
192	Lectin-based structural glycomics: a practical approach to complex glycans. <i>Electrophoresis</i> , <b>2011</b> , 32, 1118-28	3.6	64
191	Mechanism by which the lectin actinohivin blocks HIV infection of target cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 15633-8	11.5	63

190	Strategy for glycoproteomics: identification of glyco-alteration using multiple glycan profiling tools. <i>Journal of Proteome Research</i> , <b>2009</b> , 8, 1358-67	5.6	63
189	Production of a recombinant mouse monoclonal antibody in transgenic silkworm cocoons. <i>FEBS Journal</i> , <b>2009</b> , 276, 5806-20	5.7	62
188	Dual specificity of Langerin to sulfated and mannosylated glycans via a single C-type carbohydrate recognition domain. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 6390-400	5.4	61
187	Multilectin assay for detecting fibrosis-specific glyco-alteration by means of lectin microarray. <i>Clinical Chemistry</i> , <b>2011</b> , 57, 48-56	5.5	61
186	Application of lectin microarray to crude samples: differential glycan profiling of lec mutants. <i>Journal of Biochemistry</i> , <b>2006</b> , 139, 323-7	3.1	60
185	Oligosaccharide microarrays for glycomics. <i>Trends in Biotechnology</i> , <b>2003</b> , 21, 141-3; discussion 143	15.1	60
184	Comparative analysis of carbohydrate-binding properties of two tandem repeat-type Jacalin-related lectins, <i>Castanea crenata</i> agglutinin and <i>Cycas revoluta</i> leaf lectin. <i>FEBS Journal</i> , <b>2005</b> , 272, 2784-99	5.7	60
183	Novel galactose-binding proteins in Annelida. Characterization of 29-kDa tandem repeat-type lectins from the earthworm <i>Lumbricus terrestris</i> . <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 14450-60	5.4	60
182	The sugar-binding ability of human OS-9 and its involvement in ER-associated degradation. <i>Glycobiology</i> , <b>2010</b> , 20, 310-21	5.8	59
181	Galectin-1 induces chemokine production and proliferation in pancreatic stellate cells. <i>American Journal of Physiology - Renal Physiology</i> , <b>2006</b> , 290, G729-36	5.1	59
180	Affinity capturing and gene assignment of soluble glycoproteins produced by the nematode <i>Caenorhabditis elegans</i> . <i>Journal of Biochemistry</i> , <b>2002</b> , 132, 103-14	3.1	59
179	Development of an all-in-one technology for glycan profiling targeting formalin-embedded tissue sections. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 370, 259-63	3.4	58
178	Functional and structural bases of a cysteine-less mutant as a long-lasting substitute for galectin-1. <i>Glycobiology</i> , <b>2008</b> , 18, 1065-73	5.8	58
177	Reinforcement of frontal affinity chromatography for effective analysis of lectin-oligosaccharide interactions. <i>Journal of Chromatography A</i> , <b>2000</b> , 890, 261-71	4.5	58
176	Podocalyxin is a glycoprotein ligand of the human pluripotent stem cell-specific probe rBC2LCN. <i>Stem Cells Translational Medicine</i> , <b>2013</b> , 2, 265-73	6.9	57
175	Isolation and characterization of l-rhamnose-binding lectin, which binds to microsporidian <i>Glugea plecoglossi</i> , from ayu ( <i>Plecoglossus altivelis</i> ) eggs. <i>Developmental and Comparative Immunology</i> , <b>2008</b> , 32, 487-99	3.2	56
174	Isolation, characterization and molecular evolution of a novel pearl shell lectin from a marine bivalve, <i>Pteria penguin</i> . <i>Molecular Diversity</i> , <b>2006</b> , 10, 607-18	3.1	55
173	Galectin-1 induces astrocyte differentiation, which leads to production of brain-derived neurotrophic factor. <i>Glycobiology</i> , <b>2004</b> , 14, 357-63	5.8	55

