Richard D Cummings

List of Publications by Year
in descending order

227	15,352	19657 61	21540 114
papers	citations	h-index	g-index

240	240	240	14481
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identification of Glycan-Specific Variable Lymphocyte Receptors Using Yeast Surface Display and Glycan Microarrays. Methods in Molecular Biology, 2022, 2421, 73-89.	0.9	4
2	Mammalian brain glycoproteins exhibit diminished glycan complexity compared to other tissues. Nature Communications, 2022, 13, 275.	12.8	47
3	A Useful Guide to Lectin Binding: Machine-Learning Directed Annotation of 57 Unique Lectin Specificities. ACS Chemical Biology, 2022, 17, 2993-3012.	3.4	103
4	Galectin-9 recognizes and exhibits antimicrobial activity toward microbes expressing blood groupâ€“like antigens. Journal of Biological Chemistry, 2022, 298, 101704.	3.4	11
5	Posttranslational Modifications in Thyroid Cancer: Implications for Pathogenesis, Diagnosis, Classification, and Treatment. Cancers, 2022, 14, 1610.	3.7	7
6	The schizophrenia-associated variant in SLC39A8 alters protein glycosylation in the mouse brain. Molecular Psychiatry, 2022, 27, 1405-1415.	7.9	11
7	Galectins: An Ancient Family of Carbohydrate Binding Proteins with Modern Functions. Methods in Molecular Biology, 2022, 2442, 1-40.	0.9	21
8	Investigation of in Frozen Tissue and Mammalian Cell Culture Using Confocal Miccroscopy. Methods in Molecular Biology, 2022, 2442, 289-306.	0.9	0
9	Evaluation of the Bactericidal Activity of Galectins. Methods in Molecular Biology, 2022, 2442, 517-531.	0.9	4
10	Detection of Reactive Oxygen Species in Human Neutrophils Under Various Conditions of Exposure to Galectin. Methods in Molecular Biology, 2022, 2442, 549-564.	0.9	0
11	Examination of Whole-Cell Galectin Binding by Solid Phase and Flow Cytometric Analysis. Methods in Molecular Biology, 2022, 2442, 187-203.	0.9	2
12	Detection of Phosphatidylserine Exposure on Leukocytes Following Treatment with Human Galectins. Methods in Molecular Biology, 2022, 2442, 533-548.	0.9	0
13	Alkylation of Galectin-1 with Iodoacetamide and Mass Spectrometric Mapping of the Sites of Incorporation. Methods in Molecular Biology, 2022, 2442, 75-87.	0.9	2
14	Examining Galectin Binding Specificity Using Glycan Microarrays. Methods in Molecular Biology, 2022, 2442, 151-168.	0.9	5
15	Molecular Imaging for In Vivo Tracking and Detection of Galectin Binding Partners. Methods in Molecular Biology, 2022, 2442, 339-352.	0.9	0
16	Sialylation of CD11b/CD18 regulates Neutrophil Transepithelial Migration and Neutrophil Inflammatory function in the Intestine. FASEB Journal, 2022, 36, .	0.5	0
17	The mannose receptor ligands and the macrophage glycome. Current Opinion in Structural Biology, 2022, 75, 102394.	5.7	23
18	Mucin O-glycans are natural inhibitors of Candida albicans pathogenicity. Nature Chemical Biology, 2022, 18, 762-773.	8.0	22

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19	Different glycoforms of alpha-1-acid glycoprotein contribute to its functional alterations in platelets and neutrophils. Journal of Leukocyte Biology, 2021, 109, 915-930.	3.3	8
20	Mucin Glycans Signal through the Sensor Kinase RetS to Inhibit Virulence-Associated Traits in Pseudomonas aeruginosa. Current Biology, 2021, 31, 90-102.e7.	3.9	45
21	Lipids | Glycan-Dependent Cell Adhesion Processes. , 2021, , 654-662.		0
22	The SARS-CoV-2 receptor-binding domain preferentially recognizes blood group A. Blood Advances, 2021, 5, 1305-1309.	5.2	83
23	Resident and elicited murine macrophages differ in expression of their glycomes and glycan-binding proteins. Cell Chemical Biology, 2021, 28, 567-582.e4.	5.2	8
24	A PSGL-1 glycomimetic reduces thrombus burden without affecting hemostasis. Blood, 2021, 138, 1182-1193.	1.4	25
