

Naoyuki Taniguchi

List of Publications by Year in descending order

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158
papers

12,358
citations

20817

60
h-index

27406

106
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161
all docs

161
docs citations

161
times ranked

11024
citing authors

#	ARTICLE	IF	CITATIONS
1	Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015, 25, 1323-1324.	2.5	818
2	From The Cover: Dysregulation of TGF- β 1 receptor activation leads to abnormal lung development and emphysema-like phenotype in core fucose-deficient mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 15791-15796.	7.1	413
3	Comparison of the methods for profiling glycoprotein glycansâ€™HUPO Human Disease Glycomics/Proteome Initiative multi-institutional study. <i>Glycobiology</i> , 2007, 17, 411-422.	2.5	382
4	Functional roles of N-glycans in cell signaling and cell adhesion in cancer. <i>Cancer Science</i> , 2008, 99, 1304-1310.	3.9	351
5	Estrogen Induces the Akt-dependent Activation of Endothelial Nitric-oxide Synthase in Vascular Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 3459-3467.	3.4	340
6	Glycans and Cancer. <i>Advances in Cancer Research</i> , 2015, 126, 11-51.	5.0	327
7	Paranodal junction formation and spermatogenesis require sulfoglycolipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4227-4232.	7.1	307
8	Updates to the Symbol Nomenclature for Glycans guidelines. <i>Glycobiology</i> , 2019, 29, 620-624.	2.5	292
9	Core Fucosylation Regulates Epidermal Growth Factor Receptor-mediated Intracellular Signaling. <i>Journal of Biological Chemistry</i> , 2006, 281, 2572-2577.	3.4	281
10	Inactivation of Glutathione Peroxidase by Nitric Oxide. <i>Journal of Biological Chemistry</i> , 1995, 270, 21035-21039.	3.4	280
11	Ectodomain Shedding of Epidermal Growth Factor Receptor Ligands Is Required for Keratinocyte Migration in Cutaneous Wound Healing. <i>Journal of Cell Biology</i> , 2000, 151, 209-220.	5.2	279
12	Fucosylated haptoglobin is a novel marker for pancreatic cancer: A detailed analysis of the oligosaccharide structure and a possible mechanism for fucosylation. <i>International Journal of Cancer</i> , 2006, 118, 2803-2808.	5.1	271
13	Diphtheria Toxin Binds to the Epidermal Growth Factor (EGF)-like Domain of Human Heparin-binding EGF-like Growth Factor/Diphtheria Toxin Receptor and Inhibits Specifically Its Mitogenic Activity. <i>Journal of Biological Chemistry</i> , 1995, 270, 1015-1019.	3.4	267
14	Domain-specific mutations in TGFB1 result in Camurati-Engelmann disease. <i>Nature Genetics</i> , 2000, 26, 19-20.	21.4	239
15	Branched N-glycans regulate the biological functions of integrins and cadherins. <i>FEBS Journal</i> , 2008, 275, 1939-1948.	4.7	204
16	Core fucose and bisecting GlcNAc, the direct modifiers of the N-glycan core: their functions and target proteins. <i>Carbohydrate Research</i> , 2009, 344, 1387-1390.	2.3	203
17	Purification and cDNA Cloning of Porcine Brain GDP-L-Fuc:N-Acetyl- β -D-Glucosaminide 1 \rightarrow 6Fucosyltransferase. <i>Journal of Biological Chemistry</i> , 1996, 271, 27810-27817.	3.4	194
18	HB-EGF Is a Potent Inducer of Tumor Growth and Angiogenesis. <i>Cancer Research</i> , 2004, 64, 5283-5290.	0.9	192

