Hans-Joachim Gabius

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8840708/publications.pdf

Version: 2024-02-01

370	18,631	10389	23533
papers	citations	72 h-index	111 g-index

376	376	376	10956
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	What is the Sugar Code?. ChemBioChem, 2022, 23, .	2.6	20
2	Examining Galectin Gene Regulation by Reporter Assays. Methods in Molecular Biology, 2022, 2442, 445-462.	0.9	0
3	What Happens If a Human Galectin Enters the Endoplasmic Reticulum?. Methods in Molecular Biology, 2022, 2442, 247-288.	0.9	0
4	Introducing 77Se NMR Spectroscopy to Analyzing Galectinâ€“Ligand Interaction. Methods in Molecular Biology, 2022, 2442, 105-123.	0.9	3
5	Exploring the Galectin Network by Light and. Methods in Molecular Biology, 2022, 2442, 307-338.	0.9	0
6	Glycobiology of developing chicken kidney: Profiling the galectin family and selected Î²â€galactosides. Anatomical Record, 2021, 304, 1597-1628.	1.4	4
7	Targeting the CRD Fâ€face of Human Galectinâ€3 and Allosterically Modulating Glycan Binding by Angiostatic PTX008 and a Structurally Optimized Derivative. ChemMedChem, 2021, 16, 713-723.	3.2	8
8	Galectinâ€“Glycan Interactions: Guidelines for Monitoring by ⁷⁷Se NMR Spectroscopy, and Solvent (H₂O/D₂O) Impact on Binding. Chemistry - A European Journal, 2021, 27, 316-325.	3.3	11
9	Probing sulfatide-tissue lectin recognition with functionalized glycodendrimersomes. IScience, 2021, 24, 101919.	4.1	17
10	Calorimetric Analysis of the Interplay between Synthetic Tn Antigen-Presenting MUC1 Glycopeptides and Human Macrophage Galactose-Type Lectin. Biochemistry, 2021, 60, 547-558.	2.5	7
11	From examining the relationship between (corona)viral adhesins and galectins to glyco-perspectives. Biophysical Journal, 2021, 120, 1031-1039.	0.5	5
12	Nâ€Glycan profiling of chondrocytes and fibroblastâ€like synoviocytes: Towards functional glycomics in osteoarthritis. Proteomics - Clinical Applications, 2021, 15, e2000057.	1.6	8
13	What Cyto- and Histochemistry Can Do to Crack the Sugar Code. Acta Histochemica Et Cytochemica, 2021, 54, 31-48.	1.6	11
14	Imitating evolutionâ€™s tinkering by protein engineering reveals extension of human galectin-7 activity. Histochemistry and Cell Biology, 2021, 156, 253-272.	1.7	7
15	Characterizing ligand-induced conformational changes in clinically relevant galectin-1 by HN/H2O (D2O) exchange. Biochimie, 2021, 187, 48-56.	2.6	3
16	Glycans in autophagy, endocytosis and lysosomal functions. Glycoconjugate Journal, 2021, 38, 625-647.	2.7	15
17	Simulating cellular galectin networks by mixing galectins in vitro reveals synergistic activity. Biochemistry and Biophysics Reports, 2021, 28, 101116.	1.3	2
18	Galectin network in osteoarthritis: galectin-4 programs a pathogenic signature of gene and effector expression in human chondrocytes in vitro. Histochemistry and Cell Biology, 2021, , .	1.7	2

#	Article	IF	Citations
19	The marriage of chemokines and galectins as functional heterodimers. Cellular and Molecular Life Sciences, 2021, 78, 8073-8095.	5.4	13
20	Structural Characterization of Rat Galectin-5, an N-Tailed Monomeric Proto-Type-like Galectin. Biomolecules, 2021, 11, 1854.	4.0	1
21	The emerging role of galectins in (re)myelination and its potential for developing new approaches to treat multiple sclerosis. Cellular and Molecular Life Sciences, 2020, 77, 1289-1317.	5.4	27
22	How presence of a signal peptide affects human galectins-1 and -4: Clues to explain common absence of a leader sequence among adhesion/growth-regulatory galectins. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129449.	2.4	16
23	Chicken lens development: complete signature of expression of galectins during embryogenesis and evidence for their complex formation with Î±-, Î²-, Î´-, and Ï„-crystallins, N-CAM, and N-cadherin obtained by affinity chromatography. Cell and Tissue Research, 2020, 379, 13-35.	2.9	17
24	Fluorinated Carbohydrates as Lectin Ligands: Simultaneous Screening of a Monosaccharide Library and Chemical Mapping by ¹⁹F NMR Spectroscopy. Journal of Organic Chemistry, 2020, 85, 16072-16081.	3.2	24
25	Influence of protein (human galectin-3) design on aspects of lectin activity. Histochemistry and Cell Biology, 2020, 154, 135-153.	1.7	19
26	Structural insight into the binding of human galectins to corneal keratan sulfate, its desulfated form and related saccharides. Scientific Reports, 2020, 10, 15708.	3.3	15
27	TIMâ€3 and CEACAM1 do not interact in cis and in trans. European Journal of Immunology, 2020, 50, 1126-1141.	2.9	25
28	Chemokines and galectins form heterodimers to modulate inflammation. EMBO Reports, 2020, 21, e47852.	4.5	63
29	Pro4 prolyl peptide bond isomerization in human galectin-7 modulates the monomer-dimer equilibrum to affect function. Biochemical Journal, 2020, 477, 3147-3165.	3.7	11
30	How galectins have become multifunctional proteins. Histology and Histopathology, 2020, 35, 509-539.	0.7	33
31	Human galectinâ€3: Molecular switch of gene expression in dermal fibroblasts inÂvitro and of skin collagen organization in open wounds and tensile strength in incisions inÂvivo. Molecular Medicine Reports, 2020, 23, .	2.4	6
32	Detection of malignancyâ€associated phosphoproteome changes in human colorectal cancer induced by cell surface binding of growthâ€inhibitory galectinâ€4. IUBMB Life, 2019, 71, 364-375.	3.4	14
33	The sugar code: letters and vocabulary, writers, editors and readers and biosignificance of functional glycanâ€“lectin pairing. Biochemical Journal, 2019, 476, 2623-2655.	3.7	88
34	Galectin-3: is this member of a large family of multifunctional lectins (already) a therapeutic target?. Expert Opinion on Therapeutic Targets, 2019, 23, 819-828.	3.4	29
35	Sensing Glycans as Biochemical Messages by Tissue Lectins: The Sugar Code at Work in Vascular Biology. Thrombosis and Haemostasis, 2019, 119, 517-533.	3.4	18
36	Galectinsâ€1 and â€3 in Human Intervertebral Disc Degeneration: Nonâ€Uniform Distribution Profiles and Activation of Disease Markers Involving NFâ€ºB by Galectinâ€1. Journal of Orthopaedic Research, 2019, 37, 2204-2216.	2.3	8

#	Article	IF	Citations
37	How altering the modular architecture affects aspects of lectin activity: case study on human galectin-1. Glycobiology, 2019, 29, 593-607.	2.5	20
38	Selenoglycosides as Lectin Ligands: ⁷⁷Seâ€Edited CPMGâ€HSQMBC NMR Spectroscopy To Monitor Biomedically Relevant Interactions. ChemBioChem, 2019, 20, 1688-1692.	2.6	12
39	Lectinology 4.0: Altering modular (ga)lectin display for functional analysis and biomedical applications. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 935-940.	2.4	26
40	Designâ€“functionality relationships for adhesion/growth-regulatory galectins. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2837-2842.	7.1	57
41	Chicken GRIFIN: binding partners, developmental course of localization and activation of its lens-specific gene expression by L-Maf/Pax6. Cell and Tissue Research, 2019, 375, 665-683.	2.9	13
42	Targeting galectin-1 inhibits pancreatic cancer progression by modulating tumorâ€“stroma crosstalk. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3769-E3778.	7.1	114
43	Exploring functional pairing between surface glycoconjugates and human galectins using programmable glycodendrimersomes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2509-E2518.	7.1	71
44	Chicken GRIFIN: Structural characterization in crystals and in solution. Biochimie, 2018, 146, 127-138.	2.6	11
45	Adhesion/growth-regulatory galectins tested in combination: evidence for formation of hybrids as heterodimers. Biochemical Journal, 2018, 475, 1003-1018.	3.7	32
46	Three-step monitoring of glycan and galectin profiles in the anterior segment of the adult chicken eye. Annals of Anatomy, 2018, 217, 66-81.	1.9	16
47	The sugar code: Why glycans are so important. BioSystems, 2018, 164, 102-111.	2.0	84
48	Members of the Galectin Network with Deviations from the Canonical Sequence Signature.â€ƒ1. <i>G</i>alectin-<i>R</i>elated <i>I</i>nter-<i>F</i>iber Prote<i>in</i> (GRIFIN). Trends in Glycoscience and Glycotechnology, 2018, 30, SE1-SE9.	0.1	16
49	Galectin-4, a Negative Regulator of Oligodendrocyte Differentiation, Is Persistently Present in Axons and Microglia/Macrophages in Multiple Sclerosis Lesions. Journal of Neuropathology and Experimental Neurology, 2018, 77, 1024-1038.	1.7	15
50	Fluorinated Carbohydrates as Lectin Ligands: Synthesis of OH/Fâ€Substituted Nâ€Glycan Core Trimannoside and Epitope Mapping by 2D STDâ€TOCSYreFâ€¦NMR spectroscopy. Chemistry - A European Journal, 2018, 24, 15761-15765.	3.3	41
51	Galectin-8 induces functional disease markers in human osteoarthritis and cooperates with galectins-1 and -3. Cellular and Molecular Life Sciences, 2018, 75, 4187-4205.	5.4	46
52	Crystallization of a human galectin-3 variant with two ordered segments in the shortened N-terminal tail. Scientific Reports, 2018, 8, 9835.	3.3	42
53	Glycan Chains of Gangliosides: Functional Ligands for Tissue Lectins (Siglecs/Galectins). Progress in Molecular Biology and Translational Science, 2018, 156, 289-324.	1.7	28
54	From glycophenotyping by (plant) lectin histochemistry to defining functionality of glycans by pairing with endogenous lectins. Histochemistry and Cell Biology, 2018, 149, 547-568.	1.7	36

