Hiroaki Tateno

List of Publications by Year in Descending Order

159 papers	4,391 citations	37 h-index	61 g-index
169 ext. papers	5,025 ext. citations	5 avg, IF	5.33 L-index

#	Paper	IF	Citations
159	Assessment of Surface Glycan Diversity on Extracellular Vesicles by Lectin Microarray and Glycoengineering Strategies for Drug Delivery Applications.. *Small Methods*, **2022**, 6, e2100785	12.8	4
158	Evaluation of Glycan-Binding Specificity by Glycoconjugate Microarray with an Evanescent-Field Fluorescence Detection System.. *Methods in Molecular Biology*, **2022**, 2460, 25-32	1.4	0
157	Assessment of Surface Glycan Diversity on Extracellular Vesicles by Lectin Microarray and Glycoengineering Strategies for Drug Delivery Applications (Small Methods 2/2022). *Small Methods*, **2022**, 6, 2270015	12.8	
156	CD63-positive extracellular vesicles are potential diagnostic biomarkers of pancreatic ductal adenocarcinoma.. *BMC Gastroenterology*, **2022**, 22, 153	3	1
155	Distinguishing functional exosomes and other extracellular vesicles as a nucleic acid cargo by the anion-exchange method.. *Journal of Extracellular Vesicles*, **2022**, 11, e12205	16.4	5
154	scGR-seq: Integrated analysis of glycan and RNA in single cells.. *STAR Protocols*, **2022**, 3, 101179	1.4	1
153	A Novel Method of CD31-Combined ABO Carbohydrate Antigen Microarray Predicts Acute Antibody-Mediated Rejection in ABO-Incompatible Kidney Transplantation.. *Transplant International*, **2022**, 35, 10248	3	0
152	Glycan detecting tools developed from the Clostridium botulinum whole hemagglutinin complex. *Scientific Reports*, **2021**, 11, 21973	4.9	1
151	DCIR and its ligand asialo-biantennary N-glycan regulate DC function and osteoclastogenesis. *Journal of Experimental Medicine*, **2021**, 218,	16.6	1
150	Elimination of cells deviated from human induced pluripotent stem cells with a photoactivatable IR700-labelled antibody. *Biochemical and Biophysical Research Communications*, **2021**, 554, 13-18	3.4	
149	Carcinoembryonic antigen as a specific glycoprotein ligand of rBC2LCN lectin on pancreatic ductal adenocarcinoma cells. *Cancer Science*, **2021**, 112, 3722-3731	6.9	1
148	Quantitative structural analysis of glycans expressed within tumors derived from pancreatic cancer patient-derived xenograft mouse models. *Biochemical and Biophysical Research Communications*, **2021**, 534, 310-316	3.4	3
147	Platelet-derived extracellular vesicles are increased in sera of Alzheimer's disease patients, as revealed by Tim4-based assays. *FEBS Open Bio*, **2021**, 11, 741-752	2.7	1
146	Integrated analysis of glycan and RNA in single cells. *IScience*, **2021**, 24, 102882	6.1	8
145	A glycosaminoglycan microarray identifies the binding of SARS-CoV-2 spike protein to chondroitin sulfate E. *FEBS Letters*, **2021**, 595, 2341-2349	3.8	2
144	Transferrin Biosynthesized in the Brain Is a Novel Biomarker for Alzheimer's Disease. *Metabolites*, **2021**, 11,	5.6	4
143	Lectin drug conjugate therapy for colorectal cancer. *Cancer Science*, **2020**, 111, 4548-4557	6.9	3

142	Plasma and antibody glycomic biomarkers of time to HIV rebound and viral setpoint. *Aids*, **2020**, 34, 681-686	3.9	13
141	Sialylation and fucosylation modulate inflammasome-activating eIF2 Signaling and microbial translocation during HIV infection. *Mucosal Immunology*, **2020**, 13, 753-766	9.2	11
140	A technique for removing tumourigenic pluripotent stem cells using rBC2LCN lectin. *Regenerative Therapy*, **2020**, 14, 306-314	3.7	4
139	rBC2LCN lectin as a potential probe of early-stage HER2-positive breast carcinoma. *FEBS Open Bio*, **2020**, 10, 1056-1064	2.7	2
138	Novel Pancreatic Cancer Therapy Targeting Cell Surface Glycans by Liposomes Modified with rBC2LCN Lectin. *European Surgical Research*, **2020**, 61, 113-122	1.1	0
