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	Distinguishing functional exosomes and other extracellular vesicles as a nucleic acid cargo by the anionâ€exchange method. Journal of Extracellular Vesicles, 2022, 11, e12205.	12.2	29
2	Development of Urinary Diagnostic Biomarker for IgA Nephropathy by Lectin Microarray. American Journal of Nephrology, 2022, 53, 10-20.	3.1	1
3	Transformation of Galectin into Î±GalNAc-Specific Lectin. Methods in Molecular Biology, 2022, 2442, 233-245.	0.9	0
4	Human Milk Oligosaccharides and Innate Immunity. , 2021, , 389-439.		13
5	Frontal affinity chromatography: A unique approach for weak interaction analysis targeting lectins and oligosaccharides. , 2021, , 279-309.		0
6	DCIR and its ligand asialo-biantennary N-glycan regulate DC function and osteoclastogenesis. Journal of Experimental Medicine, 2021, 218, .	8.5	14
7	A technique for removing tumourigenic pluripotent stem cells using rBC2LCN lectin. Regenerative Therapy, 2020, 14, 306-314.	3.0	8
8	Preparation and Detection of Glycan-Binding Activity of Influenza Virus. Methods in Molecular Biology, 2020, 2132, 567-583.	0.9	3
9	Glycan Binding Profiling of Jacalin-Related Lectins from the Pteria Penguin Pearl Shell. International Journal of Molecular Sciences, 2019, 20, 4629.	4.1	4
10	Lectin engineering: the possible and the actual. Interface Focus, 2019, 9, 20180068.	3.0	35
11	Fucose-specific lectin ofAspergillus fumigatus: binding properties and effects on immune response stimulation. Medical Mycology, 2019, 57, 71-83.	0.7	8
12	Glycoengineering. , 2019, , 145-166.		0
13	A Novel Therapeutic Strategy for Pancreatic Cancer: Targeting Cell Surface Glycan Using rBC2LC-N Lectinâ€“Drug Conjugate (LDC). Molecular Cancer Therapeutics, 2018, 17, 183-195.	4.1	45
14	Human Milk Oligosaccharides as Essential Tools for Basic and Application Studies on Galectins. Trends in Glycoscience and Glycotechnology, 2018, 30, SE51-SE65.	0.1	114
15	Carbohydrate-Binding Specificity of Human Galectins: An Overview by Frontal Affinity Chromatography. Trends in Glycoscience and Glycotechnology, 2018, 30, SE137-SE153.	0.1	44
16	Carbohydrate Recognition Mechanism of the Mushroom Galectin ACG. Trends in Glycoscience and Glycotechnology, 2018, 30, SJ33-SJ46.	0.1	8
17	Carbohydrate-Binding Specificity of Human Galectins: An Overview by Frontal Affinity Chromatography. Trends in Glycoscience and Glycotechnology, 2018, 30, SJ65-SJ81.	0.1	0
18	Structural and quantitative evidence of Î±2â€“6-sialylated N-glycans as markers of the differentiation potential of human mesenchymal stem cells. Glycoconjugate Journal, 2017, 34, 797-806.	2.7	18

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19	Development of a practical sandwich assay to detect human pluripotent stem cells using cell culture media. Regenerative Therapy, 2017, 6, 1-8.	3.0	7
20	Carbohydrate recognition by the rhamnoseâ€binding lectin SULâ€I with a novel threeâ€domain structure isolated from the venom of globiferous pedicellariae of the flower sea urchin Toxopneustes pileolus. Protein Science, 2017, 26, 1574-1583.	7.6	22
21	Lectin microarray analysis of isolated polysaccharides from Sasa veitchii. Bioscience, Biotechnology and Biochemistry, 2017, 81, 1687-1689.	1.3	1
22	Development of a Sensitive Microarray Platform for the Ranking of Galectin Inhibitors: Identification of a Selective Galectinâ€3 Inhibitor. ChemBioChem, 2017, 18, 2428-2440.	2.6	16
23	Engineering of recombinant Wisteria floribunda agglutinin specifically binding to GalNAcÎ²1,4GlcNAc (LacdiNAc). Glycobiology, 2017, 27, 743-754.	2.5	34
24	Isolation of Rice Bran Lectins and Characterization of Their Unique Behavior in Caco-2 Cells. International Journal of Molecular Sciences, 2017, 18, 1052.	4.1	12
25	Sugar-Binding Profiles of Chitin-Binding Lectins from the Hevein Family: A Comprehensive Study. International Journal of Molecular Sciences, 2017, 18, 1160.	4.1	59
26	<scp>NMR</scp> analysis on the sialic acidâ€binding mechanism of an Râ€type lectin mutant by natural evolutionâ€mimicry. FEBS Letters, 2016, 590, 1720-1728.	2.8	1
27	Identification, Characterization and X-ray Crystallographic Analysis of a Novel Type of Mannose-Specific Lectin CGL1 from the Pacific Oyster Crassostrea gigas. Scientific Reports, 2016, 6, 29135.	3.3	41
28	A rationally engineered yeast pyruvyltransferase Pvg1p introduces sialylation-like properties in neo-human-type complex oligosaccharide. Scientific Reports, 2016, 6, 26349.	3.3	16
29	Identification of the cysteine residue responsible for oxidative inactivation of mouse galectin-2. Journal of Biochemistry, 2016, 160, 233-241.	1.7	14
30	Î±2â€“6 sialylation is a marker of the differentiation potential of human mesenchymal stem cells. Glycobiology, 2016, 26, cww039.	2.5	15
31	Carbohydrate-binding domain of the POMGnT1 stem region modulates O -mannosylation sites of Î±-dystroglycan. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9280-9285.	7.1	59