#	Article	IF	Citations
55	Revealing biomedically relevant cell and lectin type-dependent structureâ€“activity profiles for glycoclusters by using tissue sections as an assay platform. RSC Advances, 2018, 8, 28716-28735.	3.6	10
56	Detection of Distinct Changes in Gene-expression Profiles in Specimens of Tumors and Transition Zones of Tenascinpositive/- negative Head and Neck Squamous Cell Carcinoma. Anticancer Research, 2018, 38, 1279-1290.	1.1	8
57	Members of the Galectin Network with Deviations from the Canonical Sequence Signature.â€ƒ2. <i>G</i>alectin-<i>R</i>elated <i>P</i>rotein (GRP). Trends in Glycoscience and Glycotechnology, 2018, 30, SE11-SE20.	0.1	12
58	Long-chain GM1 gangliosides alter transmembrane domain registration through interdigitation. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 870-878.	2.6	20
59	Network analysis of adhesion/growthâ€regulatory galectins and their binding sites in adult chicken retina and choroid. Journal of Anatomy, 2017, 231, 23-37.	1.5	31
60	Bivalent O -glycoside mimetics with S /disulfide/ Se substitutions and aromatic core: Synthesis, molecular modeling and inhibitory activity on biomedically relevant lectins in assays of increasing physiological relevance. Bioorganic and Medicinal Chemistry, 2017, 25, 3158-3170.	3.0	11
61	Galectins: their network and roles in immunity/tumor growth control. Histochemistry and Cell Biology, 2017, 147, 239-256.	1.7	111
62	Lectins: a primer for histochemists and cell biologists. Histochemistry and Cell Biology, 2017, 147, 199-222.	1.7	107
63	Teaming up synthetic chemistry and histochemistry for activity screening in galectin-directed inhibitor design. Histochemistry and Cell Biology, 2017, 147, 285-301.	1.7	38
64	An introduction to the sugar code. Histochemistry and Cell Biology, 2017, 147, 111-117.	1.7	105
65	Combination of galectin-3, CK19 and HBME-1 immunostaining improves the diagnosis of thyroid cancer. Oncology Letters, 2017, 14, 4183-4189.	1.8	36
66	Neurons define non-myelinated axon segments by the regulation of galectin-4-containing axon membrane domains. Scientific Reports, 2017, 7, 12246.	3.3	24
67	Reaction of a Programmable Glycan Presentation of Glycodendrimersomes and Cells with Engineered Human Lectins To Show the Sugar Functionality of the Cell Surface. Angewandte Chemie, 2017, 129, 14869-14873.	2.0	4
68	Reaction of a Programmable Glycan Presentation of Glycodendrimersomes and Cells with Engineered Human Lectins To Show the Sugar Functionality of the Cell Surface. Angewandte Chemie - International Edition, 2017, 56, 14677-14681.	13.8	41
69	Galectin-1 is a diagnostic marker involved in thyroid cancer progression. International Journal of Oncology, 2017, 51, 760-770.	3.3	27
70	Analyzing epigenetic control of galectin expression indicates silencing of galectinâ€12 by promoter methylation in colorectal cancer. IUBMB Life, 2017, 69, 962-970.	3.4	8
71	Synthetic Mucinâ€Like Glycopeptides as Versatile Tools to Measure Effects of Glycan Structure/Density/Position on the Interaction with Adhesion/Growthâ€Regulatory Galectins in Arrays. Chemistry - an Asian Journal, 2017, 12, 159-167.	3.3	22
72	Direct Enzymatic Branchâ€End Extension of Glycoclusterâ€Presented Glycans: An Effective Strategy for Programming Glycan Bioactivity. Chemistry - A European Journal, 2017, 23, 1623-1633.	3.3	17

#	Article	IF	Citations
73	Studying the Structural Significance of Galectin Design by Playing a Modular Puzzle: Homodimer Generation from Human Tandem-Repeat-Type (Heterodimeric) Galectin-8 by Domain Shuffling. Molecules, 2017, 22, 1572.	3.8	12
74	Genome-wide Expression Profiling (with Focus on the Galectin Network) in Tumor, Transition Zone and Normal Tissue of Head and Neck Cancer: Marked Differences Between Individual Patients and the Site of Specimen Origin. Anticancer Research, 2017, 37, 2275-2288.	1.1	14
75	Multivalent Carbohydrate-Lectin Interactions: How Synthetic Chemistry Enables Insights into Nanometric Recognition. Molecules, 2016, 21, 629.	3.8	58
76	Pharmacological activation of estrogen receptors-Î± and -Î² differentially modulates keratinocyte differentiation with functional impact on wound healing. International Journal of Molecular Medicine, 2016, 37, 21-28.	4.0	25
77	Why Do Membranes of Some Unhealthy Cells Adopt a Cubic Architecture?. ACS Central Science, 2016, 2, 943-953.	11.3	37
78	Galectin-3 Induces a Pro-degradative/inflammatory Gene Signature in Human Chondrocytes, Teaming Up with Galectin-1 in Osteoarthritis Pathogenesis. Scientific Reports, 2016, 6, 39112.	3.3	47
79	Chicken GRIFIN: A homodimeric member of the galectin network with canonical properties and a unique expression profile. Biochimie, 2016, 128-129, 34-47.	2.6	26
80	Detection of Proteome Changes in Human Colon Cancer Induced by Cell Surface Binding of Growth-Inhibitory Human Galectin-4 Using Quantitative SILAC-Based Proteomics. Journal of Proteome Research, 2016, 15, 4412-4422.	3.7	20
81	Merging carbohydrate chemistry with lectin histochemistry to study inhibition of lectin binding by glycoclusters in the natural tissue context. Histochemistry and Cell Biology, 2016, 145, 185-199.	1.7	16
82	Galectin-related protein: An integral member of the network of chicken galectins 1. From strong sequence conservation of the gene confined to vertebrates to biochemical characteristics of the chicken protein and its crystal structure. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 2285-2297.	2.4	23
83	Galectin-related protein: An integral member of the network of chicken galectins. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 2298-2312.	2.4	30
84	Galectin-8 enhances adhesion of multiple myeloma cells to vascular endothelium and is an adverse prognostic factor. Glycobiology, 2016, 26, 1048-1058.	2.5	23
85	Galectin-1 Couples Glycobiology to Inflammation in Osteoarthritis through the Activation of an NF-ÎºBâ€“Regulated Gene Network. Journal of Immunology, 2016, 196, 1910-1921.	0.8	77
86	Functional interplay between ganglioside <scp>GM</scp>1 and crossâ€linking galectinâ€1 induces axonâ€like neuritogenesis via integrinâ€based signaling and <scp>TRPC</scp>5â€dependent Ca²⁺ influx. Journal of Neurochemistry, 2016, 136, 550-563.	3.9	40
87	Bioactive cell-like hybrids coassembled from (glyco)dendrimersomes with bacterial membranes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1134-41.	7.1	69
88	Onion-like glycodendrimersomes from sequence-defined Janus glycodendrimers and influence of architecture on reactivity to a lectin. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1162-1167.	7.1	86
89	Intra- and intermolecular interactions of human galectin-3: assessment by full-assignment-based NMR. Glycobiology, 2016, 26, 888-903.	2.5	66
90	Regulatory Impact of Amniotic Membrane Transplantation on Presence of Adhesion/Growth-Regulatory Galectins-1 and -7 in Corneal Explants fromAcanthamoebaKeratitis Patients: Clinical Note. Current Eye Research, 2016, 41, 740-746.	1.5	1

#	Article	IF	Citations
91	Playing Modular Puzzle with Adhesion/Growth-Regulatory Galectins: Design and Testing of a Hybrid to Unravel Structure-Activity Relationships. Protein and Peptide Letters, 2016, 23, 1003-1012.	0.9	8
92	Structural Insights into the Binding of Sugar Receptors (Lectins) to a Synthetic Tricyclic Tn Mimetic and Its Glycopeptide Version. European Journal of Organic Chemistry, 2015, 2015, 6823-6831.	2.4	9
93	Combining Crystallography and Hydrogenâ€“Deuterium Exchange to Study Galectinâ€“Ligand Complexes. Chemistry - A European Journal, 2015, 21, 13558-13568.	3.3	16
94	Network Monitoring of Adhesion/Growthâ€Regulatory Galectins: Localization of the Five Canonical Chicken Proteins in Embryonic and Maturing Bone and Cartilage and Their Introduction as Histochemical Tools. Anatomical Record, 2015, 298, 2051-2070.	1.4	15
95	Fluorinated Carbohydrates as Lectin Ligands: 19F-Based Direct STD Monitoring for Detection of Anomeric Selectivity. Biomolecules, 2015, 5, 3177-3192.	4.0	28
96	Lectins: Getting Familiar with Translators of the Sugar Code. Molecules, 2015, 20, 1788-1823.	3.8	74
97	The magic of the sugar code. Trends in Biochemical Sciences, 2015, 40, 341.	7.5	60
98	Thio- and selenoglycosides as ligands for biomedically relevant lectins: Valencyâ€“activity correlations for benzene-based dithiogalactoside clusters and first assessment for (di)selenodigalactosides. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 931-935.	2.2	38
99	Dissecting Molecular Aspects of Cell Interactions Using Glycodendrimersomes with Programmable Glycan Presentation and Engineered Human Lectins. Angewandte Chemie - International Edition, 2015, 54, 4036-4040.	13.8	94
100	Preliminary X-ray crystallographic analysis of an engineered variant of human chimera-type galectin-3 with a shortened N-terminal domain. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 184-188.	0.8	3
101	Glycoclusters as lectin inhibitors: comparative analysis on two plant agglutinins with different folding as a step towards rules for selectivity. Tetrahedron, 2015, 71, 6867-6880.	1.9	5
102	Thermodynamic Switch in Binding of Adhesion/Growth Regulatory Human Galectin-3 to Tumor-Associated TF Antigen (CD176) and MUC1 Glycopeptides. Biochemistry, 2015, 54, 4462-4474.	2.5	31
103	The glycobiology of the CD system: a dictionary for translating marker designations into glycan/lectin structure and function. Trends in Biochemical Sciences, 2015, 40, 360-376.	7.5	81
104	Bi- to tetravalent glycoclusters presenting GlcNAc/GalNAc as inhibitors: from plant agglutinins to human macrophage galactose-type lectin (CD301) and galectins. Organic and Biomolecular Chemistry, 2015, 13, 4190-4203.	2.8	17
105	Structural significance of galectin design: impairment of homodimer stability by linker insertion and partial reversion by ligand presence. Protein Engineering, Design and Selection, 2015, 28, 199-210.	2.1	28
106	Unraveling functional significance of natural variations of a human galectin by glycodendrimersomes with programmable glycan surface. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5585-5590.	7.1	75
107	Glycodendrimersomes from Sequence-Defined Janus Glycodendrimers Reveal High Activity and Sensor Capacity for the Agglutination by Natural Variants of Human Lectins. Journal of the American Chemical Society, 2015, 137, 13334-13344.	13.7	87
108	Engineering a Therapeutic Lectin by Uncoupling Mitogenicity from Antiviral Activity. Cell, 2015, 163, 746-758.	28.9	89