137	Oriented immobilization of rBC2LCN lectin for highly sensitive detection of human pluripotent stem cells using cell culture supernatants. *Journal of Bioscience and Bioengineering*, **2020**, 129, 215-222	3.3	1
136	Glycome profiling by lectin microarray reveals dynamic glycan alterations during epidermal stem cell aging. *Aging Cell*, **2020**, 19, e13190	9.9	7
135	Sialyl-Lewis Glycoantigen Is Enriched on Cells with Persistent HIV Transcription during Therapy. *Cell Reports*, **2020**, 32, 107991	10.6	7
134	SSEA-1-positive fibronectin is secreted by cells deviated from the undifferentiated state of human induced pluripotent stem cells. *Biochemical and Biophysical Research Communications*, **2020**, 529, 575-581	3.4	3
133	Monoclonal antibodies specific for podocalyxin expressed on human induced pluripotent stem cells. *Biochemical and Biophysical Research Communications*, **2020**, 532, 647-654	3.4	1
132	Interferon-□alters host glycosylation machinery during treated HIV infection. *EBioMedicine*, **2020**, 59, 102945	8.8	5
131	Expression and Purification of a Human Pluripotent Stem Cell-Specific Lectin Probe, rBC2LCN. *Methods in Molecular Biology*, **2020**, 2132, 453-461	1.4	1
130	Glycan Binding Profiling of Jacalin-Related Lectins from the Pearl Shell. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	1
129	Receptor-destroying enzyme (RDE) from modulates IgE activity and reduces the initiation of anaphylaxis. *Journal of Biological Chemistry*, **2019**, 294, 6659-6669	5.4	4
128	Structural basis for specific recognition of core fucosylation in N-glycans by Pholiota squarrosa lectin (PhoSL). *Glycobiology*, **2019**, 29, 576-587	5.8	4
127	Characterization and functional analysis of novel circulating NK cell sub-populations. *International Immunology*, **2019**, 31, 515-530	4.9	1
126	Photoactivable Elimination of Tumorigenic Human Induced Pluripotent Stem Cells by Using a Lectin-Doxorubicin Prodrug Conjugate. *ChemBioChem*, **2019**, 20, 1606-1611	3.8	3
125	Development of Lectin□Drug Conjugates for Elimination of Undifferentiated Cells and Cancer Therapy. *Trends in Glycoscience and Glycotechnology*, **2019**, 31, E121-E127	0.1	1

124	Glycoengineering **2019**, 145-166		
123	Human Stem Cell Glycome: From Structural Elucidation to Social Implementation. *Trends in Glycoscience and Glycotechnology*, **2019**, 31, SJ83-SJ84	0.1	
122	Human Stem Cell Glycome: From Structural Elucidation to Social Implementation. *Trends in Glycoscience and Glycotechnology*, **2019**, 31, SE83-SE84	0.1	
121	Development of LectinDrug Conjugates for Elimination of Undifferentiated Cells and Cancer Therapy. *Trends in Glycoscience and Glycotechnology*, **2019**, 31, J119-J125	0.1	
120	Clec10a regulates mite-induced dermatitis. *Science Immunology*, **2019**, 4,	28	9
119	Fucose-specific lectin of Aspergillus fumigatus: binding properties and effects on immune response stimulation. *Medical Mycology*, **2019**, 57, 71-83	3.9	4
118	Glycome analysis of extracellular vesicles derived from human induced pluripotent stem cells using lectin microarray. *Scientific Reports*, **2018**, 8, 3997	4.9	18
117	Investigation of Selective Recognition of Sugars Using Lectin-inspired Temperature-responsive Polymers. *Chemistry Letters*, **2018**, 47, 134-137	1.7	6
116	A Novel Therapeutic Strategy for Pancreatic Cancer: Targeting Cell Surface Glycan Using rBC2LC-N Lectin-Drug Conjugate (LDC). *Molecular Cancer Therapeutics*, **2018**, 17, 183-195	6.1	30
115	Identification, Characterization, and X-ray Crystallographic Analysis of a Novel Type of Lectin AJLec from the Sea Anemone Anthopleura japonica. *Scientific Reports*, **2018**, 8, 11516	4.9	5