32	Two carbohydrate recognizing domains fromCycas revolutaleaf lectin show the distinct sugar-binding specificityâ€”A unique mannooligosaccharide recognition by N-terminal domain. Journal of Biochemistry, 2016, 160, 27-35.	1.7	5
33	Preparation of Glycan Arrays Using Pyridylaminated Glycans. Methods in Molecular Biology, 2016, 1368, 225-235.	0.9	9
34	Lectin microarray technology identifies specific lectins related to lymph node metastasis of advanced gastric cancer. Gastric Cancer, 2016, 19, 531-542.	5.3	33
35	Mammalian Cell Surface Display as a Novel Method for Developing Engineered Lectins with Novel Characteristics. Biomolecules, 2015, 5, 1540-1562.	4.0	18
36	Isolation and Biochemical Characterization of Apios Tuber Lectin. Molecules, 2015, 20, 987-1002.	3.8	21

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37	Mutated Leguminous Lectin Containing a Heparin-Binding like Motif in a Carbohydrate-Binding Loop Specifically Binds to Heparin. PLoS ONE, 2015, 10, e0145834.	2.5	8
38	Engineering of a 3â€²-sulpho-GalÎ²1-4GlcNAc-specific probe by a single amino acid substitution of a fungal galectin. Journal of Biochemistry, 2015, 157, 197-200.	1.7	8
39	Elimination of Tumorigenic Human Pluripotent Stem Cells by a Recombinant Lectin-Toxin Fusion Protein. Stem Cell Reports, 2015, 4, 811-820.	4.8	94
40	A C-type lectin isolated from the skin of Japanese bullhead shark (Heterodontus japonicus) binds a remarkably broad range of sugars and induces blood coagulation. Journal of Biochemistry, 2015, 157, 345-356.	1.7	19
41	S-nitrosylation of mouse galectin-2 prevents oxidative inactivation by hydrogen peroxide. Biochemical and Biophysical Research Communications, 2015, 457, 712-717.	2.1	22
42	Lectin Engineering, a Molecular Evolutionary Approach to Expanding the Lectin Utilities. Molecules, 2015, 20, 7637-7656.	3.8	42
43	The Lectin Frontier Database (LfDB), and Data Generation Based on Frontal Affinity Chromatography. Molecules, 2015, 20, 951-973.	3.8	56
44	A Novel Probe as Surface Glycan Marker of Pluripotent Stem Cells: Research Outcomes and Application to Regenerative Medicine. Advanced Healthcare Materials, 2015, 4, 2520-2529.	7.6	7
45	Mannose-recognition mutant of the galactose/N-acetylgalactosamine-specific C-type lectin CEL-I engineered by site-directed mutagenesis. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 1457-1465.	2.4	8
46	Discovery and Applications of a Novel Human Pluripotent Stem Cell-Specific Lectin Probe rBC2LCN. , 2015, , 95-106.		0
47	Evaluation of Galectin Binding by Frontal Affinity Chromatography (FAC). Methods in Molecular Biology, 2015, 1207, 63-74.	0.9	2
48	Historical and Practical Aspects of Development of Lectin Microarray Technique Lectin microarray. , 2015, , 53-60.		0
49	The Cellular Glycome of Human Induced Pluripotent Stem Cells and Their Specific Probe rBC2LCN. Trends in Glycoscience and Glycotechnology, 2014, 26, 1-10.	0.1	1
50	Lectin Structures: Classification Based on the 3-D Structures. Methods in Molecular Biology, 2014, 1200, 579-606.	0.9	45
51	Molecular Clock Regulates Daily Î±1â€“2-Fucosylation of the Neural Cell Adhesion Molecule (NCAM) within Mouse Secondary Olfactory Neurons. Journal of Biological Chemistry, 2014, 289, 36158-36165.	3.4	4
52	Development and Applications of the Lectin Microarray. Topics in Current Chemistry, 2014, 367, 105-124.	4.0	42
53	Two jacalin-related lectins from seeds of the African breadfruit (Treculia africana L.). Bioscience, Biotechnology and Biochemistry, 2014, 78, 2036-2044.	1.3	2
54	A medium hyperglycosylated podocalyxin enables noninvasive and quantitative detection of tumorigenic human pluripotent stem cells. Scientific Reports, 2014, 4, 4069.	3.3	32

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55	Lectin-Based Glycomics: How and When Was the Technology Born?. Methods in Molecular Biology, 2014, 1200, 225-242.	0.9	16
56	Differential Glycan Analysis of an Endogenous Glycoprotein: Toward Clinical Implementationâ€"From Sample Pretreatment to Data Standardization. Methods in Molecular Biology, 2014, 1200, 265-285.	0.9	8
57	Application of Lectin Microarray to Bacteria Including Lactobacillus casei/paracasei Strains. Methods in Molecular Biology, 2014, 1200, 295-311.	0.9	5
58	Directed Evolution of Lectins by an Improved Error-Prone PCR and Ribosome Display Method. Methods in Molecular Biology, 2014, 1200, 527-538.	0.9	7
59	Comprehensive List of Lectins: Origins, Natures, and Carbohydrate Specificities. Methods in Molecular Biology, 2014, 1200, 555-577.	0.9	23
60	Development of lectin microarray, an advanced system for glycan profiling. Synthesiology, 2014, 7, 105-117.	0.2	2
61	Development of lectin microarray, an advanced system for glycan profiling. Synthesiology, 2014, 7, 105-117.	0.2	1
62	Possible involvement of glycolipids in lectin-mediated cellular transformation of symbiotic microalgae in corals. Journal of Experimental Marine Biology and Ecology, 2013, 439, 129-135.	1.5	18
63	Domain composition of rhamnose-binding lectin from shishamo smelt eggs and its carbohydrate-binding profiles. Fish Physiology and Biochemistry, 2013, 39, 1619-1630.	2.3	20
