

Hans-Joachim Gabius

List of Publications by Year in descending order

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370
papers

18,631
citations

10389

72
h-index

23533

111
g-index

376
all docs

376
docs citations

376
times ranked

10956
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Biology of the Sugar Code. <i>ChemBioChem</i> , 2004, 5, 740-764.	2.6	466
2	From lectin structure to functional glycomics: principles of the sugar code. <i>Trends in Biochemical Sciences</i> , 2011, 36, 298-313.	7.5	436
3	Animal Lectins. <i>FEBS Journal</i> , 1997, 243, 543-576.	0.2	365
4	The sugar code: functional lectinomics. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2002, 1572, 165-177.	2.4	290
5	Growth-regulatory Human Galectin-1: Crystallographic Characterisation of the Structural Changes Induced by Single-site Mutations and their Impact on the Thermodynamics of Ligand Binding. <i>Journal of Molecular Biology</i> , 2004, 343, 957-970.	4.2	277
6	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. <i>Journal of Biological Chemistry</i> , 1998, 273, 11205-11211.	3.4	263
7	Negative Regulation of Neuroblastoma Cell Growth by Carbohydrate-dependent Surface Binding of Galectin-1 and Functional Divergence from Galectin-3. <i>Journal of Biological Chemistry</i> , 2001, 276, 35917-35923.	3.4	256
8	Galectin-5 is bound onto the surface of rat reticulocyte exosomes and modulates vesicle uptake by macrophages. <i>Blood</i> , 2010, 115, 696-705.	1.4	250
9	Wedgelike Glycodendrimers as Inhibitors of Binding of Mammalian Galectins to Glycoproteins, Lactose Maxiclusters, and Cell Surface Glycoconjugates. <i>ChemBioChem</i> , 2001, 2, 822.	2.6	206
10	Comprehensive galectin fingerprinting in a panel of 61 human tumor cell lines by RT-PCR and its implications for diagnostic and therapeutic procedures. <i>Journal of Cancer Research and Clinical Oncology</i> , 2001, 127, 375-386.	2.5	193
11	Human Galectin-2: Novel Inducer of T Cell Apoptosis with Distinct Profile of Caspase Activation. <i>Journal of Immunology</i> , 2004, 173, 3825-3837.	0.8	193
12	A guide into glycosciences: How chemistry, biochemistry and biology cooperate to crack the sugar code. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 186-235.	2.4	188
13	Galectins-1 and -3 and their ligands in tumor biology. <i>Journal of Cancer Research and Clinical Oncology</i> , 1999, 125, 461-474.	2.5	181
14	Influence of type of linkage and spacer on the interaction of β -galactoside-binding proteins with immobilized affinity ligands. <i>Analytical Biochemistry</i> , 1990, 189, 91-94.	2.4	179
15	Cross-Linking of GM1 Ganglioside by Galectin-1 Mediates Regulatory T Cell Activity Involving TRPC5 Channel Activation: Possible Role in Suppressing Experimental Autoimmune Encephalomyelitis. <i>Journal of Immunology</i> , 2009, 182, 4036-4045.	0.8	177
16	Galectin-1 Modulates Human Glioblastoma Cell Migration into the Brain Through Modifications to the Actin Cytoskeleton and Levels of Expression of Small GTPases. <i>Journal of Neuropathology and Experimental Neurology</i> , 2002, 61, 585-596.	1.7	175
17	Benign metastasizing leiomyoma of the uterus: documentation of clinical, immunohistochemical and lectin-histochemical data of ten cases. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2000, 437, 284-292.	2.8	162
18	Persubstituted Cyclodextrin-Based Glycoclusters as Inhibitors of Protein-Carbohydrate Recognition Using Purified Plant and Mammalian Lectins and Wild-Type and Lectin-Gene-Transfected Tumor Cells as Targets. <i>Bioconjugate Chemistry</i> , 2004, 15, 87-98.	3.6	158