114	Carbohydrate Recognition Mechanism of the Mushroom Galectin ACG. *Trends in Glycoscience and Glycotechnology*, **2018**, 30, SJ33-SJ46	0.1	7
113	Carbohydrate Recognition Mechanism of the Mushroom Galectin ACG. *Trends in Glycoscience and Glycotechnology*, **2018**, 30, SE75-SE88	0.1	2
112	Evaluation of the quality of antibody drugs and cell therapy products using lectin microarray **2018**, 62, 27-30		
111	Reduced fucosylation in the distal intestinal epithelium of mice subjected to chronic social defeat stress. *Scientific Reports*, **2018**, 8, 13199	4.9	3
110	The trimeric solution structure and fucose-binding mechanism of the core fucosylation-specific lectin PhoSL. *Scientific Reports*, **2018**, 8, 7740	4.9	6
109	Structural and quantitative evidence of 2-6-sialylated N-glycans as markers of the differentiation potential of human mesenchymal stem cells. *Glycoconjugate Journal*, **2017**, 34, 797-806	3	13
108	Development of a practical sandwich assay to detect human pluripotent stem cells using cell culture media. *Regenerative Therapy*, **2017**, 6, 1-8	3.7	5
107	Carbohydrate recognition by the rhamnose-binding lectin SUL-I with a novel three-domain structure isolated from the venom of globiferous pedicellariae of the flower sea urchin Toxopneustes pileolus. *Protein Science*, **2017**, 26, 1574-1583	6.3	12

106	Lectin microarray analysis of isolated polysaccharides from Sasa veitchii. *Bioscience, Biotechnology and Biochemistry*, **2017**, 81, 1687-1689	2.1	1
105	Distinct roles for each N-glycan branch interacting with mannose-binding type Jacalin-related lectins Orysata and Calsepa. *Glycobiology*, **2017**, 27, 1120-1133	5.8	15
104	Development of a Sensitive Microarray Platform for the Ranking of Galectin Inhibitors: Identification of a Selective Galectin-3 Inhibitor. *ChemBioChem*, **2017**, 18, 2428-2440	3.8	15
103	Engineering of a Potent Recombinant Lectin-Toxin Fusion Protein to Eliminate Human Pluripotent Stem Cells. *Molecules*, **2017**, 22,	4.8	14
102	Engineering of recombinant Wisteria floribunda agglutinin specifically binding to GalNAcβ1,4GlcNAc (LacdiNAc). *Glycobiology*, **2017**, 27, 743-754	5.8	21
101	Isolation of Rice Bran Lectins and Characterization of Their Unique Behavior in Caco-2 Cells. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	5
100	Sugar-Binding Profiles of Chitin-Binding Lectins from the Hevein Family: A Comprehensive Study. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	36
99	Carbohydrate-binding domain of the POMGnT1 stem region modulates O-mannosylation sites of α-dystroglycan. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 9280-5	11.5	38
98	Generation of a monoclonal antibody recognizing the CEACAM glycan structure and inhibiting adhesion using cancer tissue-originated spheroid as an antigen. *Scientific Reports*, **2016**, 6, 24823	4.9	7
97	Two carbohydrate recognizing domains from Cycas revoluta leaf lectin show the distinct sugar-binding specificity-A unique mannooligosaccharide recognition by N-terminal domain. *Journal of Biochemistry*, **2016**, 160, 27-35	3.1	5
96	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	4.9	29
95	A rationally engineered yeast pyruvyltransferase Pvg1p introduces sialylation-like properties in neo-human-type complex oligosaccharide. *Scientific Reports*, **2016**, 6, 26349	4.9	7
94	Identification of the cysteine residue responsible for oxidative inactivation of mouse galectin-2. *Journal of Biochemistry*, **2016**, 160, 233-241	3.1	13
93	α2-6 sialylation is a marker of the differentiation potential of human mesenchymal stem cells. *Glycobiology*, **2016**, 26, 1328-1337	5.8	7
92	Lectin engineering, a molecular evolutionary approach to expanding the lectin utilities. *Molecules*, **2015**, 20, 7637-56	4.8	35