#	Article	IF	Citations
109	Studies on Unprocessed and Acid-Treated Arabinogalactan from Larch as an Inhibitor of Glycan Binding of a Plant Toxin and Biomedically Relevant Human Lectins. Planta Medica, 2015, 81, 1146-1153.	1.3	2
110	Multifaceted glycodendrimers with programmable bioactivity through convergent, divergent, and accelerated approaches using polyfunctional cyclotriphosphazenes. Polymer Chemistry, 2015, 6, 7666-7683.	3.9	30
111	A guide into glycosciences: How chemistry, biochemistry and biology cooperate to crack the sugar code. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 186-235.	2.4	188
112	1H, 13C, and 15N backbone and side-chain chemical shift assignments for the 36 proline-containing, full length 29ÂkDa human chimera-type galectin-3. Biomolecular NMR Assignments, 2015, 9, 59-63.	0.8	20
113	Defining the Potential of Aglycone Modifications for Affinity/Selectivity Enhancement against Medically Relevant Lectins: Synthesis, Activity Screening, and HSQCâ€Based NMR Analysis. ChemBioChem, 2015, 16, 126-139.	2.6	16
114	Emerging role of tissue lectins as microenvironmental effectors in tumors and wounds. Histology and Histopathology, 2015, 30, 293-309.	0.7	15
115	Lectins from Medicinal Plants: Bioeffectors with Diverse Activities. , 2014, , 43-56.		0
116	Synthetic Polyamine BPAâ€C8 Inhibits TGFâ€Î²1â€Mediated Conversion of Human Dermal Fibroblast to Myofibroblasts and Establishment of Galectinâ€1â€Rich Extracellular Matrix in Vitro. ChemBioChem, 2014, 15, 1465-1470.	2.6	10
117	Natural single amino acid polymorphism (F19Y) in human galectinâ€8: detection of structural alterations and increased growthâ€regulatory activity on tumor cells. FEBS Journal, 2014, 281, 1446-1464.	4.7	40
118	Delineating Binding Modes of Gal/GalNAc and Structural Elements of the Molecular Recognition of Tumorâ€Associated Mucin Glycopeptides by the Human Macrophage Galactoseâ€Type Lectin. Chemistry - A European Journal, 2014, 20, 16147-16155.	3.3	46
119	Human osteoarthritic knee cartilage: fingerprinting of adhesion/growth-regulatory galectins in vitro and in situ indicates differential upregulation in severe degeneration. Histochemistry and Cell Biology, 2014, 142, 373-388.	1.7	56
120	Introduction to glycopathology: the concept, the tools and the perspectives. Diagnostic Pathology, 2014, 9, 4.	2.0	24
121	Peptides derived from human galectin-3 N-terminal tail interact with its carbohydrate recognition domain in a phosphorylation-dependent manner. Biochemical and Biophysical Research Communications, 2014, 443, 126-131.	2.1	24
122	Lanthanide-Chelating Carbohydrate Conjugates Are Useful Tools To Characterize Carbohydrate Conformation in Solution and Sensitive Sensors to Detect Carbohydrateâ€“Protein Interactions. Journal of the American Chemical Society, 2014, 136, 8011-8017.	13.7	51
123	Combining glycocluster synthesis with protein engineering: an approach to probe into the significance of linker length in a tandem-repeat-type lectin (galectin-4). Carbohydrate Research, 2014, 389, 25-38.	2.3	22
124	Human chimera-type galectin-3: Defining the critical tail length for high-affinity glycoprotein/cell surface binding and functional competition with galectin-1 in neuroblastoma cell growth regulation. Biochimie, 2014, 104, 90-99.	2.6	47
125	Phosphorylation of multifunctional galectins by protein kinases CK1, CK2, and PKA. Analytical Biochemistry, 2014, 449, 109-117.	2.4	2
126	Galectin fingerprinting in naso-sinusal diseases. Oncology Reports, 2014, 32, 23-32.	2.6	10

#	Article	IF	Citations
127	Involvement of macrophage migration inhibitory factor and its receptor (CD74) in human breast cancer. Oncology Reports, 2014, 32, 523-529.	2.6	39
128	Extracellular matrix of galectin-1-exposed dermal and tumor-associated fibroblasts favors growth of human umbilical vein endothelial cells in vitro: a short report. Anticancer Research, 2014, 34, 3991-6.	1.1	4
129	Impact of sodium butyrate on the network of adhesion/growth-regulatory galectins in human colon cancer in vitro. Anticancer Research, 2014, 34, 5429-38.	1.1	31
130	Loss of adhesion/growthâ€regulatory galectinâ€9 from squamous cell epithelium in head and neck carcinomas. Journal of Oral Pathology and Medicine, 2013, 42, 166-173.	2.7	12
131	The Third Dimension of Reading the Sugar Code by Lectins: Design of Glycoclusters with Cyclic Scaffolds as Tools with the Aim to Define Correlations between Spatial Presentation and Activity. Molecules, 2013, 18, 4026-4053.	3.8	47
132	Conformational Selection in Glycomimetics: Human Galectinâ€1 Only Recognizes synâ€Î¨â€Type Conformations of Î²â€1,3â€Linked Lactose and Its Câ€Glycosyl Derivative. Chemistry - A European Journal, 2013, 19, 14581-14590.	3.3	19
133	Context-dependent multifunctionality of galectin-1: a challenge for defining the lectin as therapeutic target. Expert Opinion on Therapeutic Targets, 2013, 17, 379-392.	3.4	63
134	Molecular Recognition of Complex-Type Biantennary N-Glycans by Protein Receptors: a Three-Dimensional View on Epitope Selection by NMR. Journal of the American Chemical Society, 2013, 135, 2667-2675.	13.7	37
135	Neuronal Galectinâ€4 is required for axon growth and for the organization of axonal membrane L1 delivery and clustering. Journal of Neurochemistry, 2013, 125, 49-62.	3.9	62
136	Single-Site Mutational Engineering and Following MonoPEGylation of the Human Lectin Galectin-2: Effects on Ligand Binding, Functional Aspects, and Clearance from Serum. Molecular Pharmaceutics, 2013, 10, 2054-2061.	4.6	17
137	Glycophenotyping of osteoarthritic cartilage and chondrocytes by RT-qPCR, mass spectrometry, histochemistry with plant/human lectins and lectin localization with a glycoprotein. Arthritis Research and Therapy, 2013, 15, R147.	3.5	38
138	Autoantibodies against galectins are associated with antiphospholipid syndrome in patients with systemic lupus erythematosus. Glycobiology, 2013, 23, 12-22.	2.5	39
139	Lactose binding to human galectin-7 (p53-induced gene 1) induces long-range effects through the protein resulting in increased dimer stability and evidence for positive cooperativity. Glycobiology, 2013, 23, 508-523.	2.5	42
140	Copy-number variation of functional galectin genes: Studying animal galectin-7 (p53-induced gene 1 in) Tj ETQq0 0 0 rgBT /Overlock 10	2.5	21
141	Fine-tuning of prototype chicken galectins: structure of CG-2 and structureâ€“activity correlations. Acta Crystallographica Section D: Biological Crystallography, 2013, 69, 1665-1676.	2.5	11
142	Breaking Pseudoâ€Symmetry in Multiantennary Complex Nâ€Glycans Using Lanthanideâ€Binding Tags and NMR Pseudoâ€Contact Shifts. Angewandte Chemie - International Edition, 2013, 52, 13789-13793.	13.8	71
143	Fluorinated Carbohydrates as Lectin Ligands: Dissecting Glycanâ€“Cyanovirin Interactions by Using ¹⁹Fâ€…NMR Spectroscopy. Chemistry - A European Journal, 2013, 19, 5364-5374.	3.3	40
144	Targeting Matrix Metalloproteinases: Design of a Bifunctional Inhibitor for Presentation by Tumourâ€Associated Galectins. Chemistry - A European Journal, 2013, 19, 1896-1902.	3.3	19