172	rBC2LCN, a new probe for live cell imaging of human pluripotent stem cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2013</b> , 431, 524-9	3.4	53
171	Optimization of evanescent-field fluorescence-assisted lectin microarray for high-sensitivity detection of monovalent oligosaccharides and glycoproteins. <i>Proteomics</i> , <b>2008</b> , 8, 3042-50	4.8	51
170	Purification and molecular characterization of a novel 16-kDa galectin from the nematode <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 2497-505	5.4	51
169	Tailoring a novel sialic acid-binding lectin from a ricin-B chain-like galactose-binding protein by natural evolution-mimicry. <i>Journal of Biochemistry</i> , <b>2007</b> , 141, 389-99	3.1	49
168	Identification and cloning of rat galectin-2: expression is predominantly in epithelial cells of the stomach. <i>Archives of Biochemistry and Biophysics</i> , <b>1999</b> , 361, 195-201	4.1	48
167	<i>Caenorhabditis elegans</i> galectins LEC-1-LEC-11: structural features and sugar-binding properties. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2008</b> , 1780, 1131-42	4	47
166	Comparative analysis by frontal affinity chromatography of oligosaccharide specificity of GlcNAc-binding lectins, <i>Griffonia simplicifolia</i> lectin-II (GSL-II) and <i>Boletopsis leucomelas</i> lectin (BLL). <i>Journal of Biochemistry</i> , <b>2006</b> , 140, 285-91	3.1	46
165	Glycoproteomic discovery of serological biomarker candidates for HCV/HBV infection-associated liver fibrosis and hepatocellular carcinoma. <i>Journal of Proteome Research</i> , <b>2013</b> , 12, 2630-40	5.6	45
164	<i>Caenorhabditis elegans</i> N-glycans containing a Gal-Fuc disaccharide unit linked to the innermost GlcNAc residue are recognized by <i>C. elegans</i> galectin LEC-6. <i>Glycobiology</i> , <b>2008</b> , 18, 882-90	5.8	45
163	Evidence that <i>Agaricus bisporus</i> agglutinin (ABA) has dual sugar-binding specificity. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 347, 215-20	3.4	45
162	Production and purification of a recombinant human 14 kDa beta-galactoside-binding lectin. <i>FEBS Letters</i> , <b>1989</b> , 250, 161-5	3.8	45
161	Comparative analysis of oligosaccharide specificities of fucose-specific lectins from <i>Aspergillus oryzae</i> and <i>Aleuria aurantia</i> using frontal affinity chromatography. <i>Analytical Biochemistry</i> , <b>2009</b> , 386, 217-21	3.1	43
160	Application of reinforced frontal affinity chromatography and advanced processing procedure to the study of the binding property of a <i>Caenorhabditis elegans</i> galectin. <i>Journal of Chromatography A</i> , <b>2001</b> , 905, 337-43	4.5	43
159	Role of malectin in Glc(2)Man(9)GlcNAc(2)-dependent quality control of $\alpha$ -antitrypsin. <i>Molecular Biology of the Cell</i> , <b>2011</b> , 22, 3559-70	3.5	42
158	Beta3GnT2 (B3GNT2), a major polylectosamine synthase: analysis of B3GNT2-deficient mice. <i>Methods in Enzymology</i> , <b>2010</b> , 479, 185-204	1.7	41
157	Directed evolution of lectins with sugar-binding specificity for 6-sulfo-galactose. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 20313-20	5.4	41
156	Mannose-binding lectin from yam ( <i>Dioscorea batatas</i> ) tubers with insecticidal properties against <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae). <i>Journal of Agricultural and Food Chemistry</i> , <b>2009</b> , 57, 2896-902	5.7	40
155	Analysis of the sugar-binding specificity of mannose-binding-type Jacalin-related lectins by frontal affinity chromatography--an approach to functional classification. <i>FEBS Journal</i> , <b>2008</b> , 275, 1227-39	5.7	40

154	Further evidence by site-directed mutagenesis that conserved hydrophilic residues form a carbohydrate-binding site of human galectin-1. <i>Glycoconjugate Journal</i> , <b>1994</b> , 11, 437-42	3	40
153	The family 42 carbohydrate-binding module of family 54 alpha-L-arabinofuranosidase specifically binds the arabinofuranose side chain of hemicellulose. <i>Biochemical Journal</i> , <b>2006</b> , 399, 503-11	3.8	39
152	Novel carbohydrate specificity of the 16-kDa galectin from <i>Caenorhabditis elegans</i> : binding to blood group precursor oligosaccharides (type 1, type 2, Talpha, and Tbeta) and gangliosides. <i>Glycobiology</i> , <b>2002</b> , 12, 451-61	5.8	39
151	Carbohydrate-binding domain of the POMGnT1 stem region modulates O-mannosylation sites of Edystroglycan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 9280-5	11.5	38
150	Glycoproteomics-based cancer marker discovery adopting dual enrichment with Wisteria floribunda agglutinin for high specific glyco-diagnosis of cholangiocarcinoma. <i>Journal of Proteomics</i> , <b>2013</b> , 85, 1-11	3.9	38
149	Cloning and nucleotide sequence of a full-length cDNA for human 14 kDa beta-galactoside-binding lectin. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , <b>1989</b> , 1008, 85-91		38
148	The Lectin Frontier Database (LfDB), and data generation based on frontal affinity chromatography. <i>Molecules</i> , <b>2015</b> , 20, 951-73	4.8	37
147	A versatile technology for cellular glycomics using lectin microarray. <i>Methods in Enzymology</i> , <b>2010</b> , 478, 181-95	1.7	37
146	Isolation, purification, characterization and glycan-binding profile of a d-galactoside specific lectin from the marine sponge, <i>Halichondria okadai</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2008</b> , 150, 349-57	2.3	37
145	Apical Golgi localization of N,N'-diacetyllactosidamine synthase, beta4GalNAc-T3, is responsible for LacdiNAc expression on gastric mucosa. <i>Glycobiology</i> , <b>2006</b> , 16, 777-85	5.8	37
144	Carbohydrate-recognition domains of galectin-9 are involved in intermolecular interaction with galectin-9 itself and other members of the galectin family. <i>Glycobiology</i> , <b>2007</b> , 17, 423-32	5.8	37
143	Sugar-Binding Profiles of Chitin-Binding Lectins from the Hevein Family: A Comprehensive Study. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	36
142	Lectin microarray reveals binding profiles of <i>Lactobacillus casei</i> strains in a comprehensive analysis of bacterial cell wall polysaccharides. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 4539-46	4.8	36
141	Development of a lectin microarray based on an evanescent-field fluorescence principle. <i>Methods in Enzymology</i> , <b>2006</b> , 415, 341-51	1.7	36
140	Fragmentations of isomeric sulfated monosaccharides using electrospray ion trap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2005</b> , 19, 1788-96	2.2	36
139	Lectin engineering, a molecular evolutionary approach to expanding the lectin utilities. <i>Molecules</i> , <b>2015</b> , 20, 7637-56	4.8	35
138	Characterization of an exo-beta-1,3-galactanase from <i>Clostridium thermocellum</i> . <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 3515-23	4.8	35
137	Carbohydrate-Binding Specificity of Human Galectins: An Overview by Frontal Affinity Chromatography. <i>Trends in Glycoscience and Glycotechnology</i> , <b>2018</b> , 30, SE137-SE153	0.1	35