91	The Lectin Frontier Database (LfDB), and data generation based on frontal affinity chromatography. *Molecules*, **2015**, 20, 951-73	4.8	37
90	A Novel Probe as Surface Glycan Marker of Pluripotent Stem Cells: Research Outcomes and Application to Regenerative Medicine. *Advanced Healthcare Materials*, **2015**, 4, 2520-9	10.1	6
89	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, 1457-65	4	5

88	Effects of Hemagglutination Activity in the Serum of a Deep-Sea Vent Endemic Crab, Shinkaia Crosnieri, on Non-Symbiotic and Symbiotic Bacteria. *Microbes and Environments*, **2015**, 30, 228-34	2.6	8
87	Mammalian Cell Surface Display as a Novel Method for Developing Engineered Lectins with Novel Characteristics. *Biomolecules*, **2015**, 5, 1540-62	5.9	14
86	Isolation and biochemical characterization of Apios tuber lectin. *Molecules*, **2015**, 20, 987-1002	4.8	19
85	Mutated Leguminous Lectin Containing a Heparin-Binding like Motif in a Carbohydrate-Binding Loop Specifically Binds to Heparin. *PLoS ONE*, **2015**, 10, e0145834	3.7	8
84	Engineering of a 3Ssulpho-Gal□1-4GlcNAc-specific probe by a single amino acid substitution of a fungal galectin. *Journal of Biochemistry*, **2015**, 157, 197-200	3.1	5
83	Elimination of tumorigenic human pluripotent stem cells by a recombinant lectin-toxin fusion protein. *Stem Cell Reports*, **2015**, 4, 811-20	8	80
82	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, 345-56	3.1	15
81	S-nitrosylation of mouse galectin-2 prevents oxidative inactivation by hydrogen peroxide. *Biochemical and Biophysical Research Communications*, **2015**, 457, 712-7	3.4	20
80	Development and Applications of the Lectin Microarray. *Topics in Current Chemistry*, **2015**, 367, 105-24		31
79	Development and Industrial Application of the Quality Control System of Stem Cells Using Glycan Lectin Engineering. *Trends in Glycoscience and Glycotechnology*, **2015**, 27, E43-E48	0.1	
78	Discovery and Applications of a Novel Human Pluripotent Stem Cell-Specific Lectin Probe rBC2LCN **2015**, 95-106		
77	Two jacalin-related lectins from seeds of the African breadfruit (Treculia africana L.). *Bioscience, Biotechnology and Biochemistry*, **2014**, 78, 2036-44	2.1	2
76	A medium hyperglycosylated podocalyxin enables noninvasive and quantitative detection of tumorigenic human pluripotent stem cells. *Scientific Reports*, **2014**, 4, 4069	4.9	22
75	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
74	Lectin structures: classification based on the 3-D structures. *Methods in Molecular Biology*, **2014**, 1200, 579-606	1.4	34
73	Molecular clock regulates daily □-2-fucosylation of the neural cell adhesion molecule (NCAM) within mouse secondary olfactory neurons. *Journal of Biological Chemistry*, **2014**, 289, 36158-65	5.4	3
72	Application of lectin microarray to bacteria including Lactobacillus casei/paracasei strains. *Methods in Molecular Biology*, **2014**, 1200, 295-311	1.4	4
71	Live-cell imaging of human pluripotent stem cells by a novel lectin probe rBC2LCN. *Methods in Molecular Biology*, **2014**, 1200, 313-8	1.4	4

70	Evaluation of glycan-binding specificity by glycoconjugate microarray with an evanescent-field fluorescence detection system. *Methods in Molecular Biology*, **2014**, 1200, 353-9	1.4	4
69	Directed evolution of lectins by an improved error-prone PCR and ribosome display method. *Methods in Molecular Biology*, **2014**, 1200, 527-38	1.4	7
68	Comprehensive list of lectins: origins, natures, and carbohydrate specificities. *Methods in Molecular Biology*, **2014**, 1200, 555-77	1.4	19
67	rBC2LCN, a Novel Lectin Probe for Human Pluripotent Stem Cells **2014**, 1-8		
66	Tailoring GalNAcβ1-3Gal specific lectins from a multi-specific fungal galectin: dramatic change of carbohydrate specificity by a single amino-acid substitution. *Biochemical Journal*, **2013**, 453, 261-70	3.8	25