#	Article	IF	Citations
145	The growing galectin network in colon cancer and clinical relevance of cytoplasmic galectin-3 reactivity. Anticancer Research, 2013, 33, 3053-9.	1.1	47
146	Galectin-3 bindsNeisseria meningitidisand increases interaction with phagocytic cells. Cellular Microbiology, 2012, 14, 1657-1675.	2.1	73
147	Galectin-1 Cross-Linking of GM1 Ganglioside in Autoimmune Suppression. ACS Symposium Series, 2012, , 107-121.	0.5	1
148	Bi- to tetravalent glycoclusters: synthesis, structureâ€“activity profiles as lectin inhibitors and impact of combining both valency and headgroup tailoring on selectivity. Organic and Biomolecular Chemistry, 2012, 10, 6893.	2.8	37
149	1H, 13C, and 15N backbone and side-chain chemical shift assignments for the 31ÂkDa human galectin-7 (p53-induced gene 1) homodimer, a pro-apoptotic lectin. Biomolecular NMR Assignments, 2012, 6, 127-129.	0.8	15
150	Molecular Recognition of the Thomsen-Friedenreich Antigenâ€“Threonine Conjugate by Adhesion/Growth Regulatory Galectin-3: Nuclear Magnetic Resonance Studies and Molecular Dynamics Simulations. Biochemistry, 2012, 51, 7278-7289.	2.5	27
151	Non-synonymous single nucleotide polymorphisms in genes for immunoregulatory galectins: Association of galectin-8 (F19Y) occurrence with autoimmune diseases in a Caucasian population. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1512-1518.	2.4	28
152	Studies Related to Norway Spruce Galactoglucomannans: Chemical Synthesis, Conformation Analysis, NMR Spectroscopic Characterization, and Molecular Recognition of Model Compounds. Chemistry - A European Journal, 2012, 18, 14392-14405.	3.3	31
153	Upregulation of ILâ€6, ILâ€8 and CXCLâ€1 production in dermal fibroblasts by normal/malignant epithelial cells in vitro: Immunohistochemical and transcriptomic analyses. Biology of the Cell, 2012, 104, 738-751.	2.0	71
154	Tumour suppressor p16^{INK4a} â€“ anoikisâ€favouring decrease in <scp>N</scp>/<scp>O</scp>â€glycan/cell surface sialylation by downâ€regulation of enzymes in sialic acid biosynthesis in tandem in a pancreatic carcinoma model. FEBS Journal, 2012, 279, 4062-4080.	4.7	108
155	Colonic carcinogenesis along different genetic routes: glycophenotyping of tumor cases separated by microsatellite instability/stability. Histochemistry and Cell Biology, 2012, 138, 339-350.	1.7	19
156	Analysis of homodimeric avian and human galectins by two methods based on fluorescence spectroscopy: Different structural alterations upon oxidation and ligand binding. Biochimie, 2012, 94, 2649-2655.	2.6	24
157	Horizontal Gene Transfer Contributed to the Evolution of Extracellular Surface Structures: The Freshwater Polyp Hydra Is Covered by a Complex Fibrous Cuticle Containing Glycosaminoglycans and Proteins of the PPOD and SWT (Sweet Tooth) Families. PLoS ONE, 2012, 7, e52278.	2.5	26
158	Î±-N-Linked glycopeptides: conformational analysis and bioactivity as lectin ligands. Organic and Biomolecular Chemistry, 2012, 10, 5916.	2.8	10
159	Fluorinated Carbohydrates as Lectin Ligands: Biorelevant Sensors with Capacity to Monitor Anomer Affinity in ¹⁹Fâ€NMRâ€Based Inhibitor Screening. European Journal of Organic Chemistry, 2012, 2012, 4354-4364.	2.4	20
160	Ganglioside GM1/Galectin-Dependent Growth Regulation in Human Neuroblastoma Cells: Special Properties of Bivalent Galectin-4 and Significance of Linker Length for Ligand Selection. Neurochemical Research, 2012, 37, 1267-1276.	3.3	44
161	Adhesion/growth-regulatory galectins in the human eye: localization profiles and tissue reactivities as a standard to detect disease-associated alterations. Graefe's Archive for Clinical and Experimental Ophthalmology, 2012, 250, 1169-1180.	1.9	21
162	Synthesis of bivalent lactosides and their activity as sensors for differences between lectins in inter- and intrafamily comparisons. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 313-318.	2.2	41

#	Article	IF	Citations
163	Beyond glycoproteins as galectin counterreceptors: tumorâ€effector T cell growth control via ganglioside GM1. Annals of the New York Academy of Sciences, 2012, 1253, 206-221.	3.8	53
164	Toward Bioinspired Galectin Mimetics: Identification of Ligand-Contacting Peptides by Proteolytic-Excision Mass Spectrometry. Journal of the American Chemical Society, 2011, 133, 14844-14847.	13.7	34
165	Structural studies on the interaction of saccharides and glycomimetics with galectin-1: A 3D perspective using a combined molecular modeling and NMR approach. Pure and Applied Chemistry, 2011, 84, 49-64.	1.9	9
166	Glycobiomarkers by glycoproteomics and glycan profiling (glycomics): emergence of functionality. Biochemical Society Transactions, 2011, 39, 399-405.	3.4	35
167	Negative regulation of RPE cell attachment by carbohydrate-dependent cell surface binding of galectin-3 and inhibition of the ERKâ€“MAPK pathway. Biochimie, 2011, 93, 477-488.	2.6	28
168	Human galectin-3 (Mac-2 antigen): Defining molecular switches of affinity to natural glycoproteins, structural and dynamic aspects of glycan binding by flexible ligand docking and putative regulatory sequences in the proximal promoter region. Biochimica Et Biophysica Acta - General Subjects, 2011, 1810, 150-161.	2.4	72
169	Symmetric dithiodigalactoside: strategic combination of binding studies and detection of selectivity between a plant toxin and human lectins. Organic and Biomolecular Chemistry, 2011, 9, 5445.	2.8	47
170	Combining carbohydrate substitutions at bioinspired positions with multivalent presentation towards optimising lectin inhibitors: case study with calixarenes. Chemical Communications, 2011, 47, 6126.	4.1	68
171	The How and Why of Ca2+ Involvement in Lectin Activity. Trends in Glycoscience and Glycotechnology, 2011, 23, 168-177.	0.1	10
172	Open Wound Healing In Vivo: Monitoring Binding and Presence of Adhesion/Growth-Regulatory Galectins in Rat Skin during the Course of Complete Re-Epithelialization. Acta Histochemica Et Cytochemica, 2011, 44, 191-199.	1.6	34
173	Quantitative immunohistochemical fingerprinting of adhesion/growthâ€regulatory galectins in salivary gland tumours: divergent profiles with diagnostic potential. Histopathology, 2011, 58, 543-556.	2.9	29
174	From lectin structure to functional glycomics: principles of the sugar code. Trends in Biochemical Sciences, 2011, 36, 298-313.	7.5	436
175	Galectins as tools for glycan mapping in histology: comparison of their binding profiles to the bovine zona pellucida by confocal laser scanning microscopy. Histochemistry and Cell Biology, 2011, 135, 539-552.	1.7	34
176	Towards sugar derivatives as toxin-blocking pharmaceuticals: STD NMR spectroscopy as versatile tool for affinity assessment in drug development. Comptes Rendus Chimie, 2011, 14, 96-101.	0.5	3
177	A regulatory network of two galectins mediates the earliest steps of avian limb skeletal morphogenesis. BMC Developmental Biology, 2011, 11, 6.	2.1	57
178	Cyclic neoglycodecapeptides: how to increase their inhibitory activity and selectivity on lectin/toxin binding to a glycoprotein and cells. Journal of Peptide Science, 2011, 17, 427-437.	1.4	27
179	Toward Comprehensive Analysis of the Galectin Network in Chicken: Unique Diversity of Galectinâ€3 and Comparison of its Localization Profile in Organs of Adult Animals to the Other Four Members of this Lectin Family. Anatomical Record, 2011, 294, 427-444.	1.4	38
180	Inhibitory potential of chemical substitutions at bioinspired sites of Î²-d-galactopyranose on neoglycoprotein/cell surface binding of two classes of medically relevant lectins. Bioorganic and Medicinal Chemistry, 2011, 19, 3280-3287.	3.0	49

#	Article	IF	Citations
181	Structural aspects of binding of Î±-linked digalactosides to human galectin-1. Glycobiology, 2011, 21, 1627-1641.	2.5	43
182	Human Galectins Induce Conversion of Dermal Fibroblasts into Myofibroblasts and Production of Extracellular Matrix: Potential Application in Tissue Engineering and Wound Repair. Cells Tissues Organs, 2011, 194, 469-480.	2.3	58
183	Ganglioside GM1 Deficiency in Effector T Cells From NOD Mice Induces Resistance to Regulatory T-Cell Suppression. Diabetes, 2011, 60, 2341-2349.	0.6	60
184	Adhesion/Growth-Regulatory Galectins: Insights into Their Ligand Selectivity Using Natural Glycoproteins and Glycotopes. Advances in Experimental Medicine and Biology, 2011, 705, 117-141.	1.6	8
185	Galectin-5 is bound onto the surface of rat reticulocyte exosomes and modulates vesicle uptake by macrophages. Blood, 2010, 115, 696-705.	1.4	250
186	Selenoglycosides in silico: ab initio-derived reparameterization of MM4, conformational analysis using histo-blood group ABH antigens and lectin docking as indication for potential of bioactivity. Journal of Computer-Aided Molecular Design, 2010, 24, 1009-1021.	2.9	13
187	Lectinâ€Based Drug Design: Combined Strategy to Identify Lead Compounds using STD NMR Spectroscopy, Solidâ€Phase Assays and Cell Binding for a Plant Toxin Model. ChemMedChem, 2010, 5, 415-419.	3.2	30
188	How adhesion/growthâ€regulatory galectinsâ€1 and â€3 attain cell specificity: Case study defining their target on neuroblastoma cells (SKâ€Nâ€MC) and marked affinity regulation by affecting microdomain organization of the membrane. IUBMB Life, 2010, 62, 624-628.	3.4	66
189	Diffusion nuclear magnetic resonance spectroscopy detects substoichiometric concentrations of small molecules in protein samples. Analytical Biochemistry, 2010, 396, 117-123.	2.4	8
190	Tumor suppressor p16^{INK4a}: Downregulation of galectinâ€3, an endogenous competitor of the proâ€anoikis effector galectinâ€1, in a pancreatic carcinoma model. FEBS Journal, 2010, 277, 3552-3563.	4.7	115
191	Phosphorylation of adhesion- and growth-regulatory human galectin-3 leads to the induction of axonal branching by local membrane L1 and ERM redistribution. Journal of Cell Science, 2010, 123, 671-681.	2.0	31
192	Synthesis and screening of a small glycomimetic library for inhibitory activity on medically relevant galactoside-specific lectins in assays of increasing biorelevance. New Journal of Chemistry, 2010, 34, 2229.	2.8	36
193	Hydrodynamic Properties of Human Adhesion/Growth-Regulatory Galectins Studied by Fluorescence Correlation Spectroscopy. Biophysical Journal, 2010, 98, 3044-3053.	0.5	39
194	Analysis of MonoPEGylated Human Galectin-2 by Small-Angle X-ray and Neutron Scattering: Concentration Dependence of PEG Conformation in the Conjugate. Biomacromolecules, 2010, 11, 3504-3510.	5.4	24
195	N-domain of human adhesion/growth-regulatory galectin-9: Preference for distinct conformers and non-sialylated N-glycans and detection of ligand-induced structural changes in crystal and solution. International Journal of Biochemistry and Cell Biology, 2010, 42, 1019-1029.	2.8	47
196	The tumor-associated antigen 90K/Mac-2-binding protein secreted by human colon carcinoma cells enhances extracellular levels of promatrilysin and is a novel substrate of matrix metalloproteinases-2, -7 (matrilysin) and -9: Implications of proteolytic cleavage. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 336-343.	2.4	12
197	Binding studies of adhesion/growth-regulatory galectins with glycoconjugates monitored by surface plasmon resonance and NMR spectroscopy. Organic and Biomolecular Chemistry, 2010, 8, 2986.	2.8	21
198	Glycocluster Design for Improved Avidity and Selectivity in Blocking Human Lectin/Plant Toxin Binding to Glycoproteins and Cells. Molecular Pharmaceutics, 2010, 7, 2270-2279.	4.6	24