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19	Galectins Are Differentially Expressed in Supratentorial Pilocytic Astrocytomas, Astrocytomas, Anaplastic Astrocytomas and Glioblastomas, and Significantly Modulate Tumor Astrocyte Migration. <i>Brain Pathology</i> , 2001, 11, 12-26.	4.1	153
20	Galectin-1 is highly expressed in human gliomas with relevance for modulation of invasion of tumor astrocytes into the brain parenchyma. <i>Glia</i> , 2001, 33, 241-255.	4.9	148
21	Galectin-1 Interacts with the β 1 Fibronectin Receptor to Restrict Carcinoma Cell Growth via Induction of p21 and p27. <i>Journal of Biological Chemistry</i> , 2005, 280, 37266-37277.	3.4	148
22	Galectin-1 (L11A) Predicted from a Computed Galectin-1 Farnesyl-Binding Pocket Selectively Inhibits Ras-GTP. <i>Cancer Research</i> , 2004, 64, 3112-3118.	0.9	146
23	The asialoglycoprotein receptor clears glycoconjugates terminating with sialic acid α 2,6GalNAc. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17125-17129.	7.1	145
24	Homodimeric galectin-7 (p53-induced gene 1) is a negative growth regulator for human neuroblastoma cells. <i>Oncogene</i> , 2003, 22, 6277-6288.	5.9	142
25	Tumor suppressor p16 ^{INK4a} modulator of glycomic profile and galectin-1 expression to increase susceptibility to carbohydrate-dependent induction of anoikis in pancreatic carcinoma cells. <i>FEBS Journal</i> , 2007, 274, 3233-3256.	4.7	141
26	Refined prognostic evaluation in colon carcinoma using immunohistochemical galectin fingerprinting. <i>Cancer</i> , 2003, 97, 1849-1858.	4.1	137
27	Calixarene-Based Glycoclusters: Bioactivity of Thiourea-Linked Galactose/Lactose Moieties as Inhibitors of Binding of Medically Relevant Lectins to a Glycoprotein and Cell Surface Glycoconjugates and Selectivity among Human Adhesion/Growth-Regulatory Galectins. <i>ChemBioChem</i> , 2008, 9, 1649-1661.	2.6	134
28	Structural basis for chitin recognition by defense proteins: GlcNAc residues are bound in a multivalent fashion by extended binding sites in hevein domains. <i>Chemistry and Biology</i> , 2000, 7, 529-543.	6.0	131
29	Unique Conformer Selection of Human Growth-Regulatory Lectin Galectin-1 for Ganglioside GM ₁ versus Bacterial Toxins. <i>Biochemistry</i> , 2003, 42, 14762-14773.	2.5	131
30	Tumor galectinology: Insights into the complex network of a family of endogenous lectins. <i>Glycoconjugate Journal</i> , 2003, 20, 227-238.	2.7	128
31	Cell Surface Glycans: The Why and How of Their Functionality as Biochemical Signals in Lectin-Mediated Information Transfer. <i>Critical Reviews in Immunology</i> , 2006, 26, 43-80.	0.5	123
32	Medicinal Chemistry Based on the Sugar Code: Fundamentals of Lectinology and Experimental Strategies with Lectins as Targets. <i>Current Medicinal Chemistry</i> , 2000, 7, 389-416.	2.4	122
33	Structure-Activity Profiles of Complex Biantennary Glycans with Core Fucosylation and with/without Additional β 2,3/ β 2,6 Sialylation: Synthesis of Neoglycoproteins and Their Properties in Lectin Assays, Cell Binding, and Organ Uptake. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 478-491.	6.4	122
34	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. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 6314-6326.	3.0	121
35	Tumor suppressor p16 ^{INK4a} : Downregulation of galectin-3, an endogenous competitor of the pro-anoikis effector galectin-1, in a pancreatic carcinoma model. <i>FEBS Journal</i> , 2010, 277, 3552-3563.	4.7	115
36	Differences in Zero-Force and Force-Driven Kinetics of Ligand Dissociation from β -Galactoside-Specific Proteins (Plant and Animal Lectins, Immunoglobulin G) Monitored by Plasmon Resonance and Dynamic Single Molecule Force Microscopy. <i>Archives of Biochemistry and Biophysics</i> , 2000, 383, 157-170.	3.0	114