65	Conformational change of a unique sequence in a fungal galectin from Agrocybe cylindracea controls glycan ligand-binding specificity. *FEBS Letters*, **2013**, 587, 3620-5	3.8	15
64	rBC2LCN, a new probe for live cell imaging of human pluripotent stem cells. *Biochemical and Biophysical Research Communications*, **2013**, 431, 524-9	3.4	53
63	Lectin microarrays: concept, principle and applications. *Chemical Society Reviews*, **2013**, 42, 4443-58	58.5	208
62	Generation of monoclonal antibodies against the Galα1-4Gal epitope: a key tool in studies of species-specific glycans expressed in fish, amphibians and birds. *Glycobiology*, **2013**, 23, 91-105	5.8	7
61	Podocalyxin is a glycoprotein ligand of the human pluripotent stem cell-specific probe rBC2LCN. *Stem Cells Translational Medicine*, **2013**, 2, 265-73	6.9	57
60	A lectin-based glycomic approach to identify characteristic features of Xenopus embryogenesis. *PLoS ONE*, **2013**, 8, e56581	3.7	6
59	Terminal N-acetylgalactosamine-specific leguminous lectin from Wisteria japonica as a probe for human lung squamous cell carcinoma. *PLoS ONE*, **2013**, 8, e83886	3.7	15
58	Characterization and cloning of GNA-like lectin from the mushroom Marasmius oreades. *Glycoconjugate Journal*, **2012**, 29, 457-65	3	18
57	Mannose-specific lectin from the mushroom Hygrophorus russula. *Glycobiology*, **2012**, 22, 616-29	5.8	29
56	Human ZG16p recognizes pathogenic fungi through non-self polyvalent mannose in the digestive system. *Glycobiology*, **2012**, 22, 210-20	5.8	32
55	A novel core fucose-specific lectin from the mushroom Pholiota squarrosa. *Journal of Biological Chemistry*, **2012**, 287, 33973-82	5.4	79
54	Structural and quantitative evidence for dynamic glycome shift on production of induced pluripotent stem cells. *Molecular and Cellular Proteomics*, **2012**, 11, 1913-23	7.6	68
53	Difference in fine specificity to polysaccharides of Candida albicans mannoprotein between mouse SIGNR1 and human DC-SIGN. *Infection and Immunity*, **2012**, 80, 1699-706	3.7	24

52	Purification, characterization, and molecular cloning of lectin from winter buds of Lysichiton camtschatcensis (L.) Schott. *Bioscience, Biotechnology and Biochemistry*, **2012**, 76, 25-33	2.1	3
51	Directed evolution of lectins with sugar-binding specificity for 6-sulfo-galactose. *Journal of Biological Chemistry*, **2012**, 287, 20313-20	5.4	41
50	The Gal(syn)-gauche configuration is required for galectin-recognition disaccharides. *Biochimica Et Biophysica Acta - General Subjects*, **2011**, 1810, 643-51	4	25
49	Possible linkages between the inner and outer cellular states of human induced pluripotent stem cells. *BMC Systems Biology*, **2011**, 5 Suppl 1, S17	3.5	19
48	Lectin-based structural glycomics: a practical approach to complex glycans. *Electrophoresis*, **2011**, 32, 1118-28	3.6	64
47	Lectin microarray reveals binding profiles of Lactobacillus casei strains in a comprehensive analysis of bacterial cell wall polysaccharides. *Applied and Environmental Microbiology*, **2011**, 77, 4539-46	4.8	36
46	High-resolution structural insights on the sugar-recognition and fusion tag properties of a versatile trefoil lectin domain from the mushroom Laetiporus sulphureus. *Glycobiology*, **2011**, 21, 1349-61	5.8	30
45	Structure and binding analysis of Polyporus squamosus lectin in complex with the Neu5Ac{alpha}2-6Gal{beta}1-4GlcNAc human-type influenza receptor. *Glycobiology*, **2011**, 21, 973-84	5.8	51
44	Role of malectin in Glc(2)Man(9)GlcNAc(2)-dependent quality control of 1-antitrypsin. *Molecular Biology of the Cell*, **2011**, 22, 3559-70	3.5	42
