

Jun Hirabayashi

List of Publications by Year in descending order

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243
papers

14,907
citations

16451

64
h-index

22166

113
g-index

247
all docs

247
docs citations

247
times ranked

11494
citing authors

#	ARTICLE	IF	CITATIONS
1	Galectins: A family of animal β -galactoside-binding lectins. <i>Cell</i> , 1994, 76, 597-598.	28.9	1,150
2	Oligosaccharide specificity of galectins: a search by frontal affinity chromatography. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2002, 1572, 232-254.	2.4	811
3	Lectin affinity capture, isotope-coded tagging and mass spectrometry to identify N-linked glycoproteins. <i>Nature Biotechnology</i> , 2003, 21, 667-672.	17.5	637
4	The family of metazoan metal-independent β -galactoside-binding lectins: structure, function and molecular evolution. <i>Glycobiology</i> , 1993, 3, 297-304.	2.5	496
5	Evanescent-field fluorescence-assisted lectin microarray: a new strategy for glycan profiling. <i>Nature Methods</i> , 2005, 2, 851-856.	19.0	481
6	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> , 2009, 106, 1897-1902.	7.1	367
7	Recombinant Galectin-1 and Its Genetic Delivery Suppress Collagen-Induced Arthritis via T Cell Apoptosis. <i>Journal of Experimental Medicine</i> , 1999, 190, 385-398.	8.5	332
8	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> , 2004, 343, 957-970.	4.2	277
9	Galectin-3 Interaction with Thomsen-Friedenreich Disaccharide on Cancer-associated MUC1 Causes Increased Cancer Cell Endothelial Adhesion. <i>Journal of Biological Chemistry</i> , 2007, 282, 773-781.	3.4	255
10	Lectin microarrays: concept, principle and applications. <i>Chemical Society Reviews</i> , 2013, 42, 4443.	38.1	254
11	Lectin-based structural glycomics: Glycoproteomics and glycan profiling. <i>Glycoconjugate Journal</i> , 2004, 21, 35-40.	2.7	220
12	Visualization of Galectin-3 Oligomerization on the Surface of Neutrophils and Endothelial Cells Using Fluorescence Resonance Energy Transfer. <i>Journal of Biological Chemistry</i> , 2007, 282, 1374-1383.	3.4	198
13	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> , 2006, 349, 1301-1307.	2.1	195
14	Glycome Diagnosis of Human Induced Pluripotent Stem Cells Using Lectin Microarray. <i>Journal of Biological Chemistry</i> , 2011, 286, 20345-20353.	3.4	185
15	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> , 2008, 181, 7660-7669.	0.8	181
16	Galectin-1 Suppresses Autoimmune Retinal Disease by Promoting Concomitant Th2- and T Regulatory-Mediated Anti-Inflammatory Responses. <i>Journal of Immunology</i> , 2006, 176, 6323-6332.	0.8	180
17	A novel strategy for mammalian cell surface glycome profiling using lectin microarray. <i>Glycobiology</i> , 2007, 17, 1138-1146.	2.5	165
18	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> , 2005, 174, 4120-4126.	0.8	157