25	Differential recognition of oligomannose isomers by glycan-binding proteins involved in innate and adaptive immunity. Science Advances, 2021, 7, .	10.3	18
26	Cellular Oâ€Glycome Reporter/Amplification (CORA): Analytical and Preparative Tools to Study Mucinâ€Type Oâ€Glycans of Living Cells. Current Protocols, 2021, 1, e142.	2.9	1
27	Tumor cells express pauci- and oligomannosidic N-glycans in glycoproteins recognized by the mannose receptor (CD206). Cellular and Molecular Life Sciences, 2021, 78, 5569-5585.	5.4	13
28	Novel lamprey antibody recognizes terminal sulfated galactose epitopes on mammalian glycoproteins. Communications Biology, 2021, 4, 674.	4.4	13
29	Endogenous galectin-3 is required for skeletal muscle repair. Glycobiology, 2021, 31, 1295-1307.	2.5	6
30	Major differences in glycosylation and fucosyltransferase expression in low-grade versus high-grade bladder cancer cell lines. Glycobiology, 2021, 31, 1444-1463.	2.5	8
31	SARS-CoV-2 and other coronaviruses bind to phosphorylated glycans from the human lung. Virology, 2021, 562, 142-148.	2.4	12
32	Tools and Methods to Study the Human Glycome. , 2021, , 416-431.		0
33	Targeting the Laminated Layer of Echinococcus multilocularis as a Potential Therapeutic Strategy. Pharmacology, 2021, 106, 1-2.	2.2	2
34	Cosmc deficiency causes spontaneous autoimmunity by breaking B cell tolerance. Science Advances, 2021, 7, eabg9118.	10.3	5
35	Full-Length Galectin-3 Is Required for High Affinity Microbial Interactions and Antimicrobial Activity. Frontiers in Microbiology, 2021, 12, 731026.	3.5	15
36	Sialoglycans on lymphatic endothelial cells augment interactions with Siglecâ€1 (CD169) of lymph node macrophages. FASEB Journal, 2021, 35, e22017.	0.5	6

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37	GlyGen: Computational and Informatics Resources for Glycoscience. Glycobiology, 2020, 30, 72-73.	2.5	123
38	Cosmc-dependent mucin-type O-linked glycosylation is essential for podocyte function. American Journal of Physiology - Renal Physiology, 2020, 318, F518-F530.	2.7	17
39	Regulation of neutrophil function by selective targeting of glycan epitopes expressed on the integrin CD11b/CD18. FASEB Journal, 2020, 34, 2326-2343.	0.5	20
40	GlyMDB: Glycan Microarray Database and analysis toolset. Bioinformatics, 2020, 36, 2438-2442.	4.1	14
41	Tools for generating and analyzing glycan microarray data. Beilstein Journal of Organic Chemistry, 2020, 16, 2260-2271.	2.2	10
42	Oâ€glycans on death receptors in cells modulate their sensitivity to TRAILâ€induced apoptosis through affecting on their stability and oligomerization. FASEB Journal, 2020, 34, 11786-11801.	0.5	24
43	Intestinal epithelial glycosylation in homeostasis and gut microbiota interactions in IBD. Nature Reviews Gastroenterology and Hepatology, 2020, 17, 597-617.	17.8	138
44	Molecular epidemiology and glycomics of swine influenza viruses circulating in commercial swine farms in the southeastern and midwest United States. Veterinary Microbiology, 2020, 251, 108914.	1.9	6
45	Human IgA binds a diverse array of commensal bacteria. Journal of Experimental Medicine, 2020, 217, .	8.5	65
46	The schizophrenia risk locus in SLC39A8 alters brain metal transport and plasma glycosylation. Scientific Reports, 2020, 10, 13162.	3.3	43
47	Unique repertoire of anti-carbohydrate antibodies in individual human serum. Scientific Reports, 2020, 10, 15436.	3.3	18
48	N â€glycome analysis detects dysglycosylation missed by conventional methods in SLC39A8 deficiency. Journal of Inherited Metabolic Disease, 2020, 43, 1370-1381.	3.6	8
49	Cosmc controls B cell homing. Nature Communications, 2020, 11, 3990.	12.8	19
50	L-Fucose treatment of FUT8-CDG. Molecular Genetics and Metabolism Reports, 2020, 25, 100680.	1.1	11