43	Engineering of the glycan-binding specificity of Agrocybe cylindracea galectin towards (2,3)-linked sialic acid by saturation mutagenesis. *Journal of Biochemistry*, **2011**, 150, 545-52	3.1	26
42	Profiling the Cell Surface Glycome of Five Fungi Using Lectin Microarray. *Journal of Carbohydrate Chemistry*, **2011**, 30, 147-164	1.7	4
41	Glycome diagnosis of human induced pluripotent stem cells using lectin microarray. *Journal of Biological Chemistry*, **2011**, 286, 20345-53	5.4	151
40	Frontal affinity chromatography analysis of constructs of DC-SIGN, DC-SIGNR and LSECtin extend evidence for affinity to agalactosylated N-glycans. *FEBS Journal*, **2010**, 277, 4010-26	5.7	31
39	The sugar-binding ability of human OS-9 and its involvement in ER-associated degradation. *Glycobiology*, **2010**, 20, 310-21	5.8	59
38	SUEL-related lectins, a lectin family widely distributed throughout organisms. *Bioscience, Biotechnology and Biochemistry*, **2010**, 74, 1141-4	2.1	29
37	In situ trans ligands of CD22 identified by glycan-protein photocross-linking-enabled proteomics. *Molecular and Cellular Proteomics*, **2010**, 9, 1339-51	7.6	53
36	Dual specificity of Langerin to sulfated and mannosylated glycans via a single C-type carbohydrate recognition domain. *Journal of Biological Chemistry*, **2010**, 285, 6390-400	5.4	61
35	A versatile technology for cellular glycomics using lectin microarray. *Methods in Enzymology*, **2010**, 478, 181-95	1.7	37

34	Laetiporus sulphureus lectin and aerolysin protein family. *Advances in Experimental Medicine and Biology*, **2010**, 677, 67-80	3.6	24
33	Human C21orf63 is a heparin-binding protein. *Journal of Biochemistry*, **2009**, 146, 369-73	3.1	12
32	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, 1897-902	11.5	305
31	Comparative analysis of core-fucose-binding lectins from Lens culinaris and Pisum sativum using frontal affinity chromatography. *Glycobiology*, **2009**, 19, 527-36	5.8	92
30	N-terminal specific point-immobilization of active proteins by the one-pot NEXT-A method. *ChemBioChem*, **2009**, 10, 2460-4	3.8	15
29	The function of rhamnose-binding lectin in innate immunity by restricted binding to Gb3. *Developmental and Comparative Immunology*, **2009**, 33, 187-97	3.2	72
28	Structural characterization of a lectin from the mushroom Marasmius oreades in complex with the blood group B trisaccharide and calcium. *Journal of Molecular Biology*, **2009**, 390, 457-66	6.5	29
27	Strict binding specificity of small-sized lectins from the red alga Hypnea japonica for core (alpha1-6) fucosylated N-glycans. *Bioscience, Biotechnology and Biochemistry*, **2009**, 73, 912-20	2.1	14
26	Desulfated galactosaminoglycans are potential ligands for galectins: evidence from frontal affinity chromatography. *Biochemical and Biophysical Research Communications*, **2008**, 373, 206-12	3.4	30
25	A C-type lectin of Caenorhabditis elegans: its sugar-binding property revealed by glycoconjugate microarray analysis. *Biochemical and Biophysical Research Communications*, **2008**, 377, 303-6	3.4	20
24	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, 349-57	2.3	37
23	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, 7660-9	5.3	147
22	Glycoconjugate microarray based on an evanescent-field fluorescence-assisted detection principle for investigation of glycan-binding proteins. *Glycobiology*, **2008**, 18, 789-98	5.8	117
21	Optimization of evanescent-field fluorescence-assisted lectin microarray for high-sensitivity detection of monovalent oligosaccharides and glycoproteins. *Proteomics*, **2008**, 8, 3042-50	4.8	51
20	Distinct endocytic mechanisms of CD22 (Siglec-2) and Siglec-F reflect roles in cell signaling and innate immunity. *Molecular and Cellular Biology*, **2007**, 27, 5699-710	4.8	104