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37	Targeting galectin-1 inhibits pancreatic cancer progression by modulating tumor-stroma crosstalk. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3769-E3778.	7.1	114
38	Galectins: their network and roles in immunity/tumor growth control. Histochemistry and Cell Biology, 2017, 147, 239-256.	1.7	111
39	Determination of modulation of ligand properties of synthetic complex-type biantennary N-glycans by introduction of bisecting GlcNAc <i>in silico</i> , <i>in vitro</i> and <i>in vivo</i> . FEBS Journal, 2004, 271, 118-134.	0.2	108
40	Tumour suppressor p16 ^{INK4a} favours decrease in N-glycan/cell surface sialylation by down-regulation of enzymes in sialic acid biosynthesis in tandem in a pancreatic carcinoma model. FEBS Journal, 2012, 279, 4062-4080.	4.7	108
41	Lectins: a primer for histochemists and cell biologists. Histochemistry and Cell Biology, 2017, 147, 199-222.	1.7	107
42	Concepts of Tumor Lectinology. Cancer Investigation, 1997, 15, 454-464.	1.3	105
43	An introduction to the sugar code. Histochemistry and Cell Biology, 2017, 147, 111-117.	1.7	105
44	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
45	Effects of polyvalency of glycotopes and natural modifications of human blood group ABH/Lewis sugars at the Gal ² 1-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
46	Neoglycoproteins with the Synthetic Complex Biantennary Nonasaccharide or Its $\pm 2,3/\pm 2,6$ -Sialylated Derivatives: Their Preparation, Assessment of Their Ligand Properties for Purified Lectins, for Tumor Cells <i>in Vitro</i> , and in Tissue Sections, and Their Biodistribution in Tumor-Bearing Mice. Bioconjugate Chemistry, 1997, 8, 845-855.	3.6	100
47	Receptor for the cell binding site of discoidin I. Cell, 1985, 42, 449-456.	28.9	99
48	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
49	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
50	Determination of structural and functional overlap/divergence of five proto-type galectins by analysis of the growth-regulatory interaction with ganglioside GM1 <i>in silico</i> and <i>in vitro</i> on human neuroblastoma cells. International Journal of Cancer, 2005, 114, 46-57.	5.1	95
51	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
52	Substitutions in the N-Glycan Core as Regulators of Biorecognition: The Case of Core-Fucose and Bisecting GlcNAc Moieties. Biochemistry, 2007, 46, 6984-6995.	2.5	93
53	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
54	Engineering a Therapeutic Lectin by Uncoupling Mitogenicity from Antiviral Activity. Cell, 2015, 163, 746-758.	28.9	89

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55	Prognostic Values of Galectin-3 and the Macrophage Migration Inhibitory Factor (MIF) in Human Colorectal Cancers. <i>Modern Pathology</i> , 2003, 16, 491-504.	5.5	88
56	The sugar code: letters and vocabulary, writers, editors and readers and biosignificance of functional glycan-lectin pairing. <i>Biochemical Journal</i> , 2019, 476, 2623-2655.	3.7	88
57	Tumor Lectinology: At the Intersection of Carbohydrate Chemistry, Biochemistry, Cell Biology, and Oncology. <i>Angewandte Chemie International Edition in English</i> , 1988, 27, 1267-1276.	4.4	87
58	Glycodendrimersomes from Sequence-Defined Janus Glycodendrimers Reveal High Activity and Sensor Capacity for the Agglutination by Natural Variants of Human Lectins. <i>Journal of the American Chemical Society</i> , 2015, 137, 13334-13344.	13.7	87
59	Onion-like glycodendrimersomes from sequence-defined Janus glycodendrimers and influence of architecture on reactivity to a lectin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1162-1167.	7.1	86
60	The how and why of protein-carbohydrate interaction: a primer to the theoretical concept and a guide to application in drug design. <i>Pharmaceutical Research</i> , 1998, 15, 23-30.	3.5	85
61	Galectin-1 Is a Novel Functional Receptor for Tissue Plasminogen Activator in Pancreatic Cancer. <i>Gastroenterology</i> , 2009, 136, 1379-1390.e5.	1.3	85
62	The sugar code: Why glycans are so important. <i>BioSystems</i> , 2018, 164, 102-111.	2.0	84
63	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. <i>Cancer</i> , 1999, 86, 2353-2363.	4.1	81
64	The glycobiology of the CD system: a dictionary for translating marker designations into glycan/lectin structure and function. <i>Trends in Biochemical Sciences</i> , 2015, 40, 360-376.	7.5	81
65	Glycans: bioactive signals decoded by lectins. <i>Biochemical Society Transactions</i> , 2008, 36, 1491-1496.	3.4	80
66	From structural to functional glycomics: core substitutions as molecular switches for shape and lectin affinity of N-glycans. <i>Biological Chemistry</i> , 2009, 390, 557-65.	2.5	80
67	Localization of endogenous lectins in normal human breast, benign breast lesions and mammary carcinomas. <i>Vigiliae Christianae</i> , 1986, 52, 107-115.	0.1	79
68	Prognostic Significance of Endogenous Adhesion/Growth-Regulatory Lectins in Lung Cancer. <i>Oncology</i> , 2005, 69, 167-174.	1.9	77
69	Galectin-1 Couples Glycobiology to Inflammation in Osteoarthritis through the Activation of an NF- κ B-Regulated Gene Network. <i>Journal of Immunology</i> , 2016, 196, 1910-1921.	0.8	77
70	Unraveling functional significance of natural variations of a human galectin by glycodendrimersomes with programmable glycan surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5585-5590.	7.1	75
71	Identification of annexin II, annexin VI and glyceraldehyde-3-phosphate dehydrogenase as calyculin-binding proteins in bovine heart. <i>International Journal of Biochemistry & Cell Biology</i> , 1993, 25, 1019-1027.	0.5	74
72	New aspects of galectin functionality in nuclei of cultured bone marrow stromal and epidermal cells: biotinylated galectins as tool to detect specific binding sites. <i>Biology of the Cell</i> , 2003, 95, 535-545.	2.0	74