51	Glycobiology and schizophrenia: a biological hypothesis emerging from genomic research. Molecular Psychiatry, 2020, 25, 3129-3139.	7.9	46
52	Aberrant glycosylation in schizophrenia: a review of 25 years of post-mortem brain studies. Molecular Psychiatry, 2020, 25, 3198-3207.	7.9	44
53	Enhanced Pro-apoptotic Effects of Fe(II)-Modified IVIG on Human Neutrophils. Frontiers in Immunology, 2020, 11, 973.	4.8	4
54	GlycoGlyph: a glycan visualizing, drawing and naming application. Bioinformatics, 2020, 36, 3613-3614.	4.1	36

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55	Amplification and Preparation of Cellular O-Glycomes for Functional Glycomics. Analytical Chemistry, 2020, 92, 10390-10401.	6.5	12
56	Parallel Glyco-SPOT Synthesis of Glycopeptide Libraries. Cell Chemical Biology, 2020, 27, 1207-1219.e9.	5.2	9
57	Development of smart anti-glycan reagents using immunized lampreys. Communications Biology, 2020, 3, 91.	4.4	27
58	Antibodies from Lampreys as Smart Anti-Glycan Reagents (SAGRs): Perspectives on Their Specificity, Structure, and Glyco-genomics. Biochemistry, 2020, 59, 3111-3122.	2.5	16
59	Better survival is observed in cervical cancer patients positive for specific anti-glycan antibodies and receiving brachytherapy. Gynecologic Oncology, 2020, 157, 181-187.	1.4	7
60	Emerging patterns of tyrosine sulfation and O-glycosylation cross-talk and co-localization. Current Opinion in Structural Biology, 2020, 62, 102-111.	5.7	26
61	The Human Lung Glycome Reveals Novel Glycan Ligands for Influenza A Virus. Scientific Reports, 2020, 10, 5320.	3.3	51
62	Characterizing Emerging Canine H3 Influenza Viruses. PLoS Pathogens, 2020, 16, e1008409.	4.7	29
63	O-glycan recognition and function in mice and human cancers. Biochemical Journal, 2020, 477, 1541-1564.	3.7	47
64	Targeting epithelium-expressed sialyl Lewis glycans improves colonic mucosal wound healing and protects against colitis. JCI Insight, 2020, 5, .	5.0	15
65	Regulation of Neutrophil Function by Selective Targeting of Glycan Epitopes Expressed on the Integrin CD11b/CD18. FASEB Journal, 2020, 34, 1-1.	0.5	0
66	Characterizing Emerging Canine H3 Influenza Viruses. , 2020, 16, e1008409.		0
67	Characterizing Emerging Canine H3 Influenza Viruses. , 2020, 16, e1008409.		0
68	Characterizing Emerging Canine H3 Influenza Viruses. , 2020, 16, e1008409.		0
69	Characterizing Emerging Canine H3 Influenza Viruses. , 2020, 16, e1008409.		0
70	Characterizing Emerging Canine H3 Influenza Viruses. , 2020, 16, e1008409.		0
71	Characterizing Emerging Canine H3 Influenza Viruses. , 2020, 16, e1008409.		0
72	Cosmc is required for T cell persistence in the periphery. Glycobiology, 2019, 29, 776-788.	2.5	6

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73	â€œStuck on sugars â€“ how carbohydrates regulate cell adhesion, recognition, and signalingâ€. Glycoconjugate Journal, 2019, 36, 241-257.	2.7	77
74	Synthesis and Characterization of Versatile O-Glycan Precursors for Cellular O-Glycomics. ACS Synthetic Biology, 2019, 8, 2507-2513.	3.8	7
75	Galectin-1 modulation of neutrophil reactive oxygen species production depends on the cell activation state. Molecular Immunology, 2019, 116, 80-89.	2.2	16
76	Novel Reversible Fluorescent Glycan Linker for Functional Glycomics. Bioconjugate Chemistry, 2019, 30, 2897-2908.	3.6	18
77	Mucin glycans attenuate the virulence of Pseudomonas aeruginosa in infection. Nature Microbiology, 2019, 4, 2146-2154.	13.3	137
78	Glycosylation of Zika Virus is Important in Hostâ€“Virus Interaction and Pathogenic Potential. International Journal of Molecular Sciences, 2019, 20, 5206.	4.1	37
79	History and future of shotgun glycomics. Biochemical Society Transactions, 2019, 47, 1-11.	3.4	33
80	The Sweet-Side of Leukocytes: Galectins as Master Regulators of Neutrophil Function. Frontiers in Immunology, 2019, 10, 1762.	4.8	44