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19	A Novel Biological Activity for Galectin-1. <i>American Journal of Pathology</i> , 2003, 163, 1505-1515.	3.8	153
20	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> , 2003, 278, 18938-18944.	3.4	130
21	Frontal affinity chromatography: sugar-protein interactions. <i>Nature Protocols</i> , 2007, 2, 2529-2537.	12.0	126
22	Concept, Strategy and Realization of Lectin-based Glycan Profiling. <i>Journal of Biochemistry</i> , 2008, 144, 139-147.	1.7	124
23	Glycoconjugate microarray based on an evanescent-field fluorescence-assisted detection principle for investigation of glycan-binding proteins. <i>Glycobiology</i> , 2008, 18, 789-798.	2.5	124
24	Comparative analysis of core-fucose-binding lectins from <i>Lens culinaris</i> and <i>Pisum sativum</i> using frontal affinity chromatography. <i>Glycobiology</i> , 2009, 19, 527-536.	2.5	117
25	Human Milk Oligosaccharides as Essential Tools for Basic and Application Studies on Galectins. <i>Trends in Glycoscience and Glycotechnology</i> , 2018, 30, SE51-SE65.	0.1	114
26	Elucidation of binding specificity of Jacalin toward O-glycosylated peptides: quantitative analysis by frontal affinity chromatography. <i>Glycobiology</i> , 2006, 16, 46-53.	2.5	103
27	Specific Recognition of <i>Leishmania major</i> Poly- β -galactosyl Epitopes by Galectin-9. <i>Journal of Biological Chemistry</i> , 2003, 278, 22223-22230.	3.4	102
28	Focused Differential Glycan Analysis with the Platform Antibody-assisted Lectin Profiling for Glycan-related Biomarker Verification. <i>Molecular and Cellular Proteomics</i> , 2009, 8, 99-108.	3.8	102
29	Nucleotide sequence of chick 14K β -galactoside-binding lectin mRNA. <i>Biochemical and Biophysical Research Communications</i> , 1986, 134, 51-56.	2.1	101
30	Poly-lactosamine 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> , 2007, 104, 15829-15834.	7.1	101
31	A Novel Core Fucose-specific Lectin from the Mushroom <i>Pholiota squarrosa</i> . <i>Journal of Biological Chemistry</i> , 2012, 287, 33973-33982.	3.4	101
32	Functional glycosylation of human podoplanin: Glycan structure of platelet aggregation-inducing factor. <i>FEBS Letters</i> , 2007, 581, 331-336.	2.8	96
33	Elimination of Tumorigenic Human Pluripotent Stem Cells by a Recombinant Lectin-Toxin Fusion Protein. <i>Stem Cell Reports</i> , 2015, 4, 811-820.	4.8	94
34	<i>Wisteria floribunda</i> agglutinin-positive mucin 1 is a sensitive biliary marker for human cholangiocarcinoma. <i>Hepatology</i> , 2010, 52, 174-182.	7.3	92
35	Frontal Affinity Chromatography as a Tool for Elucidation of Sugar Recognition Properties of Lectins. <i>Methods in Enzymology</i> , 2003, 362, 353-368.	1.0	89
36	Engineering of mucin-type human glycoproteins in yeast cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 3232-3237.	7.1	86

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37	Glycome project: Concept, strategy and preliminary application to <i>Caenorhabditis elegans</i> . <i>Proteomics</i> , 2001, 1, 295-303.	2.2	84
38	Structural and Quantitative Evidence for Dynamic Glycome Shift on Production of Induced Pluripotent Stem Cells. <i>Molecular and Cellular Proteomics</i> , 2012, 11, 1913-1923.	3.8	84
39	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> , 2001, 69, 6804-6812.	2.2	83
40	Functional analysis of the carbohydrate recognition domains and a linker peptide of galectin-9 as to eosinophil chemoattractant activity. <i>Glycobiology</i> , 2002, 12, 191-197.	2.5	83
41	The function of rhamnose-binding lectin in innate immunity by restricted binding to Gb3. <i>Developmental and Comparative Immunology</i> , 2009, 33, 187-197.	2.3	83
42	Human placenta β -galactoside-binding lectin. Purification and some properties. <i>Biochemical and Biophysical Research Communications</i> , 1984, 122, 938-944.	2.1	81
43	Complete Amino Acid Sequence of a β -Galactoside-Binding Lectin from Human Placenta. <i>Journal of Biochemistry</i> , 1988, 104, 1-4.	1.7	81
44	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> , 2008, 375, 119-135.	4.2	80
45	Novel Galactose-binding Proteins in Annelida. <i>Journal of Biological Chemistry</i> , 1998, 273, 14450-14460.	3.4	79
46	Separation technologies for glycomics. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002, 771, 67-87.	2.3	79
47	An Exo- β -1,3-galactanase Having a Novel β -1,3-Galactan-binding Module from <i>Phanerochaete chrysosporium</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 25820-25829.	3.4	79
48	Production of a recombinant mouse monoclonal antibody in transgenic silkworm cocoons. <i>FEBS Journal</i> , 2009, 276, 5806-5820.	4.7	78
49	Phylogenetic and specificity studies of two-domain GNA-related lectins: generation of multispecificity through domain duplication and divergent evolution. <i>Biochemical Journal</i> , 2007, 404, 51-61.	3.7	77
50	Lectin microarray analysis of pluripotent and multipotent stem cells. <i>Genes To Cells</i> , 2011, 16, 1-11.	1.2	77
51	Expression of endogenous galectin-1 and galectin-3 in intrahepatic cholangiocarcinoma. <i>Human Pathology</i> , 2001, 32, 302-310.	2.0	76
52	Sugar Binding Properties of the Two Lectin Domains of the Tandem Repeat-type Galectin LEC-1 (N32) of <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 3068-3077.	3.4	76
53	Systematic Comparison of Oligosaccharide Specificity of <i>Ricinus communis</i> Agglutinin I and <i>Erythrina</i> Lectins: a Search by Frontal Affinity Chromatography. <i>Journal of Biochemistry</i> , 2007, 142, 459-469.	1.7	76
54	Dual Specificity of Langerin to Sulfated and Mannosylated Glycans via a Single C-type Carbohydrate Recognition Domain. <i>Journal of Biological Chemistry</i> , 2010, 285, 6390-6400.	3.4	76