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73	Lectins: Getting Familiar with Translators of the Sugar Code. <i>Molecules</i> , 2015, 20, 1788-1823.	3.8	74
74	Galectin-3 binds <i>Neisseria meningitidis</i> and increases interaction with phagocytic cells. <i>Cellular Microbiology</i> , 2012, 14, 1657-1675.	2.1	73
75	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. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2011, 1810, 150-161.	2.4	72
76	Upregulation of IL6, IL8 and CXCL1 production in dermal fibroblasts by normal/malignant epithelial cells in vitro: Immunohistochemical and transcriptomic analyses. <i>Biology of the Cell</i> , 2012, 104, 738-751.	2.0	71
77	Breaking Pseudo-Symmetry in Multiantennary Complex Glycans Using Lanthanide-Binding Tags and NMR Pseudo-Contact Shifts. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13789-13793.	13.8	71
78	Exploring functional pairing between surface glycoconjugates and human galectins using programmable glycodendrimersomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2509-E2518.	7.1	71
79	The 2.15 Å... crystal structure of CG-16, the developmentally regulated homodimeric chicken galectin. <i>Journal of Molecular Biology</i> , 1999, 294, 537-549.	4.2	70
80	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. <i>Biophysical Journal</i> , 2003, 85, 511-524.	0.5	69
81	Bioactive cell-like hybrids coassembled from (glyco)dendrimersomes with bacterial membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1134-41.	7.1	69
82	Different Architecture of the Combining Site of the Two Chicken Galectins Revealed by Chemical Mapping Studies with Synthetic Ligand Derivatives. <i>Journal of Biological Chemistry</i> , 1996, 271, 12744-12748.	3.4	68
83	Combining carbohydrate substitutions at bioinspired positions with multivalent presentation towards optimising lectin inhibitors: case study with calixarenes. <i>Chemical Communications</i> , 2011, 47, 6126.	4.1	68
84	Galectin-3 as an emerging prognostic indicator in advanced head and neck carcinoma. <i>European Journal of Cancer</i> , 2004, 40, 2324-2330.	2.8	67
85	Galectin 7 (p53-Induced Gene 1): A New Prognostic Predictor of Recurrence and Survival in Stage IV Hypopharyngeal Cancer. <i>Annals of Surgical Oncology</i> , 2006, 13, 999-1009.	1.5	67
86	How adhesion/growth-regulatory galectins 1 and 3 attain cell specificity: Case study defining their target on neuroblastoma cells (SK-N-SH) and marked affinity regulation by affecting microdomain organization of the membrane. <i>IUBMB Life</i> , 2010, 62, 624-628.	3.4	66
87	Intra- and intermolecular interactions of human galectin-3: assessment by full-assignment-based NMR. <i>Glycobiology</i> , 2016, 26, 888-903.	2.5	66
88	Carbohydrate recognition systems in autoimmunity. <i>Autoimmunity</i> , 2006, 39, 691-704.	2.6	64
89	Photoderivatized Polymer Thin Films at Quartz Crystal Microbalance Surfaces: Sensors for Carbohydrate-Protein Interactions. <i>Analytical Chemistry</i> , 2007, 79, 6897-6902.	6.5	63
90	Context-dependent multifunctionality of galectin-1: a challenge for defining the lectin as therapeutic target. <i>Expert Opinion on Therapeutic Targets</i> , 2013, 17, 379-392.	3.4	63