81	Natural and Synthetic Sialylated Glycan Microarrays and Their Applications. Frontiers in Molecular Biosciences, 2019, 6, 88.	3.5	23
82	The architecture of the IgG anti-carbohydrate repertoire in primary antibody deficiencies. Blood, 2019, 134, 1941-1950.	1.4	19
83	Generation of fully functional hepatocyte-like organoids from human induced pluripotent stem cells mixed with Endothelial Cells. Scientific Reports, 2019, 9, 8920.	3.3	113
84	Updates to the Symbol Nomenclature for Glycans guidelines. Glycobiology, 2019, 29, 620-624.	2.5	292
85	IFN-Î³-independent immune markers of Mycobacterium tuberculosis exposure. Nature Medicine, 2019, 25, 977-987.	30.7	186
86	Influenza binds phosphorylated glycans from human lung. Science Advances, 2019, 5, eaav2554.	10.3	64
87	GLAD: GLycan Array Dashboard, a visual analytics tool for glycan microarrays. Bioinformatics, 2019, 35, 3536-3537.	4.1	36
88	Unique Binding Specificities of Proteins toward Isomeric Asparagine-Linked Glycans. Cell Chemical Biology, 2019, 26, 535-547.e4.	5.2	63
89	Antigenic Pressure on H3N2 Influenza Virus Drift Strains Imposes Constraints on Binding to Sialylated Receptors but Not Phosphorylated Glycans. Journal of Virology, 2019, 93, .	3.4	34
90	Identification of Tn Antigen O-GalNAc-expressing glycoproteins in human carcinomas using novel anti-Tn recombinant antibodies. Glycobiology, 2019, 30, 282-300.	2.5	18

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91	Glycan Microarrays as Chemical Tools for Identifying Glycan Recognition by Immune Proteins. Frontiers in Chemistry, 2019, 7, 833.	3.6	59
92	Targeting Epithelial Expressed Sialyl Lewis A Improves Intestinal Mucosal Wound Healing and Protects Against Colitis. FASEB Journal, 2019, 33, 34.4.	0.5	0
93	Evidence of Alternative Modes of B Cell Activation Involving Acquired Fab Regions of Nâ€Glycosylation in Antibodyâ€Secreting Cells Infiltrating the Labial Salivary Glands of Patients With SjÃ¶grenâ€™s Syndrome. Arthritis and Rheumatology, 2018, 70, 1102-1113.	5.6	5
94	Convergent Synthesis of Sialyl LewisX-O-Core-1 Threonine. Journal of Organic Chemistry, 2018, 83, 4963-4972.	3.2	8
95	Isotopic labeling with cellular O-glycome reporter/amplification (ICORA) for comparative O-glycomics of cultured cells. Glycobiology, 2018, 28, 214-222.	2.5	22
96	Multiplex glycan bead array for high throughput and high content analyses of glycan binding proteins. Nature Communications, 2018, 9, 258.	12.8	66
97	A comprehensive Caenorhabditis elegans N-glycan shotgun array. Glycobiology, 2018, 28, 223-232.	2.5	15
98	Human B Cell Differentiation Is Characterized by Progressive Remodeling of O-Linked Glycans. Frontiers in Immunology, 2018, 9, 2857.	4.8	37
99	Galectin-3 aggravates experimental polymicrobial sepsis by impairing neutrophil recruitment to the infectious focus. Journal of Infection, 2018, 77, 391-397.	3.3	12
100	Differential expression of Cosmc, T-synthase and mucins in Tn-positive colorectal cancers. BMC Cancer, 2018, 18, 827.	2.6	42
101	Expression of Lewis-a glycans on polymorphonuclear leukocytes augments function by increasing transmigration. Journal of Leukocyte Biology, 2017, 102, 753-762.	3.3	12
102	Synthesis of Lewis X - O -Core-1 threonine: A building block for O -linked Lewis X glycopeptides. Carbohydrate Research, 2017, 452, 47-53.	2.3	5
103	Structural Insights into VLR Fine Specificity for Blood Group Carbohydrates. Structure, 2017, 25, 1667-1678.e4.	3.3	27
104	Various N-glycoforms differentially upregulate E-NTPDase activity of the NTPDase3/CD39L3 ecto-enzymatic domain. Purinergic Signalling, 2017, 13, 601-609.	2.2	7
105	IVIG regulates the survival of human but not mouse neutrophils. Scientific Reports, 2017, 7, 1296.	3.3	38
106	GlyTouCan: an accessible glycan structure repository. Glycobiology, 2017, 27, 915-919.	2.5	123