19	A novel strategy for mammalian cell surface glycome profiling using lectin microarray. *Glycobiology*, **2007**, 17, 1138-46	5.8	143
18	Structural characterization of a rhamnose-binding glycoprotein (lectin) from Spanish mackerel (Scomberomorous niphonius) eggs. *Biochimica Et Biophysica Acta - General Subjects*, **2007**, 1770, 617-29	4	60
17	Crystal structure of the Marasmius oreades mushroom lectin in complex with a xenotransplantation epitope. *Journal of Molecular Biology*, **2007**, 369, 710-21	6.5	52

16	Frontal affinity chromatography: sugar-protein interactions. *Nature Protocols*, **2007**, 2, 2529-37	18.8	115
15	Mouse Siglec-F and human Siglec-8 are functionally convergent paralogs that are selectively expressed on eosinophils and recognize 6Ssulfo-sialyl Lewis X as a preferred glycan ligand. *Glycobiology*, **2005**, 15, 1125-35	5.8	137
14	Structural analysis of the Laetiporus sulphureus hemolytic pore-forming lectin in complex with sugars. *Journal of Biological Chemistry*, **2005**, 280, 17251-9	5.4	93
13	Crystallization and preliminary crystallographic analysis of a novel haemolytic lectin from the mushroom Laetiporus sulphureus. *Acta Crystallographica Section D: Biological Crystallography*, **2004**, 60, 1139-41		13
12	Crystallization and preliminary X-ray crystallographic studies of a lectin from the mushroom Marasmius oreades. *Acta Crystallographica Section D: Biological Crystallography*, **2004**, 60, 2038-9		5
11	Partial identification of carbohydrate-binding sites of a Galalpha1,3Galbeta1,4GlcNAc-specific lectin from the mushroom Marasmius oreades by site-directed mutagenesis. *Archives of Biochemistry and Biophysics*, **2004**, 427, 101-9	4.1	18
10	Cloning, expression in Escherichia coli and characterization of the recombinant Neu5Acalpha2,6Galbeta1,4GlcNAc-specific high-affinity lectin and its mutants from the mushroom Polyporus squamosus. *Biochemical Journal*, **2004**, 382, 667-75	3.8	42
9	Molecular cloning, expression, and characterization of novel hemolytic lectins from the mushroom Laetiporus sulphureus, which show homology to bacterial toxins. *Journal of Biological Chemistry*, **2003**, 278, 40455-63	5.4	51
8	Purification, characterization, molecular cloning, and expression of novel members of jacalin-related lectins from rhizomes of the true fern Phlebodium aureum (L) J. Smith (Polypodiaceae). *Journal of Biological Chemistry*, **2003**, 278, 10891-9	5.4	33
7	Isolation and characterization of L-rhamnose-binding lectins from chum salmon (Oncorhynchus keta) eggs. *Fisheries Science*, **2002**, 68, 1352-1366	1.9	54
6	Rhamnose-binding lectins from steelhead trout (Oncorhynchus mykiss) eggs recognize bacterial lipopolysaccharides and lipoteichoic acid. *Bioscience, Biotechnology and Biochemistry*, **2002**, 66, 604-12	2.1	76
5	Distribution and molecular evolution of rhamnose-binding lectins in Salmonidae: isolation and characterization of two lectins from white-spotted Charr (Salvelinus leucomaenis) eggs. *Bioscience, Biotechnology and Biochemistry*, **2002**, 66, 1356-65	2.1	43
4	Tissue-specific expression of rhamnose-binding lectins in the steelhead trout (Oncorhynchus mykiss). *Bioscience, Biotechnology and Biochemistry*, **2002**, 66, 1427-30	2.1	18
3	A novel rhamnose-binding lectin family from eggs of steelhead trout (Oncorhynchus mykiss) with different structures and tissue distribution. *Bioscience, Biotechnology and Biochemistry*, **2001**, 65, 1328-38	2.1	54
2	Isolation and characterization of rhamnose-binding lectins from eggs of steelhead trout (Oncorhynchus mykiss) homologous to low density lipoprotein receptor superfamily. *Journal of Biological Chemistry*, **1998**, 273, 19190-7	5.4	95
1	Integrated analysis of glycan and RNA in single cells		1