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91	Chemokines and galectins form heterodimers to modulate inflammation. <i>EMBO Reports</i> , 2020, 21, e47852.	4.5	63
92	Neuronal Galectin-4 is required for axon growth and for the organization of axonal membrane L1 delivery and clustering. <i>Journal of Neurochemistry</i> , 2013, 125, 49-62.	3.9	62
93	Activity-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. <i>Glycobiology</i> , 2007, 17, 165-184.	2.5	60
94	Discovery of galectin ligands in fully randomized combinatorial one-bead-one-compound (glyco)peptide libraries. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2007, 17, 793-798.	2.2	60
95	Fluorinated Carbohydrates as Lectin Ligands: Versatile Sensors in ¹⁹ F-Detected Saturation Transfer Difference NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2009, 15, 5666-5668.	3.3	60
96	Ganglioside GM1 Deficiency in Effector T Cells From NOD Mice Induces Resistance to Regulatory T-Cell Suppression. <i>Diabetes</i> , 2011, 60, 2341-2349.	0.6	60
97	The magic of the sugar code. <i>Trends in Biochemical Sciences</i> , 2015, 40, 341.	7.5	60
98	Involvement of Laser Photo-CIDNP (Chemically Induced Dynamic Nuclear Polarization)-Reactive Amino Acid Side Chains in Ligand Binding by Galactoside-Specific Lectins in Solution. <i>FEBS Journal</i> , 1997, 249, 27-38.	0.2	59
99	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. <i>J. Biol. Chem.</i> , 2000, 275, 218-236.		59
100	Human Galectins Induce Conversion of Dermal Fibroblasts into Myofibroblasts and Production of Extracellular Matrix: Potential Application in Tissue Engineering and Wound Repair. <i>Cells Tissues Organs</i> , 2011, 194, 469-480.	2.3	58
101	Multivalent Carbohydrate-Lectin Interactions: How Synthetic Chemistry Enables Insights into Nanometric Recognition. <i>Molecules</i> , 2016, 21, 629.	3.8	58
102	A regulatory network of two galectins mediates the earliest steps of avian limb skeletal morphogenesis. <i>BMC Developmental Biology</i> , 2011, 11, 6.	2.1	57
103	Design-functionality relationships for adhesion/growth-regulatory galectins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2837-2842.	7.1	57
104	Changes in Galectin-7 and Cytokeratin-19 Expression during the Progression of Malignancy in Thyroid Tumors: Diagnostic and Biological Implications. <i>Modern Pathology</i> , 2002, 15, 1294-1301.	5.5	56
105	Human osteoarthritic knee cartilage: fingerprinting of adhesion/growth-regulatory galectins in vitro and in situ indicates differential upregulation in severe degeneration. <i>Histochemistry and Cell Biology</i> , 2014, 142, 373-388.	1.7	56
106	Fine specificity of domain-I of recombinant tandem-repeat-type galectin-4 from rat gastrointestinal tract (G4-N). <i>Biochemical Journal</i> , 2002, 367, 653-664.	3.7	55
107	Galectin-1 knocking down in human U87 glioblastoma cells alters their gene expression pattern. <i>Biochemical and Biophysical Research Communications</i> , 2005, 335, 27-35.	2.1	55
108	Hevein Domains: An Attractive Model to Study Carbohydrate-Protein Interactions at Atomic Resolution. <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 2006, 60, 303-354.	0.9	55