107	The Haystack Is Full of Needles: Technology Rescues Sugars!. Molecular Cell, 2017, 68, 827-829.	9.7	1
108	Proteomic and functional analysis identifies galectin-1 as a novel regulatory component of the cytotoxic granule machinery. Cell Death and Disease, 2017, 8, e3176-e3176.	6.3	19

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109	A library of chemically defined human N-glycans synthesized from microbial oligosaccharide precursors. Scientific Reports, 2017, 7, 15907.	3.3	22
110	The whipworm (Trichuris suis) secretes prostaglandin E2 to suppress proinflammatory properties in human dendritic cells. FASEB Journal, 2017, 31, 719-731.	0.5	52
111	The Mannose Receptor in Regulation of Helminth-Mediated Host Immunity. Frontiers in Immunology, 2017, 8, 1677.	4.8	36
112	Biochemical characterization of functional domains of the chaperone Cosmc. PLoS ONE, 2017, 12, e0180242.	2.5	14
113	Cosmc is an X-linked inflammatory bowel disease risk gene that spatially regulates gut microbiota and contributes to sex-specific risk. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14787-14792.	7.1	77
114	P-187â€ƒTargeting of PMN Lewis X Blocks PMN Transepithelial Migration and Increases Phagocytosis and Degranulation. Inflammatory Bowel Diseases, 2016, 22, S66.	1.9	0
115	Treatment with Trichuris suis soluble products during monocyteâ€toâ€macrophage differentiation reduces inflammatory responses through epigenetic remodeling. FASEB Journal, 2016, 30, 2826-2836.	0.5	25
116	Oxidative release of natural glycans for functional glycomics. Nature Methods, 2016, 13, 528-534.	19.0	153
117	Human DC-SIGN binds specific human milk glycans. Biochemical Journal, 2016, 473, 1343-1353.	3.7	66
118	A Novel N-Tetrasaccharide in Patients with Congenital Disorders of Glycosylation, Including Asparagine-Linked Glycosylation Protein 1, Phosphomannomutase 2, and Mannose Phosphate Isomerase Deficiencies. Clinical Chemistry, 2016, 62, 208-217.	3.2	43
119	Galectins are human milk glycan receptors. Glycobiology, 2016, 26, 655-669.	2.5	44
120	Targeting of Neutrophil Lewis X Blocks Transepithelial Migration and Increases Phagocytosis and Degranulation. American Journal of Pathology, 2016, 186, 297-311.	3.8	25
121	Identification of Antigenic Glycans from Schistosoma mansoni by Using a Shotgun Egg Glycan Microarray. Infection and Immunity, 2016, 84, 1371-1386.	2.2	27
122	Computational approaches to define a human milk metaglycome. Bioinformatics, 2016, 32, 1471-1478.	4.1	15
123	Single-chain antibody-fragment M6P-1 possesses a mannose 6-phosphate monosaccharide-specific binding pocket that distinguishesN-glycan phosphorylation in a branch-specific manner. Glycobiology, 2016, 26, 181-192.	2.5	8
124	Cellular O-Glycome Reporter/Amplification to explore O-glycans of living cells. Nature Methods, 2016, 13, 81-86.	19.0	81
125	GlyTouCan 1.0 â€“ The international glycan structure repository. Nucleic Acids Research, 2016, 44, D1237-D1242.	14.5	83
126	Schistosoma mansoniÎ±1,3-fucosyltransferase-F generates the Lewis X antigen. Glycobiology, 2015, 26, cwv103.	2.5	7

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127	Identification of a fourth mannose 6-phosphate binding site in the cation-independent mannose 6-phosphate receptor. Glycobiology, 2015, 25, 591-606.	2.5	29
128	Simple Sugars to Complex Diseaseâ€"Mucin-Type O-Glycans in Cancer. Advances in Cancer Research, 2015, 126, 53-135.	5.0	185
129	Intact Reducing Glycan Promotes the Specific Immune Response to Lacto-N-neotetraose-BSA Neoglycoconjugates. Bioconjugate Chemistry, 2015, 26, 559-571.	3.6	13
130	Protein Glycosylation in Cancer. Annual Review of Pathology: Mechanisms of Disease, 2015, 10, 473-510.	22.4	624