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55	Lectin-based structural glycomics: A practical approach to complex glycans. <i>Electrophoresis</i> , 2011, 32, 1118-1128.	2.4	71
56	Galectin-1 induces chemokine production and proliferation in pancreatic stellate cells. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 290, G729-G736.	3.4	70
57	Strategy for Glycoproteomics: Identification of Glyco-Alteration Using Multiple Glycan Profiling Tools. <i>Journal of Proteome Research</i> , 2009, 8, 1358-1367.	3.7	70
58	Podocalyxin Is a Glycoprotein Ligand of the Human Pluripotent Stem Cell-Specific Probe rBC2LCN. <i>Stem Cells Translational Medicine</i> , 2013, 2, 265-273.	3.3	70
59	Reinforcement of frontal affinity chromatography for effective analysis of lectin-oligosaccharide interactions. <i>Journal of Chromatography A</i> , 2000, 890, 261-271.	3.7	68
60	Functional and structural bases of a cysteine-less mutant as a long-lasting substitute for galectin-1. <i>Glycobiology</i> , 2008, 18, 1065-1073.	2.5	68
61	Multilectin Assay for Detecting Fibrosis-Specific Glyco-Alteration by Means of Lectin Microarray. <i>Clinical Chemistry</i> , 2011, 57, 48-56.	3.2	68
62	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> , 2009, 106, 15633-15638.	7.1	67
63	Affinity Capturing and Gene Assignment of Soluble Glycoproteins Produced by the Nematode <i>Caenorhabditis elegans</i> . <i>Journal of Biochemistry</i> , 2002, 132, 103-114.	1.7	66
64	Development of an all-in-one technology for glycan profiling targeting formalin-embedded tissue sections. <i>Biochemical and Biophysical Research Communications</i> , 2008, 370, 259-263.	2.1	66
65	Oligosaccharide microarrays for glycomics. <i>Trends in Biotechnology</i> , 2003, 21, 141-143.	9.3	65
66	Application of Lectin Microarray to Crude Samples: Differential Glycan Profiling of Lec Mutants. <i>Journal of Biochemistry</i> , 2006, 139, 323-327.	1.7	64
67	Galectin-1 induces astrocyte differentiation, which leads to production of brain-derived neurotrophic factor. <i>Glycobiology</i> , 2004, 14, 357-363.	2.5	63
68	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> , 2005, 272, 2784-2799.	4.7	63
69	rBC2LCN, a new probe for live cell imaging of human pluripotent stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2013, 431, 524-529.	2.1	63
70	Isolation, characterization and molecular evolution of a novel pearl shell lectin from a marine bivalve, <i>Pteria penguin</i> . <i>Molecular Diversity</i> , 2006, 10, 607-618.	3.9	62
71	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> , 2008, 32, 487-499.	2.3	61
72	The sugar-binding ability of human OS-9 and its involvement in ER-associated degradation. <i>Glycobiology</i> , 2010, 20, 310-321.	2.5	61