64	Tailoring GalNAcÎ±1-3GalÎ²-specific lectins from a multi-specific fungal galectin: dramatic change of carbohydrate specificity by a single amino-acid substitution. Biochemical Journal, 2013, 453, 261-270.	3.7	30
65	Glycoproteomics-based cancer marker discovery adopting dual enrichment with Wisteria floribunda agglutinin for high specific glyco-diagnosis of cholangiocarcinoma. Journal of Proteomics, 2013, 85, 1-11.	2.4	46
66	Conformational change of a unique sequence in a fungal galectin from Agrocybe cylindracea controls glycan ligandâ€binding specificity. FEBS Letters, 2013, 587, 3620-3625.	2.8	18
67	rBC2LCN, a new probe for live cell imaging of human pluripotent stem cells. Biochemical and Biophysical Research Communications, 2013, 431, 524-529.	2.1	63
68	Glycoproteomic Discovery of Serological Biomarker Candidates for HCV/HBV Infection-Associated Liver Fibrosis and Hepatocellular Carcinoma. Journal of Proteome Research, 2013, 12, 2630-2640.	3.7	52
69	<scp>NMR</scp> structure and dynamics of the <scp>C</scp>â€terminal domain of <scp>R</scp>â€type lectin from the earthworm <scp>L</scp>umbricusÂterrestris. FEBS Journal, 2013, 280, 70-82.	4.7	7
70	Lectin microarrays: concept, principle and applications. Chemical Society Reviews, 2013, 42, 4443.	38.1	254
71	Mammalian galectins bind GalactoseÎ²1â€"4Fucose disaccharide, a unique structural component of protostomial N-type glycoproteins. Biochemical and Biophysical Research Communications, 2013, 436, 509-513.	2.1	16
72	Analysis of O-Glycans as 9-Fluorenylmethyl Derivatives and Its Application to the Studies on Glycan Array. Analytical Chemistry, 2013, 85, 3325-3333.	6.5	24

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73	Generation of monoclonal antibodies against the GalÂ1-4Gal epitope: A key tool in studies of species-specific glycans expressed in fish, amphibians and birds. Glycobiology, 2013, 23, 91-105.	2.5	7
74	Podocalyxin Is a Glycoprotein Ligand of the Human Pluripotent Stem Cell-Specific Probe rBC2LCN. Stem Cells Translational Medicine, 2013, 2, 265-273.	3.3	70
75	A Lectin-Based Glycomic Approach to Identify Characteristic Features of Xenopus Embryogenesis. PLoS ONE, 2013, 8, e56581.	2.5	6
76	Terminal N-Acetylgalactosamine-Specific Leguminous Lectin from Wisteria japonica as a Probe for Human Lung Squamous Cell Carcinoma. PLoS ONE, 2013, 8, e83886.	2.5	16
77	Human ZG16p recognizes pathogenic fungi through non-self polyvalent mannose in the digestive system. Glycobiology, 2012, 22, 210-220.	2.5	35
78	A Novel Core Fucose-specific Lectin from the Mushroom Pholiota squarrosa. Journal of Biological Chemistry, 2012, 287, 33973-33982.	3.4	101
79	Structural and Quantitative Evidence for Dynamic Glycome Shift on Production of Induced Pluripotent Stem Cells. Molecular and Cellular Proteomics, 2012, 11, 1913-1923.	3.8	84
80	Difference in Fine Specificity to Polysaccharides of Candida albicans Mannoprotein between Mouse SIGNR1 and Human DC-SIGN. Infection and Immunity, 2012, 80, 1699-1706.	2.2	28
81	Purification, Characterization, and Molecular Cloning of Lectin from Winter Buds ofLysichiton camtschatcensis(L.) Schott. Bioscience, Biotechnology and Biochemistry, 2012, 76, 25-33.	1.3	4
82	Directed Evolution of Lectins with Sugar-binding Specificity for 6-Sulfo-galactose. Journal of Biological Chemistry, 2012, 287, 20313-20320.	3.4	45
83	Characterization and cloning of GNA-like lectin from the mushroom Marasmius oreades. Glycoconjugate Journal, 2012, 29, 457-465.	2.7	19
84	Mannose-specific lectin from the mushroom Hygrophorus russula. Glycobiology, 2012, 22, 616-629.	2.5	31
85	LecT-Hepa: A triplex lectinâ€“antibody sandwich immunoassay for estimating the progression dynamics of liver fibrosis assisted by a bedside clinical chemistry analyzer and an automated pretreatment machine. Clinica Chimica Acta, 2011, 412, 1767-1772.	1.1	30
86	The GalÎ²-(syn)-gauche configuration is required for galectin-recognition disaccharides. Biochimica Et Biophysica Acta - General Subjects, 2011, 1810, 643-651.	2.4	32
87	Lectin microarray analysis of pluripotent and multipotent stem cells. Genes To Cells, 2011, 16, 1-11.	1.2	77
88	Possible linkages between the inner and outer cellular states of human induced pluripotent stem cells. BMC Systems Biology, 2011, 5, S17.	3.0	24
89	Lectinâ€based structural glycomics: A practical approach to complex glycans. Electrophoresis, 2011, 32, 1118-1128.	2.4	71
90	Multilectin Assay for Detecting Fibrosis-Specific Glyco-Alteration by Means of Lectin Microarray. Clinical Chemistry, 2011, 57, 48-56.	3.2	68

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91	Lectin Microarray Reveals Binding Profiles of Lactobacillus casei Strains in a Comprehensive Analysis of Bacterial Cell Wall Polysaccharides. Applied and Environmental Microbiology, 2011, 77, 4539-4546.	3.1	43
92	Role of malectin in Glc₂Man₉GlcNAc₂-dependent quality control of Î±1-antitrypsin. Molecular Biology of the Cell, 2011, 22, 3559-3570.	2.1	46