131	Recognition of microbial glycans by human intelectin-1. Nature Structural and Molecular Biology, 2015, 22, 603-610.	8.2	133
132	Glycan microarrays of fluorescently-tagged natural glycans. Glycoconjugate Journal, 2015, 32, 465-473.	2.7	26
133	Glycopeptide analogues of PSGL-1 inhibit P-selectin in vitro and in vivo. Nature Communications, 2015, 6, 6387.	12.8	69
134	Synthetic 1,2,3-triazole-linked glycoconjugates bind with high affinity to human galectin-3. Bioorganic and Medicinal Chemistry, 2015, 23, 3414-3425.	3.0	26
135	The human IgG anti-carbohydrate repertoire exhibits a universal architecture and contains specificity for microbial attachment sites. Science Translational Medicine, 2015, 7, 269ra1.	12.4	87
136	Symbol Nomenclature for Graphical Representations of Glycans. Glycobiology, 2015, 25, 1323-1324.	2.5	818
137	Trichuris suis induces human non-classical patrolling monocytes via the mannose receptor and PKC: implications for multiple sclerosis. Acta Neuropathologica Communications, 2015, 3, 45.	5.2	20
138	Structural basis of glycan specificity in neonate-specific bovine-human reassortant rotavirus. Nature Communications, 2015, 6, 8346.	12.8	50
139	Promoters of Human Cosmc and T-synthase Genes Are Similar in Structure, Yet Different in Epigenetic Regulation. Journal of Biological Chemistry, 2015, 290, 19018-19033.	3.4	18
140	Schistosoma mansoni Soluble Egg Antigens Induce Expression of the Negative Regulators SOCS1 and SHP1 in Human Dendritic Cells via Interaction with the Mannose Receptor. PLoS ONE, 2015, 10, e0124089.	2.5	34
141	Glycan array analysis of influenza H1N1 binding and release. Cancer Biomarkers, 2014, 14, 43-53.	1.7	31
142	The Cosmc connection to the Tn antigen in cancer. Cancer Biomarkers, 2014, 14, 63-81.	1.7	115
143	Investigating virusâ€"glycan interactions using glycan microarrays. Current Opinion in Virology, 2014, 7, 79-87.	5.4	37
144	Human Milk Contains Novel Glycans That Are Potential Decoy Receptors for Neonatal Rotaviruses. Molecular and Cellular Proteomics, 2014, 13, 2944-2960.	3.8	113

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145	Identification of a Novel Protein Binding Motif within the T-synthase for the Molecular Chaperone Cosmc. Journal of Biological Chemistry, 2014, 289, 11630-11641.	3.4	21
146	Identification of Distinct Glycoforms of IgA1 in Plasma from Patients with Immunoglobulin A (IgA) Nephropathy and Healthy Individuals. Molecular and Cellular Proteomics, 2014, 13, 3097-3113.	3.8	28
147	Structural Characterization by Multistage Mass Spectrometry (MSn) of Human Milk Glycans Recognized by Human Rotaviruses. Molecular and Cellular Proteomics, 2014, 13, 2961-2974.	3.8	58
148	Chemistry of natural glycan microarrays. Current Opinion in Chemical Biology, 2014, 18, 70-77.	6.1	59
149	Using glycan microarrays to understand immunity. Current Opinion in Chemical Biology, 2014, 18, 55-61.	6.1	58
150	Immunization with recombinantly expressed glycan antigens from Schistosoma mansoni induces glycan-specific antibodies against the parasite. Glycobiology, 2014, 24, 619-637.	2.5	24
151	Cross-platform comparison of glycan microarray formats. Glycobiology, 2014, 24, 507-517.	2.5	114
152	Microbial glycan microarrays define key features of host-microbial interactions. Nature Chemical Biology, 2014, 10, 470-476.	8.0	191
153	GlycoPattern: a web platform for glycan array mining. Bioinformatics, 2014, 30, 3417-3418.	4.1	43
154	T Cells Are Smadâ€™ly in Love with Galectin-9. Immunity, 2014, 41, 171-173.	14.3	8
155	If it is methylated it must be Tectonic. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9669-9670.	7.1	1
156	Deletion of Atbf1/Zfhx3 In Mouse Prostate Causes Neoplastic Lesions, Likely by Attenuation of Membrane and Secretory Proteins and Multiple Signaling Pathways. Neoplasia, 2014, 16, 377-389.	5.3	31