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73	Purification and Molecular Characterization of a Novel 16-kDa Galectin from the Nematode <i>Caenorhabditis elegans</i> . <i>Journal of Biological Chemistry</i> , 1996, 271, 2497-2505.	3.4	60
74	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> , 2006, 141, 389-399.	1.7	60
75	Carbohydrate-binding domain of the POMGnT1 stem region modulates <i>O</i> -mannosylation sites of β -dystroglycan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 9280-9285.	7.1	59
76	Sugar-Binding Profiles of Chitin-Binding Lectins from the Hevein Family: A Comprehensive Study. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1160.	4.1	59
77	The Lectin Frontier Database (LfDB), and Data Generation Based on Frontal Affinity Chromatography. <i>Molecules</i> , 2015, 20, 951-973.	3.8	56
78	Identification and Cloning of Rat Galectin-2: Expression Is Predominantly in Epithelial Cells of the Stomach. <i>Archives of Biochemistry and Biophysics</i> , 1999, 361, 195-201.	3.0	54
79	Optimization of evanescent-field fluorescence-assisted lectin microarray for high-sensitivity detection of monovalent oligosaccharides and glycoproteins. <i>Proteomics</i> , 2008, 8, 3042-3050.	2.2	53
80	Glycoproteomic Discovery of Serological Biomarker Candidates for HCV/HBV Infection-Associated Liver Fibrosis and Hepatocellular Carcinoma. <i>Journal of Proteome Research</i> , 2013, 12, 2630-2640.	3.7	52
81	Production and purification of a recombinant human 14 kDa β -galactoside-binding lectin. <i>FEBS Letters</i> , 1989, 250, 161-165.	2.8	51
82	<i>Caenorhabditis elegans</i> galectins LEC-1 and LEC-11: Structural features and sugar-binding properties. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 1131-1142.	2.4	51
83	Comparative Analysis by Frontal Affinity Chromatography of Oligosaccharide Specificity of GlcNAc-Binding Lectins, <i>Criffonia simplicifolia</i> Lectin-II (GSL-II) and <i>Boletopsis leucomelas</i> Lectin (BLL). <i>Journal of Biochemistry</i> , 2006, 140, 285-291.	1.7	50
84	β 3GnT2 (B3GNT2), a Major Polylectosamine Synthase: Analysis of B3gnt2-Deficient Mice. <i>Methods in Enzymology</i> , 2010, 479, 185-204.	1.0	50
85	Further evidence by site-directed mutagenesis that conserved hydrophilic residues form a carbohydrate-binding site of human galectin-1. <i>Glycoconjugate Journal</i> , 1994, 11, 437-442.	2.7	49
86	Evidence that <i>Agaricus bisporus</i> agglutinin (ABA) has dual sugar-binding specificity. <i>Biochemical and Biophysical Research Communications</i> , 2006, 347, 215-220.	2.1	49
87	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> , 2009, 386, 217-221.	2.4	48
88	Cloning and nucleotide sequence of a full-length cDNA for human 14 kDa β -galactoside-binding lectin. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1989, 1008, 85-91.	2.4	46
89	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> , 2001, 905, 337-343.	3.7	46
90	<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> , 2008, 18, 882-890.	2.5	46