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109	Synthesis of Bivalent Lactosides Based on Terephthalamide, α -D-Glucopyranosyl- β -D-Galactopyranoside, and Glycophane Scaffolds and Assessment of Their Inhibitory Capacity on Medically Relevant Lectins. <i>Journal of Organic Chemistry</i> , 2009, 74, 9010-9026.	3.2	55
110	Beyond glycoproteins as galectin counterreceptors: tumor effector T cell growth control via ganglioside GM1. <i>Annals of the New York Academy of Sciences</i> , 2012, 1253, 206-221.	3.8	53
111	NMR-Based, Molecular Dynamics- and Random Walk Molecular Mechanics-Supported Study of Conformational Aspects of a Carbohydrate Ligand (Gal ² 1-2Gal ² 1-R) for an Animal Galectin in the Free and in the Bound State. <i>Biochemical and Biophysical Research Communications</i> , 1996, 219, 205-212.	2.1	52
112	Synthesis and Conformational Analysis of (1 \rightarrow 6)- β -D-Galactosylphenylmethane and (1 \rightarrow 6)- β -D-Fluoromethane Analogues: Interactions with the Plant Lectin Viscumin. <i>Chemistry - A European Journal</i> , 2009, 15, 2861-2873.	3.3	52
113	Lanthanide-Chelating Carbohydrate Conjugates Are Useful Tools To Characterize Carbohydrate Conformation in Solution and Sensitive Sensors to Detect Carbohydrate-Protein Interactions. <i>Journal of the American Chemical Society</i> , 2014, 136, 8011-8017.	13.7	51
114	Non-carbohydrate binding partners/domains of animal lectins. <i>International Journal of Biochemistry & Cell Biology</i> , 1994, 26, 469-477.	0.5	50
115	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 immunoglobulin G fraction with selectivity for O-acetylated sialic acids. <i>Glycobiology</i> , 1996, 6, 561-571.	2.5	49
116	Role of aromatic amino acids in carbohydrate binding of plant lectins: Laser photochemically induced dynamic nuclear polarization study of hevein domain-containing lectins. <i>Proteins: Structure, Function and Bioinformatics</i> , 1997, 28, 268-284.	2.6	49
117	A New Combined Computational and NMR-Spectroscopical Strategy for the Identification of Additional Conformational Constraints of the Bound Ligand in an Aprotic Solvent. <i>ChemBioChem</i> , 2000, 1, 181-195.	2.6	49
118	Tumor-associated antigen 90K/Mac-2-binding protein: Possible role in colon cancer. <i>Journal of Cellular Biochemistry</i> , 2006, 98, 1351-1366.	2.6	49
119	Inhibitory potential of chemical substitutions at bioinspired sites of 1 \rightarrow 2-d-galactopyranose on neoglycoprotein/cell surface binding of two classes of medically relevant lectins. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 3280-3287.	3.0	49
120	Unique sequence and expression profiles of rat galectins-5 and -9 as a result of species-specific gene divergence. <i>International Journal of Biochemistry and Cell Biology</i> , 2006, 38, 1741-1758.	2.8	47
121	Interaction profile of galectin-5 with free saccharides and mammalian glycoproteins: probing its fine specificity and the effect of naturally clustered ligand presentation. <i>Glycobiology</i> , 2006, 16, 524-537.	2.5	47
122	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. <i>International Journal of Biochemistry and Cell Biology</i> , 2010, 42, 1019-1029.	2.8	47
123	Symmetric dithiodigalactoside: strategic combination of binding studies and detection of selectivity between a plant toxin and human lectins. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 5445.	2.8	47
124	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. <i>Molecules</i> , 2013, 18, 4026-4053.	3.8	47
125	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. <i>Biochimie</i> , 2014, 104, 90-99.	2.6	47
126	Galectin-3 Induces a Pro-degradative/inflammatory Gene Signature in Human Chondrocytes, Teaming Up with Galectin-1 in Osteoarthritis Pathogenesis. <i>Scientific Reports</i> , 2016, 6, 39112.	3.3	47

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127	The growing galectin network in colon cancer and clinical relevance of cytoplasmic galectin-3 reactivity. <i>Anticancer Research</i> , 2013, 33, 3053-9.	1.1	47
128	NMR investigations of protein-carbohydrate interactions. <i>FEBS Journal</i> , 2000, 267, 3965-3978.	0.2	46
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