#	Article	IF	Citations
199	Galectin fingerprinting in Warthin's tumors: lectin-based approach to trace its origin?. Histology and Histopathology, 2010, 25, 541-50.	0.7	21
200	From structural to functional glycomics: core substitutions as molecular switches for shape and lectin affinity of N-glycans. Biological Chemistry, 2009, 390, 557-65.	2.5	80
201	Cross-Linking of GM1 Ganglioside by Galectin-1 Mediates Regulatory T Cell Activity Involving TRPC5 Channel Activation: Possible Role in Suppressing Experimental Autoimmune Encephalomyelitis. Journal of Immunology, 2009, 182, 4036-4045.	0.8	177
202	Compensation of loss of protein function in microsatellite-unstable colon cancer cells (HCT116): A gene-dependent effect on the cell surface glycan profile. Glycobiology, 2009, 19, 726-734.	2.5	40
203	Synthesis and Conformational Analysis of (Î±â€<scp>D</scp>â€Galactosyl)phenylmethane and Î±â€,Î²â€Difluoromethane Analogues: Interactions with the Plant Lectin Viscumin. Chemistry - A European Journal, 2009, 15, 2861-2873.	3.3	52
204	Fluorinated Carbohydrates as Lectin Ligands: Versatile Sensors in ¹⁹Fâ€Detected Saturation Transfer Difference NMR Spectroscopy. Chemistry - A European Journal, 2009, 15, 5666-5668.	3.3	60
205	Î±â€Oâ€Linked Glycopeptide Mimetics: Synthesis, Conformation Analysis, and Interactions with Viscumin, a Galactosideâ€Binding Model Lectin. Chemistry - A European Journal, 2009, 15, 10423-10431.	3.3	39
206	Conformational analysis of thioglycoside derivatives of histo-blood group ABH antigens using an ab initio-derived reparameterization of MM4: implications for design of non-hydrolysable mimetics. Journal of Computer-Aided Molecular Design, 2009, 23, 845-852.	2.9	13
207	Small angle neutron scattering as sensitive tool to detect ligand-dependent shape changes in a plant lectin with Î²-trefoil folding and their dependence on the nature of the solvent. Glycoconjugate Journal, 2009, 26, 111-116.	2.7	12
208	Detection of galectin-3 in patients with inflammatory bowel diseases: new serum marker of active forms of IBD?. Inflammation Research, 2009, 58, 503-512.	4.0	35
209	A lectin from the Chinese bird-hunting spider binds sialic acids. Carbohydrate Research, 2009, 344, 1515-1525.	2.3	15
210	Synthesis of Bivalent Lactosides Based on Terephthalamide, N,Nâ€²-Diglucosylterephthalamide, and Glycophane Scaffolds and Assessment of Their Inhibitory Capacity on Medically Relevant Lectins. Journal of Organic Chemistry, 2009, 74, 9010-9026.	3.2	55
211	Carbamate-Linked Lactose: Design of Clusters and Evidence for Selectivity to Block Binding of Human Lectins to (Neo)Glycoproteins with Increasing Degree of Branching and to Tumor Cells. Bioconjugate Chemistry, 2009, 20, 1716-1728.	3.6	34
212	Unique Chicken Tandem-Repeat-Type Galectin: Implications of Alternative Splicing and a Distinct Expression Profile Compared to Those of the Three Proto-Type Proteins. Biochemistry, 2009, 48, 4403-4416.	2.5	39
213	Detection and chromatographic removal of lipopolysaccharide in preparations of multifunctional galectins. Biochemical and Biophysical Research Communications, 2009, 379, 155-159.	2.1	17
214	Homodimeric Chicken Galectin CG-1B (C-14): Crystal Structure and Detection of Unique Redox-Dependent Shape Changes Involving Inter- and Intrasubunit Disulfide Bridges by Gel Filtration, Ultracentrifugation, Site-Directed Mutagenesis, and Peptide Mass Fingerprinting. Journal of Molecular Biology, 2009, 386, 366-378.	4.2	34
215	Glycosylation pattern of brush border-associated glycoproteins in enterocyte-like cells: involvement of complex-type N-glycans in apical trafficking. Biological Chemistry, 2009, 390, 529-44.	2.5	39
216	Galectin-1 Is a Novel Functional Receptor for Tissue Plasminogen Activator in Pancreatic Cancer. Gastroenterology, 2009, 136, 1379-1390.e5.	1.3	85

#	Article	IF	Citations
217	Phenylenediamine-based bivalent glycocyclophanes: synthesis and analysis of the influence of scaffold rigidity and ligand spacing on lectin binding in cell systems with different glycomic profiles. Organic and Biomolecular Chemistry, 2009, 7, 4715.	2.8	33
218	Inhibition of human retinal pigment epithelial cell attachment, spreading, and migration by the human lectin galectin-1. Molecular Vision, 2009, 15, 2162-73.	1.1	15
219	Identification of matrix metalloproteinase-9 as an independent prognostic marker in laryngeal and hypopharyngeal cancer with opposite correlations to adhesion/growth-regulatory galectins-1 and -7. International Journal of Oncology, 2009, 34, 433-9.	3.3	9
220	Galectin-8 up-regulation during hypopharyngeal and laryngeal tumor progression and comparison with galectin-1, -3 and -7. Anticancer Research, 2009, 29, 4933-40.	1.1	23
221	Cell-type-specific expression of murine multifunctional galectin-3 and its association with follicular atresia/luteolysis in contrast to pro-apoptotic galectins-1 and -7. Histochemistry and Cell Biology, 2008, 130, 567-581.	1.7	35
222	Calix[n]areneâ€Based Glycoclusters: Bioactivity of Thioureaâ€Linked Galactose/Lactose Moieties as Inhibitors of Binding of Medically Relevant Lectins to a Glycoprotein and Cellâ€Surface Glycoconjugates and Selectivity among Human Adhesion/Growthâ€Regulatory Galectins. ChemBioChem, 2008, 9, 1649-1661.	2.6	134
223	Human galectins as sensors for apoptosis/necrosisâ€associated surface changes of granulocytes and lymphocytes. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2008, 73A, 139-147.	1.5	34
224	Assessing the inhibitory potency of galectin ligands identified from combinatorial (glyco)peptide libraries using surface plasmon resonance spectroscopy. Analytical Biochemistry, 2008, 378, 190-196.	2.4	22
225	Galectin-3 Upregulation During Tumor Progression in Head and Neck Cancer. Laryngoscope, 2008, 118, 1583-1590.	2.0	35
226	Domain versatility in plant ABâ€toxins: Evidence for a local, pHâ€dependent rearrangement in the 2Î³ lectin site of the mistletoe lectin by applying ligand derivatives and modelling. FEBS Letters, 2008, 582, 2309-2312.	2.8	24
227	Phosphorylated human galectin-3: Facile large-scale preparation of active lectin and detection of structural changes by CD spectroscopy. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 716-722.	2.4	36
228	Single-Site Cys-Substituting Mutation of Human Lectin Galectin-2: Modulating Solubility in Recombinant Production, Reducing Long-Term Aggregation, and Enabling Site-Specific MonoPEGylation. Biomacromolecules, 2008, 9, 3223-3230.	5.4	19
229	Biological Information Transfer Beyond the Genetic Code: The Sugar Code. Biosemiotics Bookseries, 2008, , 223-246.	0.3	2
230	Prototype chicken galectins revisited: characterization of a third protein with distinctive hydrodynamic behaviour and expression pattern in organs of adult animals. Biochemical Journal, 2008, 409, 591-599.	3.7	46
231	Glycans: bioactive signals decoded by lectins. Biochemical Society Transactions, 2008, 36, 1491-1496.	3.4	80
232	Substitutions in theN-Glycan Core as Regulators of Biorecognition:Â The Case of Core-Fucose and Bisecting GlcNAc Moietiesâ€. Biochemistry, 2007, 46, 6984-6995.	2.5	93
233	Activityâ€“structure correlations in divergent lectin evolution: fine specificity of chicken galectin CG-14 and computational analysis of flexible ligand docking for CG-14 and the closely related CG-16. Glycobiology, 2007, 17, 165-184.	2.5	60
234	Marker profiling of normal keratinocytes identifies the stroma from squamous cell carcinoma of the oral cavity as a modulatory microenvironment in co-culture. International Journal of Radiation Biology, 2007, 83, 837-848.	1.8	29