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91	Role of malectin in Glc ₂ Man ₉ GlcNAc ₂ -dependent quality control of Î±1-antitrypsin. <i>Molecular Biology of the Cell</i> , 2011, 22, 3559-3570.	2.1	46
92	Glycoproteomics-based cancer marker discovery adopting dual enrichment with Wisteria floribunda agglutinin for high specific glyco-diagnosis of cholangiocarcinoma. <i>Journal of Proteomics</i> , 2013, 85, 1-11.	2.4	46
93	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> , 2007, 17, 423-432.	2.5	45
94	Directed Evolution of Lectins with Sugar-binding Specificity for 6-Sulfo-galactose. <i>Journal of Biological Chemistry</i> , 2012, 287, 20313-20320.	3.4	45
95	Lectin Structures: Classification Based on the 3-D Structures. <i>Methods in Molecular Biology</i> , 2014, 1200, 579-606.	0.9	45
96	A Novel Therapeutic Strategy for Pancreatic Cancer: Targeting Cell Surface Glycan Using rBC2LC-N Lectin-Drug Conjugate (LDC). <i>Molecular Cancer Therapeutics</i> , 2018, 17, 183-195.	4.1	45
97	The family 42 carbohydrate-binding module of family 54 Î±-L-arabinofuranosidase specifically binds the arabinofuranose side chain of hemicellulose. <i>Biochemical Journal</i> , 2006, 399, 503-511.	3.7	44
98	Carbohydrate-Binding Specificity of Human Galectins: An Overview by Frontal Affinity Chromatography. <i>Trends in Glycoscience and Glycotechnology</i> , 2018, 30, SE137-SE153.	0.1	44
99	Apical Golgi localization of N,N'-diacetyl-lactosylamine synthase, Î²4GalNAc-T3, is responsible for LacdiNAc expression on gastric mucosa. <i>Glycobiology</i> , 2006, 16, 777-785.	2.5	43
100	Characterization of an Exo-Î²-1,3-Galactanase from <i>Clostridium thermocellum</i> . <i>Applied and Environmental Microbiology</i> , 2006, 72, 3515-3523.	3.1	43
101	Isolation, purification, characterization and glycan-binding profile of a d-galactoside specific lectin from the marine sponge, <i>Halichondria okadaï</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2008, 150, 349-357.	1.6	43
102	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> , 2009, 57, 2896-2902.	5.2	43
103	A Versatile Technology for Cellular Glycomics Using Lectin Microarray. <i>Methods in Enzymology</i> , 2010, 478, 181-195.	1.0	43
104	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> , 2011, 77, 4539-4546.	3.1	43
105	Development and Applications of the Lectin Microarray. <i>Topics in Current Chemistry</i> , 2014, 367, 105-124.	4.0	42
106	Lectin Engineering, a Molecular Evolutionary Approach to Expanding the Lectin Utilities. <i>Molecules</i> , 2015, 20, 7637-7656.	3.8	42
107	Fragmentations of isomeric sulfated monosaccharides using electrospray ion trap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 1788-1796.	1.5	41
108	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> , 2008, 275, 1227-1239.	4.7	41