136	Lectin structures: classification based on the 3-D structures. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1200, 579-606	1.4	34
135	Purification and characterization of beta-galactoside-binding proteins from <i>Caenorhabditis elegans</i> . <i>Journal of Biochemistry</i> , <b>1992</b> , 111, 553-5	3.1	33
134	Human ZG16p recognizes pathogenic fungi through non-self polyvalent mannose in the digestive system. <i>Glycobiology</i> , <b>2012</b> , 22, 210-20	5.8	32
133	Enrichment strategies for glycopeptides. <i>Methods in Molecular Biology</i> , <b>2009</b> , 534, 195-203	1.4	32
132	Development and Applications of the Lectin Microarray. <i>Topics in Current Chemistry</i> , <b>2015</b> , 367, 105-24		31
131	Frontal affinity chromatography analysis of constructs of DC-SIGN, DC-SIGNR and LSECtin extend evidence for affinity to agalactosylated N-glycans. <i>FEBS Journal</i> , <b>2010</b> , 277, 4010-26	5.7	31
130	A Novel Therapeutic Strategy for Pancreatic Cancer: Targeting Cell Surface Glycan Using rBC2LC-N Lectin-Drug Conjugate (LDC). <i>Molecular Cancer Therapeutics</i> , <b>2018</b> , 17, 183-195	6.1	30
129	Desulfated galactosaminoglycans are potential ligands for galectins: evidence from frontal affinity chromatography. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 373, 206-12	3.4	30
128	Mannose-specific lectin from the mushroom <i>Hygrophorus russula</i> . <i>Glycobiology</i> , <b>2012</b> , 22, 616-29	5.8	29
127	High-throughput analysis of lectin-oligosaccharide interactions by automated frontal affinity chromatography. <i>Methods in Enzymology</i> , <b>2006</b> , 415, 311-25	1.7	29
126	Identification, Characterization, and X-ray Crystallographic Analysis of a Novel Type of Mannose-Specific Lectin CGL1 from the Pacific Oyster <i>Crassostrea gigas</i> . <i>Scientific Reports</i> , <b>2016</b> , 6, 29135	4.9	29
125	Development of a Data-mining System for Differential Profiling of Cell Glycoproteins Based on Lectin Microarray. <i>Journal of Proteomics and Bioinformatics</i> , <b>2008</b> , 01, 068-072	2.1	28
124	A practical approach to N-glycan production by hydrazinolysis using hydrazine monohydrate. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 362, 639-45	3.4	27
123	An immunohistochemical study of the 32-kDa galectin (beta-galactoside-binding lectin) in the nematode <i>Caenorhabditis elegans</i> . <i>The Histochemical Journal</i> , <b>1996</b> , 28, 201-7		27
122	Lectin microarray technology identifies specific lectins related to lymph node metastasis of advanced gastric cancer. <i>Gastric Cancer</i> , <b>2016</b> , 19, 531-542	7.6	26
121	Lect-Hepa: A triplex lectin-antibody sandwich immunoassay for estimating the progression dynamics of liver fibrosis assisted by a bedside clinical chemistry analyzer and an automated pretreatment machine. <i>Clinica Chimica Acta</i> , <b>2011</b> , 412, 1767-72	6.2	26
120	Engineering of the glycan-binding specificity of <i>Agrocybe cylindracea</i> galectin towards (2,3)-linked sialic acid by saturation mutagenesis. <i>Journal of Biochemistry</i> , <b>2011</b> , 150, 545-52	3.1	26
119	Further characterization and structural studies on human placenta lectin. <i>Journal of Biochemistry</i> , <b>1987</b> , 101, 987-95	3.1	26



118	Tailoring GalNAc $\beta$ 1-3Gal $\beta$ specific lectins from a multi-specific fungal galectin: dramatic change of carbohydrate specificity by a single amino-acid substitution. <i>Biochemical Journal</i> , <b>2013</b> , 453, 261-70	3.8	25
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