93	Engineering of the glycan-binding specificity of Agrocybe cylindracea galectin towards Î±(2,3)-linked sialic acid by saturation mutagenesis. Journal of Biochemistry, 2011, 150, 545-552.	1.7	30
94	Galactose Recognition by a Tetrameric C-type Lectin, CEL-IV, Containing the EPN Carbohydrate Recognition Motif. Journal of Biological Chemistry, 2011, 286, 10305-10315.	3.4	22
95	Profiling the Cell Surface Glycome of Five Fungi Using Lectin Microarray. Journal of Carbohydrate Chemistry, 2011, 30, 147-164.	1.1	4
96	Glycome Diagnosis of Human Induced Pluripotent Stem Cells Using Lectin Microarray. Journal of Biological Chemistry, 2011, 286, 20345-20353.	3.4	185
97	Toxic isolectins from the mushroom Boletus venenatus. Phytochemistry, 2010, 71, 648-657.	2.9	16
98	Wisteria floribunda agglutinin-positive mucin 1 is a sensitive biliary marker for human cholangiocarcinoma. Hepatology, 2010, 52, 174-182.	7.3	92
99	Regulation of adult neural progenitor cells by Galectinâ€1/Î²1 Integrin interaction. Journal of Neurochemistry, 2010, 113, 1516-1524.	3.9	26
100	Frontal affinity chromatography analysis of constructs of DCâ€SIGN, DCâ€SIGNR and LSECtin extend evidence for affinity to agalactosylated Nâ€glycans. FEBS Journal, 2010, 277, 4010-4026.	4.7	32
101	Chromatographic and Mass Spectrometric Techniques. , 2010, , 161-176.		1
102	The sugar-binding ability of human OS-9 and its involvement in ER-associated degradation. Glycobiology, 2010, 20, 310-321.	2.5	61
103	Dual Specificity of Langerin to Sulfated and Mannosylated Glycans via a Single C-type Carbohydrate Recognition Domain. Journal of Biological Chemistry, 2010, 285, 6390-6400.	3.4	76
104	Î²3GnT2 (B3GNT2), a Major Polylactosamine Synthase: Analysis of B3gnt2-Deficient Mice. Methods in Enzymology, 2010, 479, 185-204.	1.0	50
105	Differential Glycan Profiling by Lectin Microarray Targeting Tissue Specimens. Methods in Enzymology, 2010, 478, 165-179.	1.0	25
106	A Versatile Technology for Cellular Glycomics Using Lectin Microarray. Methods in Enzymology, 2010, 478, 181-195.	1.0	43
107	Human C21orf63 is a Heparin-binding Protein. Journal of Biochemistry, 2009, 146, 369-373.	1.7	13
108	C-type lectin Mincle is an activating receptor for pathogenic fungus,Malassezia. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 1897-1902.	7.1	367

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109	Mechanism by which the lectin actinohivin blocks HIV infection of target cells. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15633-15638.	7.1	67
110	Focused Differential Glycan Analysis with the Platform Antibody-assisted Lectin Profiling for Glycan-related Biomarker Verification. Molecular and Cellular Proteomics, 2009, 8, 99-108.	3.8	102
111	Comparative analysis of core-fucose-binding lectins from Lens culinaris and Pisum sativum using frontal affinity chromatography. Glycobiology, 2009, 19, 527-536.	2.5	117
112	Nâ€Terminal Specific Pointâ€Immobilization of Active Proteins by the Oneâ€Pot NEXTâ€A Method. ChemBioChem, 2009, 10, 2460-2464.	2.6	18
113	Sugar-complex structures of the C-half domain of the galactose-binding lectin EW29 from the earthwormLumbricus terrestris. Acta Crystallographica Section D: Biological Crystallography, 2009, 65, 49-57.	2.5	25
114	Expression of galectin-1, a new component of slit diaphragm, is altered in minimal change nephrotic syndrome. Laboratory Investigation, 2009, 89, 178-195.	3.7	28
115	Glycome 'fingerprints' provide definitive clues to HIV origins. Nature Chemical Biology, 2009, 5, 198-199.	8.0	11
116	NMR studies on the interaction of sugars with the Câ€terminal domain of an Râ€type lectin from the earthworm Lumbricusâ€ƒterrestris. FEBS Journal, 2009, 276, 2095-2105.	4.7	10
117	Production of a recombinant mouse monoclonal antibody in transgenic silkworm cocoons. FEBS Journal, 2009, 276, 5806-5820.	4.7	78
118	Development of a high-sensitivity chromatographic separation system for pyridylaminated aldopentoses and aldohexoses. Journal of Chromatography A, 2009, 1216, 5112-5115.	3.7	2
119	Comparative analysis of oligosaccharide specificities of fucose-specific lectins from Aspergillus oryzae and Aleuria aurantia using frontal affinity chromatography. Analytical Biochemistry, 2009, 386, 217-221.	2.4	48
120	Strategy for Glycoproteomics: Identification of Glyco-Alteration Using Multiple Glycan Profiling Tools. Journal of Proteome Research, 2009, 8, 1358-1367.	3.7	70
121	Mannose-Binding Lectin from Yam (Dioscorea batatas) Tubers with Insecticidal Properties againstHelicoverpa armigera(Lepidoptera: Noctuidae). Journal of Agricultural and Food Chemistry, 2009, 57, 2896-2902.	5.2	43
122	The function of rhamnose-binding lectin in innate immunity by restricted binding to Gb3. Developmental and Comparative Immunology, 2009, 33, 187-197.	2.3	83
123	Engineering a versatile tandem repeat-type Î±2-6sialic acid-binding lectin. Biochemical and Biophysical Research Communications, 2009, 384, 204-209.	2.1	26
124	Enrichment Strategies for Glycopeptides. , 2009, 534, 194-203.		38
125	Strict Binding Specificity of Small-Sized Lectins from the Red AlgaHypnea japonicafor Core (Î±1-6) FucosylatedN-Glycans. Bioscience, Biotechnology and Biochemistry, 2009, 73, 912-920.	1.3	20