#	Article	IF	Citations
235	Discovery of galectin ligands in fully randomized combinatorial one-bead-one-compound (glyco)peptide libraries. Bioorganic and Medicinal Chemistry Letters, 2007, 17, 793-798.	2.2	60
236	Tumor suppressor p16^{INK4a}â€ƒâ€”â€ƒmodulator of glycomic profile and galectinâ€1 expression to increase susceptibility to carbohydrateâ€dependent induction of anoikis in pancreatic carcinoma cells. FEBS Journal, 2007, 274, 3233-3256.	4.7	141
237	Photoderivatized Polymer Thin Films at Quartz Crystal Microbalance Surfaces:â€‰ Sensors for Carbohydrateâ€“Protein Interactions. Analytical Chemistry, 2007, 79, 6897-6902.	6.5	63
238	The conformation of the C-glycosyl analogue of N-acetyl-lactosamine in the free state and bound to a toxic plant agglutinin and human adhesion/growth-regulatory galectin-1. Carbohydrate Research, 2007, 342, 1918-1928.	2.3	23
239	Growth/adhesion-regulatory tissue lectin galectin-3: stromal presence but not cytoplasmic/nuclear expression in tumor cells as a negative prognostic factor in breast cancer. Anticancer Research, 2007, 27, 2131-9.	1.1	31
240	Carbohydrate recognition systems in autoimmunity. Autoimmunity, 2006, 39, 691-704.	2.6	64
241	Galectin 7 (p53-Induced Gene 1): A New Prognostic Predictor of Recurrence and Survival in Stage IV Hypopharyngeal Cancer. Annals of Surgical Oncology, 2006, 13, 999-1009.	1.5	67
242	Immunocyto- and histochemical profiling of nucleostemin expression: Marker of epidermal stem cells?. Journal of Dermatological Science, 2006, 44, 73-80.	1.9	14
243	Branching mode in complex-type triantennary N-glycans as regulatory element of their ligand properties. Biochimica Et Biophysica Acta - General Subjects, 2006, 1760, 768-782.	2.4	44
244	Unique sequence and expression profiles of rat galectins-5 and -9 as a result of species-specific gene divergence. International Journal of Biochemistry and Cell Biology, 2006, 38, 1741-1758.	2.8	47
245	Î±2,3/Î±2,6-Sialylation ofÂN-glycans: non-synonymous signals with marked developmental regulation inÂbovine reproductive tracts. Biochimie, 2006, 88, 399-410.	2.6	19
246	Characterization of patterns of expression of protein kinase C-Î±, -Î´, -Î·, -Î¾ and -Î¶ and their correlations to p53, galectin-3, the retinoic acid receptor-Î² and the macrophage migration inhibitory factor (MIF) in human cholesteatomas. Hearing Research, 2006, 214, 7-16.	2.0	6
247	Cell Surface Glycans: The Why and How of Their Functionality as Biochemical Signals in Lectin-Mediated Information Transfer. Critical Reviews in Immunology, 2006, 26, 43-80.	0.5	123
248	Glycomics and the Sugar Code: Primer to their Structural Basis and Functionality. , 2006, , 23-51.		1
249	Glycosyldisulfides from dynamic combinatorial libraries as O-glycoside mimetics for plant and endogenous lectins: Their reactivities in solid-phase and cell assays and conformational analysis by molecular dynamics simulations. Bioorganic and Medicinal Chemistry, 2006, 14, 6314-6326.	3.0	121
250	Enhanced signal dispersion in saturation transfer difference experiments by conversion to a 1D-STD-homodecoupled spectrum. Journal of Biomolecular NMR, 2006, 36, 103-109.	2.8	4
251	Towards functional glycomics by localization of binding sites for tissue lectins: lectin histochemical reactivity for galectins during diethylstilbestrol-induced kidney tumorigenesis in male Syrian hamster. Histochemistry and Cell Biology, 2006, 126, 57-69.	1.7	9
252	Carbohydrate Chain of Ganglioside GM1 as a Ligand: Identification of the Binding Strategies of Three 15 mer Peptides and Their Divergence from the Binding Modes of Growth-Regulatory Galectin-1 and Cholera Toxin. Chemistry - A European Journal, 2006, 12, 388-402.	3.3	35

#	Article	IF	Citations
253	Tumor-associated antigen 90K/Mac-2-binding protein: Possible role in colon cancer. Journal of Cellular Biochemistry, 2006, 98, 1351-1366.	2.6	49
254	Interaction profile of galectin-5 with free saccharides and mammalian glycoproteins: probing its fine specificity and the effect of naturally clustered ligand presentation. Glycobiology, 2006, 16, 524-537.	2.5	47
255	Î±2,6-Sialylation promotes binding of placental protein 14 via its Ca2+-dependent lectin activity: insights into differential effects on CD45RO and CD45RA T cells. Glycobiology, 2006, 16, 173-183.	2.5	30
256	Hevein Domains: An Attractive Model to Study Carbohydrateâ€“Protein Interactions at Atomic Resolution. Advances in Carbohydrate Chemistry and Biochemistry, 2006, 60, 303-354.	0.9	55
257	The emerging functionality of endogenous lectins: A primer to the concept and a case study on galectins including medical implications. Chang Gung Medical Journal, 2006, 29, 37-62.	0.7	9
258	Monitoring the Expression Profiles of Integrins and Adhesion/Growth-regulatory Galectins in Adamantinomatous Craniopharyngiomas: Their Ability to Regulate Tumor Adhesiveness to Surrounding Tissue and Their Contribution to Prognosis. Neurosurgery, 2005, 56, 763-776.	1.1	20
259	Localized fibrous tumors (LFTs) of the pleura: Clinical data, asbestos burden, and syntactic structure analysis applied to newly defined angiogenic/growth-regulatory effectors. Pathology Research and Practice, 2005, 201, 791-801.	2.3	16
260	Identification of peptide ligands for malignancy- and growth-regulating galectins using random phage-display and designed combinatorial peptide libraries. Bioorganic and Medicinal Chemistry, 2005, 13, 563-573.	3.0	36
261	Introduction of extended LEC14-type branching into core-fucosylated biantennary N-glycan. FEBS Journal, 2005, 272, 1986-1998.	4.7	40
262	Determination of structural and functional overlap/divergence of five proto-type galectins by analysis of the growth-regulatory interaction with ganglioside GM1in silicoandin vitroon human neuroblastoma cells. International Journal of Cancer, 2005, 114, 46-57.	5.1	95
263	Toward functional glycomics by localization of tissue lectins: immunohistochemical galectin fingerprinting during diethylstilbestrol-induced kidney tumorigenesis in male Syrian hamster. Histochemistry and Cell Biology, 2005, 123, 29-41.	1.7	20
264	Comparative phenotypic characterization of keratinocytes originating from hair follicles. Journal of Molecular Histology, 2005, 36, 89-96.	2.2	20
265	The asialoglycoprotein receptor clears glycoconjugates terminating with sialic acidÂ2,6GalNAc. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17125-17129.	7.1	145
266	Galectin-1 Interacts with the Î±5Î²1 Fibronectin Receptor to Restrict Carcinoma Cell Growth via Induction of p21 and p27. Journal of Biological Chemistry, 2005, 280, 37266-37277.	3.4	148
267	Prognostic Significance of Endogenous Adhesion/Growth-Regulatory Lectins in Lung Cancer. Oncology, 2005, 69, 167-174.	1.9	77
268	Evidence for lectin activity of a plant receptor-like protein kinase by application of neoglycoproteins and bioinformatic algorithms. Biochimica Et Biophysica Acta - General Subjects, 2005, 1725, 222-232.	2.4	30
269	Galectin-1 knocking down in human U87 glioblastoma cells alters their gene expression pattern. Biochemical and Biophysical Research Communications, 2005, 335, 27-35.	2.1	55
270	Galectin-1(L11A) Predicted from a Computed Galectin-1 Farnesyl-Binding Pocket Selectively Inhibits Ras-GTP. Cancer Research, 2004, 64, 3112-3118.	0.9	146

#	Article	IF	Citations
271	Budesonide-Dependent Modulation of Expression of Macrophage Migration Inhibitory Factor in a Polyposis Model: Evidence for Differential Regulation in Surface and Glandular Epithelia. Annals of Otology, Rhinology and Laryngology, 2004, 113, 544-551.	1.1	5
272	Human Galectin-2: Novel Inducer of T Cell Apoptosis with Distinct Profile of Caspase Activation. Journal of Immunology, 2004, 173, 3825-3837.	0.8	193
273	Hippocampal neurons and recombinant galectins as tools for systematic carbohydrate structureâ€"function studies in neuronal differentiation. Developmental Brain Research, 2004, 153, 189-196.	1.7	15
274	Gene design, expression, crystallization and preliminary diffraction analysis of two isolectins from the fungusCoprinus cinereus: a model for studying functional diversification of galectins in the same organism and their evolutionary pathways. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 721-724.	2.5	4
275	Determination of modulation of ligand properties of synthetic complexâ€type biantennary Nâ€glycans by introduction of bisecting GlcNAc in silico, in vitro and in vivo. FEBS Journal, 2004, 271, 118-134.	0.2	108
276	Chemical Biology of the Sugar Code. ChemBioChem, 2004, 5, 740-764.	2.6	466
277	Interference of the galactose-dependent binding of lectins by novel pentapeptide ligands. Bioorganic and Medicinal Chemistry Letters, 2004, 14, 1437-1440.	2.2	34
278	Effects of polyvalency of glycotopes and natural modifications of human blood group ABH/Lewis sugars at the GalÎ²1-terminated core saccharides on the binding of domain-I of recombinant tandem-repeat-type galectin-4 from rat gastrointestinal tract (G4-N). Biochimie, 2004, 86, 317-326.	2.6	103
279	Galectin-3 â€" an emerging prognostic indicator in advanced head and neck carcinoma. European Journal of Cancer, 2004, 40, 2324-2330.	2.8	67
280	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
281	Persubstituted Cyclodextrin-Based Glycoclusters as Inhibitors of Proteinâ^'Carbohydrate Recognition Using Purified Plant and Mammalian Lectins and Wild-Type and Lectin-Gene-Transfected Tumor Cells as Targets. Bioconjugate Chemistry, 2004, 15, 87-98.	3.6	158
282	Analysis of selected blood and immune cell responses to carbohydrate-dependent surface binding of proto- and chimera-type galectins. Molecular and Cellular Biochemistry, 2003, 250, 139-149.	3.1	24
283	Tumor galectinology: Insights into the complex network of a family of endogenous lectins. Glycoconjugate Journal, 2003, 20, 227-238.	2.7	128
284	Chromosomal Aberrations, Profiles of Expression of Growth-related Markers Including Galectins and Environmental Hazards in Relation to the Incidence of Chondroid Pulmonary Hamartomas. Pathology Research and Practice, 2003, 199, 589-598.	2.3	16
285	Suitability of binary mixtures of water with aprotic solvents to turn hydroxyl protons of carbohydrate ligands into conformational sensors in NOE and transferred NOE experiments. Journal of Biomolecular NMR, 2003, 25, 197-215.	2.8	24
286	New aspects of galectin functionality in nuclei of cultured bone marrow stromal and epidermal cells: biotinylated galectins as tool to detect specific binding sites. Biology of the Cell, 2003, 95, 535-545.	2.0	74
287	Refined prognostic evaluation in colon carcinoma using immunohistochemical galectin fingerprinting. Cancer, 2003, 97, 1849-1858.	4.1	137
288	Homodimeric galectin-7 (p53-induced gene 1) is a negative growth regulator for human neuroblastoma cells. Oncogene, 2003, 22, 6277-6288.	5.9	142