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109	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> , 2016, 6, 29135.	3.3	41
110	Development of a Lectin Microarray Based on an Evanescent-Field Fluorescence Principle. <i>Methods in Enzymology</i> , 2006, 415, 341-351.	1.0	40
111	Novel carbohydrate specificity of the 16-kDa galectin from <i>Caenorhabditis elegans</i> : binding to blood group precursor oligosaccharides (type 1, type 2, T _A , and T _B) and gangliosides. <i>Glycobiology</i> , 2002, 12, 451-461.	2.5	39
112	Desulfated galactosaminoglycans are potential ligands for galectins: Evidence from frontal affinity chromatography. <i>Biochemical and Biophysical Research Communications</i> , 2008, 373, 206-212.	2.1	38
113	Enrichment Strategies for Glycopeptides. , 2009, 534, 194-203.		38
114	Purification and Characterization of ¹²⁵ I-Galactoside-Binding Proteins from <i>Caenorhabditis elegans</i> . <i>Journal of Biochemistry</i> , 1992, 111, 553-555.	1.7	35
115	Human ZG16p recognizes pathogenic fungi through non-self polyvalent mannose in the digestive system. <i>Glycobiology</i> , 2012, 22, 210-220.	2.5	35
116	Lectin engineering: the possible and the actual. <i>Interface Focus</i> , 2019, 9, 20180068.	3.0	35
117	Development of a Data-mining System for Differential Profiling of Cell Glycoproteins Based on Lectin Microarray. <i>Journal of Proteomics and Bioinformatics</i> , 2008, 01, 068-072.	0.4	35
118	A practical approach to N-glycan production by hydrazinolysis using hydrazine monohydrate. <i>Biochemical and Biophysical Research Communications</i> , 2007, 362, 639-645.	2.1	34
119	Engineering of recombinant <i>Wisteria floribunda</i> agglutinin specifically binding to GalNAc ¹ 2,4GlcNAc (LacdiNAc). <i>Glycobiology</i> , 2017, 27, 743-754.	2.5	34
120	Molecular characterization and oligosaccharide-binding properties of a galectin from the argasid tick <i>Ornithodoros moubata</i> . <i>Glycobiology</i> , 2007, 17, 313-323.	2.5	33
121	Lectin microarray technology identifies specific lectins related to lymph node metastasis of advanced gastric cancer. <i>Gastric Cancer</i> , 2016, 19, 531-542.	5.3	33
122	High-Throughput Analysis of Lectin-Oligosaccharide Interactions by Automated Frontal Affinity Chromatography. <i>Methods in Enzymology</i> , 2006, 415, 311-325.	1.0	32
123	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> , 2010, 277, 4010-4026.	4.7	32
124	The Gal ¹ 2-(syn)-gauche configuration is required for galectin-recognition disaccharides. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2011, 1810, 643-651.	2.4	32
125	A medium hyperglycosylated podocalyxin enables noninvasive and quantitative detection of tumorigenic human pluripotent stem cells. <i>Scientific Reports</i> , 2014, 4, 4069.	3.3	32
126	Mannose-specific lectin from the mushroom <i>Hygrophorus russula</i> . <i>Glycobiology</i> , 2012, 22, 616-629.	2.5	31

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127	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> , 2011, 412, 1767-1772.	1.1	30
128	Engineering of the glycan-binding specificity of <i>Agrocybe cylindracea</i> galectin towards $\alpha(2,3)$ -linked sialic acid by saturation mutagenesis. <i>Journal of Biochemistry</i> , 2011, 150, 545-552.	1.7	30
129	Tailoring GalNAc α 1-3Gal β 2-specific lectins from a multi-specific fungal galectin: dramatic change of carbohydrate specificity by a single amino-acid substitution. <i>Biochemical Journal</i> , 2013, 453, 261-270.	3.7	30
130	Glycomics, Coming of Age!. <i>Trends in Glycoscience and Glycotechnology</i> , 2000, 12, 1-5.	0.1	29
131	Distinguishing functional exosomes and other extracellular vesicles as a nucleic acid cargo by the anion-exchange method. <i>Journal of Extracellular Vesicles</i> , 2022, 11, e12205.	12.2	29
132	Further Characterization and Structural Studies on Human Placenta Lectin1. <i>Journal of Biochemistry</i> , 1987, 101, 987-995.	1.7	28
133	Dissociation of the carbohydrate-binding and splicing activities of galectin-1. <i>Archives of Biochemistry and Biophysics</i> , 2008, 478, 18-25.	3.0	28
134	Expression of galectin-1, a new component of slit diaphragm, is altered in minimal change nephrotic syndrome. <i>Laboratory Investigation</i> , 2009, 89, 178-195.	3.7	28
135	Difference in Fine Specificity to Polysaccharides of <i>Candida albicans</i> Mannoprotein between Mouse SIGNR1 and Human DC-SIGN. <i>Infection and Immunity</i> , 2012, 80, 1699-1706.	2.2	28
136	An immunohistochemical study of the 32-kDa galectin (β 2-galactoside-binding lectin) in the nematode <i>Caenorhabditis elegans</i> . <i>The Histochemical Journal</i> , 1996, 28, 201-207.	0.6	27
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