126	Sequential synthesis of chondroitin oligosaccharides by immobilized chondroitin polymerase mutants. Glycoconjugate Journal, 2008, 25, 521-530.	2.7	27

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127	Optimization of evanescentâ€field fluorescenceâ€assisted lectin microarray for highâ€sensitivity detection of monovalent oligosaccharides and glycoproteins. Proteomics, 2008, 8, 3042-3050.	2.2	53
128	Analysis of the sugarâ€binding specificity of mannoseâ€bindingâ€type Jacalinâ€related lectins by frontal affinity chromatography â€“ an approach to functional classification. FEBS Journal, 2008, 275, 1227-1239.	4.7	41
129	Structural Analysis of the Human Galectin-9 N-terminal Carbohydrate Recognition Domain Reveals Unexpected Properties that Differ from the Mouse Orthologue. Journal of Molecular Biology, 2008, 375, 119-135.	4.2	80
130	Dissociation of the carbohydrate-binding and splicing activities of galectin-1. Archives of Biochemistry and Biophysics, 2008, 478, 18-25.	3.0	28
131	The amino acids involved in the distinct carbohydrate specificities between macrophage galactose-type C-type lectins 1 and 2 (CD301a and b) of mice. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 89-100.	2.4	27
132	Caenorhabditis elegans galectins LEC-1â€“LEC-11: Structural features and sugar-binding properties. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 1131-1142.	2.4	51
133	Development of an all-in-one technology for glycan profiling targeting formalin-embedded tissue sections. Biochemical and Biophysical Research Communications, 2008, 370, 259-263.	2.1	66
134	Desulfated galactosaminoglycans are potential ligands for galectins: Evidence from frontal affinity chromatography. Biochemical and Biophysical Research Communications, 2008, 373, 206-212.	2.1	38
135	A C-type lectin of Caenorhabditis elegans: Its sugar-binding property revealed by glycoconjugate microarray analysis. Biochemical and Biophysical Research Communications, 2008, 377, 303-306.	2.1	25
136	Isolation, purification, characterization and glycan-binding profile of a d-galactoside specific lectin from the marine sponge, Halichondria okadai. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2008, 150, 349-357.	1.6	43
137	Isolation and characterization of l-rhamnose-binding lectin, which binds to microsporidian Glugea plecoglossi, from ayu (Plecoglossus altivelis) eggs. Developmental and Comparative Immunology, 2008, 32, 487-499.	2.3	61
138	Concept, Strategy and Realization of Lectin-based Glycan Profiling. Journal of Biochemistry, 2008, 144, 139-147.	1.7	124
139	Galectin-9 Increases Tim-3+ Dendritic Cells and CD8+ T Cells and Enhances Antitumor Immunity via Galectin-9-Tim-3 Interactions. Journal of Immunology, 2008, 181, 7660-7669.	0.8	181
140	Engineering of mucin-type human glycoproteins in yeast cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3232-3237.	7.1	86
141	Functional and structural bases of a cysteine-less mutant as a long-lasting substitute for galectin-1. Glycobiology, 2008, 18, 1065-1073.	2.5	68
142	Caenorhabditis elegans N-glycans containing a Gal-Fuc disaccharide unit linked to the innermost GlcNAc residue are recognized by C. elegans galectin LEC-6. Glycobiology, 2008, 18, 882-890.	2.5	46
143	Glycoconjugate microarray based on an evanescent-field fluorescence-assisted detection principle for investigation of glycan-binding proteins. Glycobiology, 2008, 18, 789-798.	2.5	124
144	Crystallization and Preliminary X-Ray Crystallographic Analysis of Galectin LEC-1 from Caenorhabditis elegans. Protein and Peptide Letters, 2008, 15, 419-422.	0.9	3

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145	Lectin Microarray. , 2008, , 451-454.		1
146	Development of a Data-mining System for Differential Profiling of Cell Glycoproteins Based on Lectin Microarray. Journal of Proteomics and Bioinformatics, 2008, 01, 068-072.	0.4	35
147	A Novel Lectin-Affinity Database for Structural Glycomics. , 2008, , 432-434.		0
148	Polylactosamine on glycoproteins influences basal levels of lymphocyte and macrophage activation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15829-15834.	7.1	101
149	Molecular characterization and oligosaccharide-binding properties of a galectin from the argasid tick Ornithodoros moubata. Glycobiology, 2007, 17, 313-323.	2.5	33
150	Galectin-3 Interaction with Thomsen-Friedenreich Disaccharide on Cancer-associated MUC1 Causes Increased Cancer Cell Endothelial Adhesion. Journal of Biological Chemistry, 2007, 282, 773-781.	3.4	255
151	Carbohydrate-recognition domains of galectin-9 are involved in intermolecular interaction with galectin-9 itself and other members of the galectin family. Glycobiology, 2007, 17, 423-432.	2.5	45
152	Visualization of Galectin-3 Oligomerization on the Surface of Neutrophils and Endothelial Cells Using Fluorescence Resonance Energy Transfer. Journal of Biological Chemistry, 2007, 282, 1374-1383.	3.4	198