#	Article	IF	Citations
289	Prognostic Values of Galectin-3 and the Macrophage Migration Inhibitory Factor (MIF) in Human Colorectal Cancers. Modern Pathology, 2003, 16, 491-504.	5.5	88
290	Atypical adenomatous hyperplasia of lung: its incidence and analysis of clinical, glycohistochemical and structural features including newly defined growth regulators and vascularization. Lung Cancer, 2003, 42, 171-182.	2.0	31
291	Detection of Ligand- and Solvent-Induced Shape Alterations of Cell-Growth-Regulatory Human Lectin Galectin-1 in Solution by Small Angle Neutron and X-Ray Scattering. Biophysical Journal, 2003, 85, 511-524.	0.5	69
292	Unique Conformer Selection of Human Growth-Regulatory Lectin Galectin-1 for Ganglioside GM₁ versus Bacterial Toxins[,]. Biochemistry, 2003, 42, 14762-14773.	2.5	131
293	Characterization of the levels of expression of retinoic acid receptors, galectin-3, macrophage migration inhibiting factor, and p53 in 51 adamantinomatous craniopharyngiomas. Journal of Neurosurgery, 2003, 98, 145-153.	1.6	26
294	Describing Topology of Bound Ligand by Transferred Nuclear Overhauser Effect Spectroscopy and Molecular Modeling. Methods in Enzymology, 2003, 362, 417-434.	1.0	23
295	Galectin-3, an Endogenous Lectin, as a Tool for Monitoring Cell Differentiation in Head and Neck Carcinomas with Implications for Lectinâ€“Glycan Functionality. Acta Oto-Laryngologica, 2003, 123, 261-263.	0.9	13
296	Differentiation-Dependent Glycosylation of Cells in Squamous Cell Epithelia Detected by a Mammalian Lectin. Cells Tissues Organs, 2002, 171, 135-144.	2.3	28
297	Galectin-1 Modulates Human Glioblastoma Cell Migration into the Brain Through Modifications to the Actin Cytoskeleton and Levels of Expression of Small GTPases. Journal of Neuropathology and Experimental Neurology, 2002, 61, 585-596.	1.7	175
298	Fine specificity of domain-I of recombinant tandem-repeat-type galectin-4 from rat gastrointestinal tract (G4-N). Biochemical Journal, 2002, 367, 653-664.	3.7	55
299	Structureâ^'Activity Profiles of Complex Biantennary Glycans with Core Fucosylation and with/without Additional Î±2,3/Î±2,6 Sialylation:â€‰ Synthesis of Neoglycoproteins and Their Properties in Lectin Assays, Cell Binding, and Organ Uptake. Journal of Medicinal Chemistry, 2002, 45, 478-491.	6.4	122
300	Analysis of Proteinâ^'Carbohydrate Interaction at the Lower Size Limit of the Protein Part (15-Mer) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Biochemistry, 2002, 41, 9707-9717.	2.5	35
301	The sugar code: functional lectinomics. Biochimica Et Biophysica Acta - General Subjects, 2002, 1572, 165-177.	2.4	290
302	Web Site: The Gallery of Sweet Rendezvous. Angewandte Chemie - International Edition, 2002, 41, 4591-4591.	13.8	0
303	Galectin-1 and galectin-3 in fetal development of bovine respiratory and digestive tracts. Cell and Tissue Research, 2002, 307, 35-46.	2.9	91
304	Defining the glycophenotype of squamous epithelia using plant and mammalian lectins. Differentiationâ€dependent expression of Î±2,6â€•and Î±2,3â€linked Nâ€acetylneuraminic acid in squamous epithelia and carcinomas, and its differential effect on binding of the endogenous lectins galectinsâ€1 and â€3. Apmis, 2002, 110, 845-856.	2.0	38
305	Changes in Galectin-7 and Cytokeratin-19 Expression during the Progression of Malignancy in Thyroid Tumors: Diagnostic and Biological Implications. Modern Pathology, 2002, 15, 1294-1301.	5.5	56
306	NMR investigations of proteinâ€“carbohydrate interactions: insights into the topology of the bound conformation of a lactose isomer and Î²-galactosyl xyloses to mistletoe lectin and galectin-1. Biochimica Et Biophysica Acta - General Subjects, 2001, 1568, 225-236.	2.4	31

#	Article	IF	Citations
307	Probing the cons and pros of lectin-induced immunomodulation: Case studies for the mistletoe lectin and galectin-1. Biochimie, 2001, 83, 659-666.	2.6	95
308	Negative Regulation of Neuroblastoma Cell Growth by Carbohydrate-dependent Surface Binding of Galectin-1 and Functional Divergence from Galectin-3. Journal of Biological Chemistry, 2001, 276, 35917-35923.	3.4	256
309	Endobronchial juvenile hemangioma - a case report of a neonate including immunohistochemical monitoring and nuclear, cellular, and vascular morphometry. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2001, 438, 192-197.	2.8	18
310	Comprehensive galectin fingerprinting in a panel of 61 human tumor cell lines by RT-PCR and its implications for diagnostic and therapeutic procedures. Journal of Cancer Research and Clinical Oncology, 2001, 127, 375-386.	2.5	193
311	Glyco- and immunohistochemical refinement of the differential diagnosis between mesothelioma and metastatic carcinoma and survival analysis of patients. Journal of Pathology, 2001, 193, 175-180.	4.5	32
312	Galectin-1 is highly expressed in human gliomas with relevance for modulation of invasion of tumor astrocytes into the brain parenchyma. Glia, 2001, 33, 241-255.	4.9	148
313	Wedgelike Glycodendrimers as Inhibitors of Binding of Mammalian Galectins to Glycoproteins, Lactose Maxiclusters, and Cell Surface Glycoconjugates. ChemBioChem, 2001, 2, 822.	2.6	206
314	The Levels of Expression of Galectin-3, But Not of Galectin-1 and Galectin-8, Correlate With Apoptosis in Human Cholesteatomas. Laryngoscope, 2001, 111, 1042-1047.	2.0	31
315	Detection of Macrophage Migration Inhibitory Factor (MIF) in Human Cholesteatomas and Functional Implications of Correlations to Recurrence Status and to Expression of Matrix Metalloproteinases-3/9, Retinoic Acid Receptor-??, and Anti-apoptotic Galectin-3. Laryngoscope, 2001, 111, 1656-1662.	2.0	25
316	Evidence for Stimulation of Tumor Proliferation in Cell Lines and Histotypic Cultures by Clinically Relevant Low Doses of the Galactoside-Binding Mistletoe Lectin, A Component of Proprietary Extracts. Cancer Investigation, 2001, 19, 114-126.	1.3	96
317	Galectins Are Differentially Expressed in Supratentorial Pilocytic Astrocytomas, Astrocytomas, Anaplastic Astrocytomas and Glioblastomas, and Significantly Modulate Tumor Astrocyte Migration. Brain Pathology, 2001, 11, 12-26.	4.1	153
318	Lectins and Glycoconjugates. Journal of Chromatography Library, 2000, 61, 619-638.	0.1	3
319	NMR investigations of protein-carbohydrate interactions: Studies on the relevance of Trp/Tyr variations in lectin binding sites as deduced from titration microcalorimetry and NMR studies on hevein domains. Determination of the NMR structure of the complex between pseudohevein and N,N?,N?-triacetylchitotriose. , 2000, 40, 218-236.		59
320	A New Combined Computational and NMR-Spectroscopical Strategy for the Identification of Additional Conformational Constraints of the Bound Ligand in an Aprotic Solvent. ChemBioChem, 2000, 1, 181-195.	2.6	49
321	NMR investigations of protein-carbohydrate interactions. FEBS Journal, 2000, 267, 3965-3978.	0.2	46
322	Structural basis for chitin recognition by defense proteins: GlcNAc residues are bound in a multivalent fashion by extended binding sites in hevein domains. Chemistry and Biology, 2000, 7, 529-543.	6.0	131
323	Temporal and spatial regulation of expression of two galectins during kidney development of the chicken. The Histochemical Journal, 2000, 32, 325-336.	0.6	17
324	Benign metastasizing leiomyoma of the uterus: documentation of clinical, immunohistochemical and lectin-histochemical data of ten cases. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2000, 437, 284-292.	2.8	162