157	Galatrox is a C-type lectin in Bothrops atrox snake venom that selectively binds LacNAc-terminated glycans and can induce acute inflammation. Glycobiology, 2014, 24, 1010-1021.	2.5	20
158	Molecular factors in dendritic cell responses to adsorbed glycoconjugates. Biomaterials, 2014, 35, 5862-5874.	11.4	12
159	The Challenge and Promise of Glycomics. Chemistry and Biology, 2014, 21, 1-15.	6.0	334
160	Shotgun glycomics of pig lung identifies natural endogenous receptors for influenza viruses. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2241-50.	7.1	97
161	Differential expression of anti-glycan antibodies in schistosome-infected humans, rhesus monkeys and mice. Glycobiology, 2014, 24, 602-618.	2.5	32
162	Profiling of Glycan Receptors for Minute Virus of Mice in Permissive Cell Lines Towards Understanding the Mechanism of Cell Recognition. PLoS ONE, 2014, 9, e86909.	2.5	14

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163	Galectin-1 Exerts Inhibitory Effects during DENV-1 Infection. PLoS ONE, 2014, 9, e112474.	2.5	39
164	<scp>T</scp>n and sialylâ€Tn antigens, aberrant <scp>O</scp>â€glycomics as human disease markers. Proteomics - Clinical Applications, 2013, 7, 618-631.	1.6	131
165	Serum N-glycan and O-glycan analysis by mass spectrometry for diagnosis of congenital disorders of glycosylation. Analytical Biochemistry, 2013, 442, 178-185.	2.4	61
166	Acceptor specificities and selective inhibition of recombinant human Gal- and GlcNAc-transferases that synthesize core structures 1, 2, 3 and 4 of O-glycans. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4274-4281.	2.4	14
167	Microarray analysis of the human antibody response to synthetic Cryptosporidium glycopeptides. International Journal for Parasitology, 2013, 43, 901-907.	3.1	22
168	A Fluorescence-Based Assay for Core 1 Î²3Galactosyltransferase (T-Synthase) Activity. Methods in Molecular Biology, 2013, 1022, 15-28.	0.9	9
169	Development and characterization of a specific IgG monoclonal antibody toward the Lewis x antigen using splenocytes of Schistosoma mansoni-infected mice. Glycobiology, 2013, 23, 877-892.	2.5	19
170	Application of Microarrays for Deciphering the Structure and Function of the Human Glycome. Molecular and Cellular Proteomics, 2013, 12, 902-912.	3.8	63
171	Human H3N2 Influenza Viruses Isolated from 1968 To 2012 Show Varying Preference for Receptor Substructures with No Apparent Consequences for Disease or Spread. PLoS ONE, 2013, 8, e66325.	2.5	101
172	Molecular Regulation of Protein Oâ€Glycosylation and Relevance to Disease and Development. FASEB Journal, 2013, 27, 211.1.	0.5	0
173	Automated Motif Discovery from Glycan Array Data. OMICS A Journal of Integrative Biology, 2012, 16, 497-512.	2.0	50
174	Tight Complex Formation between Cosmc Chaperone and Its Specific Client Non-native T-synthase Leads to Enzyme Activity and Client-driven Dissociation. Journal of Biological Chemistry, 2012, 287, 15317-15329.	3.4	32
175	Functional Glycomic Analysis of Human Milk Glycans Reveals the Presence of Virus Receptors and Embryonic Stem Cell Biomarkers. Journal of Biological Chemistry, 2012, 287, 44784-44799.	3.4	90
176	Cross-comparison of Protein Recognition of Sialic Acid Diversity on Two Novel Sialoglycan Microarrays. Journal of Biological Chemistry, 2012, 287, 22593-22608.	3.4	116
177	Epigenetic Silencing of the Chaperone Cosmc in Human Leukocytes Expressing Tn Antigen. Journal of Biological Chemistry, 2012, 287, 41523-41533.	3.4	60
178	Platelet biogenesis and functions require correct protein O-glycosylation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16143-16148.	7.1	82
179	Deciphering Structural Elements of Mucin Glycoprotein Recognition. ACS Chemical Biology, 2012, 7, 1031-1039.	3.4	53
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