153	A novel strategy for mammalian cell surface glycome profiling using lectin microarray. Glycobiology, 2007, 17, 1138-1146.	2.5	165
154	A practical approach to N-glycan production by hydrazinolysis using hydrazine monohydrate. Biochemical and Biophysical Research Communications, 2007, 362, 639-645.	2.1	34
155	Functional glycosylation of human podoplanin: Glycan structure of platelet aggregation-inducing factor. FEBS Letters, 2007, 581, 331-336.	2.8	96
156	Systematic Comparison of Oligosaccharide Specificity of Ricinus communis Agglutinin I and Erythrina Lectins: a Search by Frontal Affinity Chromatography. Journal of Biochemistry, 2007, 142, 459-469.	1.7	76
157	Frontal affinity chromatography: sugarâ€“protein interactions. Nature Protocols, 2007, 2, 2529-2537.	12.0	126
158	Phylogenetic and specificity studies of two-domain GNA-related lectins: generation of multispecificity through domain duplication and divergent evolution. Biochemical Journal, 2007, 404, 51-61.	3.7	77
159	Diverse Sugar-Binding Specificities of Marine Invertebrate C-Type Lectins. Bioscience, Biotechnology and Biochemistry, 2007, 71, 513-519.	1.3	16
160	The Sclerotinia sclerotiorum agglutinin represents a novel family of fungal lectins remotely related to the Clostridium botulinum non-toxin haemagglutinin HA33/A. Glycoconjugate Journal, 2007, 24, 143-156.	2.7	15
161	Frontal Affinity Chromatography: Systematization for Quantitative Interaction Analysis Between Lectins and Glycans. , 2007, , 239-266.		5
162	Characterization of Isomeric Unsulfated Glycosaminoglycan Oligosaccharides by Mass Spectrometry/Mass Spectrometry. Journal of the Mass Spectrometry Society of Japan, 2007, 55, 1-6.	0.1	7

#	Article	IF	Citations
163	Multistage Mass Spectrometric Sequencing of Keratan Sulfate-Related Oligosaccharides. Analytical Chemistry, 2006, 78, 891-900.	6.5	19
164	Galectin-1 induces chemokine production and proliferation in pancreatic stellate cells. American Journal of Physiology - Renal Physiology, 2006, 290, G729-G736.	3.4	70
165	Evidence that Agaricus bisporus agglutinin (ABA) has dual sugar-binding specificity. Biochemical and Biophysical Research Communications, 2006, 347, 215-220.	2.1	49
166	Inhibition of tumor cell-induced platelet aggregation using a novel anti-podoplanin antibody reacting with its platelet-aggregation-stimulating domain. Biochemical and Biophysical Research Communications, 2006, 349, 1301-1307.	2.1	195
167	Acquisition of Structural Information on Glycosaminoglycans by Using Mass Spectrometry. Trends in Glycoscience and Glycotechnology, 2006, 18, 293-312.	0.1	6
168	The family 42 carbohydrate-binding module of family 54 Î±-L-arabinofuranosidase specifically binds the arabinofuranose side chain of hemicellulose. Biochemical Journal, 2006, 399, 503-511.	3.7	44
169	Systematic identification ofN-acetylheparosan oligosaccharides by tandem mass spectrometric fragmentation. Rapid Communications in Mass Spectrometry, 2006, 20, 267-274.	1.5	11
170	Microscale preparation of even- and odd-numbered N-acetylheparosan oligosaccharides. Carbohydrate Research, 2006, 341, 230-237.	2.3	14
171	Comparative Analysis by Frontal Affinity Chromatography of Oligosaccharide Specificity of GlcNAc-Binding Lectins, Griffonia simplicifolia Lectin-II (GSL-II) and Boletopsis leucomelas Lectin (BLL). Journal of Biochemistry, 2006, 140, 285-291.	1.7	50
172	Tailoring a Novel Sialic Acid-Binding Lectin from a Ricin-B Chain-like Galactose-Binding Protein by Natural Evolution-Mimicry. Journal of Biochemistry, 2006, 141, 389-399.	1.7	60
173	Isolation, characterization and molecular evolution of a novel pearl shell lectin from a marine bivalve, Pteria penguin. Molecular Diversity, 2006, 10, 607-618.	3.9	62
174	Apical Golgi localization of N,Nâ€²-diacetyllactosediamine synthase, Î²4GalNAc-T3, is responsible for LacdiNAc expression on gastric mucosa. Glycobiology, 2006, 16, 777-785.	2.5	43
175	Carbohydrate Specificity of Lectins fromBoletopsis leucomelasandAralia cordate. Bioscience, Biotechnology and Biochemistry, 2006, 70, 542-545.	1.3	13
176	Highâ€Throughput Analysis of Lectinâ€Oligosaccharide Interactions by Automated Frontal Affinity Chromatography. Methods in Enzymology, 2006, 415, 311-325.	1.0	32
177	Development of a Lectin Microarray Based on an Evanescentâ€Field Fluorescence Principle. Methods in Enzymology, 2006, 415, 341-351.	1.0	40
178	Application of Lectin Microarray to Crude Samples: Differential Glycan Profiling of Lec Mutants. Journal of Biochemistry, 2006, 139, 323-327.	1.7	64
179	Elucidation of binding specificity of Jacalin toward O-glycosylated peptides: quantitative analysis by frontal affinity chromatography. Glycobiology, 2006, 16, 46-53.	2.5	103
180	A Combined Strategy for Glycan Profiling: a Model Study with Pyridylaminated Oligosaccharides. Journal of Biochemistry, 2006, 140, 337-347.	1.7	10

#	Article	IF	Citations
181	Characterization of an Exo-Î²-1,3-Galactanase from Clostridium thermocellum. Applied and Environmental Microbiology, 2006, 72, 3515-3523.	3.1	43