#	Article	IF	Citations
325	Medicinal Chemistry Based on the Sugar Code: Fundamentals of Lectinology and Experimental Strategies with Lectins as Targets. Current Medicinal Chemistry, 2000, 7, 389-416.	2.4	122
326	Differences in Zero-Force and Force-Driven Kinetics of Ligand Dissociation from Î²-Galactoside-Specific Proteins (Plant and Animal Lectins, Immunoglobulin G) Monitored by Plasmon Resonance and Dynamic Single Molecule Force Microscopy. Archives of Biochemistry and Biophysics, 2000, 383, 157-170.	3.0	114
327	Determination of the Levels of Expression of Sarcolectin and Calcyclin and of the Percentages of Apoptotic But Not Proliferating Cells to Enable Distinction Between Recurrent and Nonrecurrent Cholesteatomas. Laryngoscope, 1999, 109, 1825-1831.	2.0	31
328	In vitro influence of lectins and neoglycoconjugates on the growth of three human sarcoma cell lines. Journal of Cancer Research and Clinical Oncology, 1999, 125, 275-285.	2.5	17
329	Galectins-1 and -3 and their ligands in tumor biology. Journal of Cancer Research and Clinical Oncology, 1999, 125, 461-474.	2.5	181
330	The application of thermodynamic principles to histochemical and morphometric tissue research: principles and practical outline with focus on the glycosciences. Cell and Tissue Research, 1999, 296, 443-455.	2.9	35
331	The levels of expression of galectin-1, galectin-3, and the Thomsen-Friedenreich antigen and their binding sites decrease as clinical aggressiveness increases in head and neck cancers. Cancer, 1999, 86, 2353-2363.	4.1	81
332	Microcalorimetric indications for ligand binding as a function of the protein for galactoside-specific plant and avian lectins. Biochimica Et Biophysica Acta - General Subjects, 1999, 1472, 191-196.	2.4	34
333	The 2.15 Ã... crystal structure of CG-16, the developmentally regulated homodimeric chicken galectin. Journal of Molecular Biology, 1999, 294, 537-549.	4.2	70
334	Coexpression of binding sites for A(B) histo-blood group trisaccharides with galectin-3 and Lag antigen in human Langerhans cells. Journal of Leukocyte Biology, 1999, 66, 644-649.	3.3	27
335	The levels of expression of galectin-1, galectin-3, and the Thomsenâ€“Friedenreich antigen and their binding sites decrease as clinical aggressiveness increases in head and neck cancers. , 1999, 86, 2353.		2
336	The how and why of protein-carbohydrate interaction: a primer to the theoretical concept and a guide to application in drug design. Pharmaceutical Research, 1998, 15, 23-30.	3.5	85
337	Conformer selection and differential restriction of ligand mobility by a plant lectin. Conformational behaviour of Galbeta1-3GlcNAcbeta1-R, Galbeta1-3GalNAcbeta1-R and Galbeta1-2Galbeta1-R' in the free state and complexed with galactoside-specific mistletoe lectin as revealed by random-walk and conformational-clustering molecular-mechanics calculations, molecular-dynamics simulations and nuclear Overhauser experiments. FEBS Journal, 1998, 252, 416-427.	0.2	41
338	Quantitative glycohistochemistry defines new prognostic markers for cancers of the oral cavity. , 1998, 82, 252-260.		32
339	Inability of galactoside-specific mistletoe lectin to inhibit N-methyl-N-nitrosourea-induced tumor development in the urinary bladder of rats and to mediate a local cellular immune response after long-term administration. Journal of Cancer Research and Clinical Oncology, 1998, 124, 73-87.	2.5	24
340	Beyond Plant Lectin Histochemistry: Preparation and Application of Markers to Visualize the Cellular Capacity for Protein-Carbohydrate Recognition. Biotechnic and Histochemistry, 1998, 73, 263-277.	1.3	26
341	Galectin-1 Is a Major Receptor for Ganglioside GM1, a Product of the Growth-controlling Activity of a Cell Surface Ganglioside Sialidase, on Human Neuroblastoma Cells in Culture. Journal of Biological Chemistry, 1998, 273, 11205-11211.	3.4	263
342	Concepts of Tumor Lectinology. Cancer Investigation, 1997, 15, 454-464.	1.3	105

#	Article	IF	Citations
343	Neoglycoproteins with the Synthetic Complex Biantennary Nonasaccharide or Its Î±2,3/Î±2,6-Sialylated Derivatives:Â Their Preparation, Assessment of Their Ligand Properties for Purified Lectins, for Tumor Cellsin Vitro, and in Tissue Sections, and Their Biodistribution in Tumor-Bearing Mice. Bioconjugate Chemistry, 1997, 8, 845-855.	3.6	100
344	Graph Theory and the EntropyConcept in Histochemistry. Progress in Histochemistry and Cytochemistry, 1997, 32, III-102.	5.1	20
345	Involvement of Laser Photo-CIDNP(Chemically Induced Dynamic Nuclear Polarization)-Reactive Amino Acid Side Chains in Ligand Binding by Galactoside-Specific Lectins in Solution. FEBS Journal, 1997, 249, 27-38.	0.2	59
346	Animal Lectins. FEBS Journal, 1997, 243, 543-576.	0.2	365
347	Tyramine-containing poly(4-nitrophenylacrylate) as iodinatable ligand carrier in biodistribution analysis. Pharmaceutical Research, 1997, 14, 879-886.	3.5	15
348	Role of aromatic amino acids in carbohydrate binding of plant lectins: Laser photo chemically induced dynamic nuclear polarization study of hevein domain-containing lectins. Proteins: Structure, Function and Bioinformatics, 1997, 28, 268-284.	2.6	49
349	NMR-Based, Molecular Dynamics- and Random Walk Molecular Mechanics-Supported Study of Conformational Aspects of a Carbohydrate Ligand (GalÎ²1-2GalÎ²1-R) for an Animal Galectin in the Free and in the Bound State. Biochemical and Biophysical Research Communications, 1996, 219, 205-212.	2.1	52
350	Carcinoid tumors of the lung: Immuno- and ligandohistochemistry, analysis of integrated optical density, syntactic structure analysis, clinical data, and prognosis of patients treated surgically. , 1996, 63, 99-106.		39
351	Molecular dynamics-derived conformation and intramolecular interaction analysis of the N-acetyl-9-O-acetylneuraminic acid-containing ganglioside GD1a and NMR-based analysis of its binding to a human polyclonal inununoglobulin G fraction with selectivity for O-acetylated sialic acids. Glycobiology, 1996, 6, 561-571.	2.5	49
352	Comparative cross-linking activities of lactose-specific plant and animal lectins and a natural lactose-binding immunoglobulin G fraction from human serum with asialofetuin. Glycobiology, 1996, 6, 843-849.	2.5	103
353	Different Architecture of the Combining Site of the Two Chicken Galectins Revealed by Chemical Mapping Studies with Synthetic Ligand Derivatives. Journal of Biological Chemistry, 1996, 271, 12744-12748.	3.4	68
354	Differential Binding of Two Chicken Î²-Galactoside-Specific Lectins to Homologous Lymphocyte Subpopulations and Evidence for Inhibitor Activity of the Dimeric Lectin on Stimulated T Cells. Cellular Immunology, 1995, 166, 35-43.	3.0	45
355	Protein-Zucker-Erkennung Grundlagen und Medizinische Anwendung am Beispiel der Tumorlektinologie. Die Naturwissenschaften, 1995, 82, 533-543.	1.6	42
356	Non-carbohydrate binding partners/domains of animal lectins. International Journal of Biochemistry & Cell Biology, 1994, 26, 469-477.	0.5	50
357	[4] Detection and quantification of carbohydrate-binding sites on cell surfaces and in tissue sections by neoglycoproteins. Methods in Enzymology, 1994, 242, 37-46.	1.0	14
358	Identification of annexin II, annexin VI and glyceraldehyde-3-phosphate dehydrogenase as calcyclin-binding proteins in bovine heart. International Journal of Biochemistry & Cell Biology, 1993, 25, 1019-1027.	0.5	74
359	Adhesion of human lymphoid cell lines to immobilized carbohydrates and to bone-marrow stromal cell layers by surface sugar receptors. International Journal of Cancer, 1993, 54, 1017-1021.	5.1	13
360	Sialic Acid-Binding Proteins: Characterization, Biological Function and Application. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 1992, 47, 641-653.	1.4	34

#	Article	IF	Citations
361	Influence of type of linkage and spacer on the interaction of Î²-galactoside-binding proteins with immobilized affinity ligands. Analytical Biochemistry, 1990, 189, 91-94.	2.4	179
362	Tissue Distribution of Radioiodinated Neoglycoproteins and Mammalian Lectins. Biological Chemistry Hoppe-Seyler, 1990, 371, 331-338.	1.4	22
363	Histopathologic evaluation of application of labeled neoglycoproteins in primary bronchus carcinoma. Human Pathology, 1989, 20, 352-360.	2.0	13
364	Tumor Lectinology: At the Intersection of Carbohydrate Chemistry, Biochemistry, Cell Biology, and Oncology. Angewandte Chemie International Edition in English, 1988, 27, 1267-1276.	4.4	87
365	(Neo)glycoproteins as tools in neuropathology: Histochemical patterns of the extent of expression of endogenous carbohydrate-binding receptors, like lectins, in meningiomas. Vigiliae Christianae, 1988, 56, 35-43.	0.1	17
366	Effect of microenvironment and cell-line type on carbohydrate-binding proteins of macrophage-like cells. Biochemistry and Cell Biology, 1988, 66, 1169-1176.	2.0	16
367	Tumorlectinologie: Ein Gebiet im Schnittpunkt von Zuckerchemie, Biochemie, Zellbiologie und Onkologie. Angewandte Chemie, 1988, 100, 1321-1330.	2.0	19
368	Localization of endogenous lectins in normal human breast, benign breast lesions and mammary carcinomas. Vigiliae Christianae, 1986, 52, 107-115.	0.1	79
369	Receptor for the cell binding site of discoidin I. Cell, 1985, 42, 449-456.	28.9	99
370	Galectins as Regulators of Tumor Growth and Invasion by Targeting Distinct Cell Surface Glycans and Implications for Drug Design. , 0, , 71-85.		4