182	Galectin-1 Suppresses Autoimmune Retinal Disease by Promoting Concomitant Th2- and T Regulatory-Mediated Anti-Inflammatory Responses. Journal of Immunology, 2006, 176, 6323-6332.	0.8	180
183	Evanescent-field fluorescence-assisted lectin microarray: a new strategy for glycan profiling. Nature Methods, 2005, 2, 851-856.	19.0	481
184	Comparative analysis of carbohydrate-binding properties of two tandem repeat-type Jacalin-related lectins, Castanea crenata agglutinin and Cycas revoluta leaf lectin. FEBS Journal, 2005, 272, 2784-2799.	4.7	63
185	Fragmentations of isomeric sulfated monosaccharides using electrospray ion trap mass spectrometry. Rapid Communications in Mass Spectrometry, 2005, 19, 1788-1796.	1.5	41
186	Xenopus galectin-VIIa binds N-glycans of members of the cortical granule lectin family (xCGL and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.5	14
187	Galectin-1 Acts as a Soluble Host Factor That Promotes HIV-1 Infectivity through Stabilization of Virus Attachment to Host Cells. Journal of Immunology, 2005, 174, 4120-4126.	0.8	157
188	An Exo-Î²-1,3-galactanase Having a Novel Î²-1,3-Galactan-bindingModule from Phanerochaetechrysosporium. Journal of Biological Chemistry, 2005, 280, 25820-25829.	3.4	79
189	Galectin-1 induces astrocyte differentiation, which leads to production of brain-derived neurotrophic factor. Glycobiology, 2004, 14, 357-363.	2.5	63
190	Lectin-based structural glycomics: Glycoproteomics and glycan profiling. Glycoconjugate Journal, 2004, 21, 35-40.	2.7	220
191	Letter to the editor: 1H, 13C, and 15N chemical shift assignment of the C-terminal 15 kDa domain of a novel galactose-binding protein from the earthworm Lumbricus terrestris. Journal of Biomolecular NMR, 2004, 30, 377-378.	2.8	8
192	Crystallization and preliminary X-ray crystallographic studies of the C-terminal domain of galactose-binding lectin EW29 from the earthwormLumbricus terrestris. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1895-1896.	2.5	6
193	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. Journal of Molecular Biology, 2004, 343, 957-970.	4.2	277
194	On the Origin of Glycome and Saccharide Recognition. Trends in Glycoscience and Glycotechnology, 2004, 16, 63-85.	0.1	14
195	Mission of Structural Glycomics.. Seibutsu Butsuri Kagaku, 2004, 48, 11-17.	0.1	0
196	Oligosaccharide microarrays for glycomics. Trends in Biotechnology, 2003, 21, 141-143.	9.3	65
197	Lectin affinity capture, isotope-coded tagging and mass spectrometry to identify N-linked glycoproteins. Nature Biotechnology, 2003, 21, 667-672.	17.5	637
198	A Novel Biological Activity for Galectin-1. American Journal of Pathology, 2003, 163, 1505-1515.	3.8	153

#	Article	IF	Citations
199	Stimulation of Proliferation of Rat Hepatic Stellate Cells by Galectin-1 and Galectin-3 through Different Intracellular Signaling Pathways. Journal of Biological Chemistry, 2003, 278, 18938-18944.	3.4	130
200	Specific Recognition of Leishmania major Poly-Î²-galactosyl Epitopes by Galectin-9. Journal of Biological Chemistry, 2003, 278, 22223-22230.	3.4	102
201	Frontal Affinity Chromatography as a Tool for Elucidation of Sugar Recognition Properties of Lectins. Methods in Enzymology, 2003, 362, 353-368.	1.0	89
202	Novel carbohydrate specificity of the 16-kDa galectin from Caenorhabditis elegans: binding to blood group precursor oligosaccharides (type 1, type 2, TÂ, and TÂ) and gangliosides. Glycobiology, 2002, 12, 451-461.	2.5	39
203	Affinity Capturing and Gene Assignment of Soluble Glycoproteins Produced by the Nematode Caenorhabditis elegans. Journal of Biochemistry, 2002, 132, 103-114.	1.7	66
204	Functional analysis of the carbohydrate recognition domains and a linker peptide of galectin-9 as to eosinophil chemoattractant activity. Glycobiology, 2002, 12, 191-197.	2.5	83
205	Oligosaccharide specificity of galectins: a search by frontal affinity chromatography. Biochimica Et Biophysica Acta - General Subjects, 2002, 1572, 232-254.	2.4	811
206	Separation technologies for glycomics. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 771, 67-87.	2.3	79
207	Determination of the affinity constants of recombinant human galectin-1 and -3 for simple saccharides by capillary affinophoresis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2002, 768, 199-210.	2.3	18
208	Glyco-catch method: A lectin affinity technique for glycoproteomics. Journal of Biomolecular Techniques, 2002, 13, 205-18.	1.5	18
209	Expression of endogenous galectin-1 and galectin-3 in intrahepatic cholangiocarcinoma. Human Pathology, 2001, 32, 302-310.	2.0	76
210	Effects of Substitution of Conserved Amino Acid Residues on the Sugar-Binding Property of the Tandem-Repeat 32-kDa Galectin of the Nematode Caenorhabditis elegans.. Biological and Pharmaceutical Bulletin, 2001, 24, 14-18.	1.4	4
211	Glycome project: Concept, strategy and preliminary application toCaenorhabditis elegans. Proteomics, 2001, 1, 295-303.	2.2	84
212	Application of reinforced frontal affinity chromatography and advanced processing procedure to the study of the binding property of a Caenorhabditis elegans galectin. Journal of Chromatography A, 2001, 905, 337-343.	3.7	46
213	Regulated Expression and Effect of Galectin-1 onTrypanosoma cruzi-Infected Macrophages: Modulation of Microbicidal Activity and Survival. Infection and Immunity, 2001, 69, 6804-6812.	2.2	83
214	Sugar Binding Properties of the Two Lectin Domains of the Tandem Repeat-type Galectin LEC-1 (N32) of Caenorhabditis elegans. Journal of Biological Chemistry, 2001, 276, 3068-3077.	3.4	76
215	Galectins from the Nematode Caenorhabditis elegans and Glycome Project.. Trends in Glycoscience and Glycotechnology, 2001, 13, 533-549.	0.1	12
216	Title is missing!. Trends in Glycoscience and Glycotechnology, 2001, 13, 555-556.	0.1	0

#	Article	IF	Citations
217	Preface to the Special Issue, â€œLower Organisms: Essential to Comparative Glycomicsâ€• Trends in Glycoscience and Glycotechnology, 2001, 13, 445-446.	0.1	0
218	Reinforcement of frontal affinity chromatography for effective analysis of lectinâ€“oligosaccharide interactions. Journal of Chromatography A, 2000, 890, 261-271.	3.7	68
219	Glycomics, Coming of Age!. Trends in Glycoscience and Glycotechnology, 2000, 12, 1-5.	0.1	29
220	Recombinant Galectin-1 and Its Genetic Delivery Suppress Collagen-Induced Arthritis via T Cell Apoptosis. Journal of Experimental Medicine, 1999, 190, 385-398.	8.5	332
221	Identification and Cloning of Rat Galectin-2: Expression Is Predominantly in Epithelial Cells of the Stomach. Archives of Biochemistry and Biophysics, 1999, 361, 195-201.	3.0	54
222	Mutations in Possible Glycosylation Genes, sqv-3,7 and 8, of C. elegans Cause Abnormal Vulval Formation.. Trends in Glycoscience and Glycotechnology, 1999, 11, 211-212.	0.1	3
223	Novel Galactose-binding Proteins in Annelida. Journal of Biological Chemistry, 1998, 273, 14450-14460.	3.4	79
224	Structure of the 32-kDa Galectin Gene of the NematodeCaenorhabditis elegans. Journal of Biological Chemistry, 1997, 272, 26669-26677.	3.4	25
225	Galectins from the Nematode Caenorhabditis elegans and the Genome Project.. Trends in Glycoscience and Glycotechnology, 1997, 9, 113-122.	0.1	12
226	Galectins Have Now Been Found in the Mushroom Coprinus cinereus. Trends in Glycoscience and Glycotechnology, 1997, 9, 181-182.	0.1	9
227	An immunohistochemical study of the 32-kDa galectin (Î²-galactoside-binding lectin) in the nematodeCaenorhabditis elegans. The Histochemical Journal, 1996, 28, 201-207.	0.6	27
228	Cell calcium signalling induced by endogenous lectin carbohydrate interaction in the Jurkat T cell line. Glycoconjugate Journal, 1996, 13, 99-105.	2.7	13
229	Purification and Molecular Characterization of a Novel 16-kDa Galectin from the Nematode Caenorhabditis elegans. Journal of Biological Chemistry, 1996, 271, 2497-2505.	3.4	60
230	Identification of 37-kDa Porcine .BETA.-Galactoside-binding Lectin Having a Tandem-repeat Structure(Galectin-4) as a Possible Adherens Junction Protein.. Trends in Glycoscience and Glycotechnology, 1995, 7, 73-75.	0.1	0
231	Expression of the endogenous 14-kDa ?-galactoside-binding lectin galectin in normal human skin. Cell and Tissue Research, 1995, 280, 1-10.	2.9	17
232	Further evidence by site-directed mutagenesis that conserved hydrophilic residues form a carbohydrate-binding site of human galectin-1. Glycoconjugate Journal, 1994, 11, 437-442.	2.7	49
233	Galectins: A family of animal Î²-galactoside-binding lectins. Cell, 1994, 76, 597-598.	28.9	1,150
234	The family of metazoan metal-independent Î²-galactoside-binding lectins: structure, function and molecular evolution. Glycobiology, 1993, 3, 297-304.	2.5	496

#	Article	IF	Citations
235	Purification and Characterization of Î²-Galactoside-Binding Proteins from Caenorhabditis elegans1. Journal of Biochemistry, 1992, 111, 553-555.	1.7	35
236	Carbohydrate-Binding Protein 35 Forms Functional Dimers Using a Conservative Cysteine Residue?. Trends in Glycoscience and Glycotechnology, 1992, 4, 218-220.	0.1	0
237	Specific isolation by anhydrotrypsin-agarose chromatography of a recombinant protein tagged with an affinity tail arginine at the C-terminus. Journal of Molecular Recognition, 1990, 3, 204-207.	2.1	6
238	Cloning and nucleotide sequence of a full-length cDNA for human 14 kDa Î²-galactoside-binding lectin. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1989, 1008, 85-91.	2.4	46
239	Production and purification of a recombinant human 14 kDa Î²-galactoside-binding lectin. FEBS Letters, 1989, 250, 161-165.	2.8	51
240	Complete Amino Acid Sequence of a Î²-Galactoside-Binding Lectin from Human Placenta1. Journal of Biochemistry, 1988, 104, 1-4.	1.7	81
241	Further Characterization and Structural Studies on Human Placenta Lectin1. Journal of Biochemistry, 1987, 101, 987-995.	1.7	28
242	Nucleotide sequence of chick 14K Î²-galactoside-binding lectin mRNA. Biochemical and Biophysical Research Communications, 1986, 134, 51-56.	2.1	101
243	Human placenta Î²-galactoside-binding lectin. Purification and some properties. Biochemical and Biophysical Research Communications, 1984, 122, 938-944.	2.1	81