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19	Oxidative Stress Caused by Inactivation of Glutathione Peroxidase and Adaptive Responses. <i>Biological Chemistry</i> , 2003, 384, 567-74.	2.5	170
20	Prometastatic Effect of N-Acetylglucosaminyltransferase V Is Due to Modification and Stabilization of Active Matriptase by Adding β 6 GlcNAc Branching. <i>Journal of Biological Chemistry</i> , 2002, 277, 16960-16967.	3.4	167
21	Introduction of Bisecting GlcNAc into Integrin α 5 β 1 Reduces Ligand Binding and Down-regulates Cell Adhesion and Cell Migration. <i>Journal of Biological Chemistry</i> , 2004, 279, 19747-19754.	3.4	162
22	Carbohydrate Binding Specificity of a Fucose-specific Lectin from <i>Aspergillus oryzae</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 15700-15708.	3.4	151
23	Purification and Characterization of UDP-N-Acetylglucosamine-6-D-Mannoside β -6-N-Acetylglucosaminyltransferase (N-Acetylglucosaminyltransferase V) from a Human Lung Cancer Cell Line 1. <i>Journal of Biochemistry</i> , 1993, 113, 614-619.	1.7	147
24	An aberrant sugar modification of BACE1 blocks its lysosomal targeting in Alzheimer's disease. <i>EMBO Molecular Medicine</i> , 2015, 7, 175-189.	6.9	147
25	Comparison of Methods for Profiling O-Glycosylation. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 719-727.	3.8	136
26	Implication of N-acetylglucosaminyltransferases III and V in cancer: gene regulation and signaling mechanism. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1999, 1455, 287-300.	3.8	125
27	Site-specific analysis of N-glycans on haptoglobin in sera of patients with pancreatic cancer: A novel approach for the development of tumor markers. <i>International Journal of Cancer</i> , 2008, 122, 2301-2309.	5.1	125
28	Enzymes for N-Glycan Branching and Their Genetic and Nongenetic Regulation in Cancer. <i>Biomolecules</i> , 2016, 6, 25.	4.0	125
29	Deletion of Core Fucosylation on α 3 β 1 Integrin Down-regulates Its Functions. <i>Journal of Biological Chemistry</i> , 2006, 281, 38343-38350.	3.4	123
30	Crystal structure of mammalian α 1,6-fucosyltransferase, FUT8. <i>Glycobiology</i> , 2007, 17, 455-466.	2.5	114
31	Decoding sugar functions by identifying target glycoproteins. <i>Current Opinion in Structural Biology</i> , 2006, 16, 561-566.	5.7	112
32	cDNA Cloning, Expression, and Chromosomal Localization of Human N-Acetylglucosaminyltransferase III (GnT-III) 1. <i>Journal of Biochemistry</i> , 1993, 113, 692-698.	1.7	111
33	Core fucosylation of E-cadherin enhances cell-cell adhesion in human colon carcinoma WiDr cells. <i>Cancer Science</i> , 2009, 100, 888-895.	3.9	111
34	Fucosylation of N-Glycans Regulates the Secretion of Hepatic Glycoproteins into Bile Ducts. <i>Journal of Biological Chemistry</i> , 2006, 281, 29797-29806.	3.4	110
35	Relationship between elevated FX expression and increased production of GDP-L-fucose, a common donor substrate for fucosylation in human hepatocellular carcinoma and hepatoma cell lines. <i>Cancer Research</i> , 2003, 63, 6282-9.	0.9	107
36	The Oxidation of Selenocysteine Is Involved in the Inactivation of Glutathione Peroxidase by Nitric Oxide Donor. <i>Journal of Biological Chemistry</i> , 1997, 272, 19152-19157.	3.4	106

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37	The Asn-420-linked Sugar Chain in Human Epidermal Growth Factor Receptor Suppresses Ligand-independent Spontaneous Oligomerization. <i>Journal of Biological Chemistry</i> , 2000, 275, 21988-21994.	3.4	105
38	Branched N-glycans and their implications for cell adhesion, signaling and clinical applications for cancer biomarkers and in therapeutics. <i>BMB Reports</i> , 2011, 44, 772-781.	2.4	104
39	Visualizing specific protein glycoforms by transmembrane fluorescence resonance energy transfer. <i>Nature Communications</i> , 2012, 3, 907.	12.8	103
40	E-cadherin and adherens-junctions stability in gastric carcinoma: Functional implications of glycosyltransferases involving N-glycan branching biosynthesis, N-acetylglucosaminyltransferases III and V. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 2690-2700.	2.4	101
41	Core Fucosylation on T Cells, Required for Activation of T-Cell Receptor Signaling and Induction of Colitis in Mice, Is Increased in Patients With Inflammatory Bowel Disease. <i>Gastroenterology</i> , 2016, 150, 1620-1632.	1.3	93
42	The Addition of Bisecting N-Acetylglucosamine Residues to E-cadherin Down-regulates the Tyrosine Phosphorylation of β 2-Catenin. <i>Journal of Biological Chemistry</i> , 2001, 276, 475-480.	3.4	88
43	Overexpression of N-Acetylglucosaminyltransferase III Enhances the Epidermal Growth Factor-induced Phosphorylation of ERK in HeLaS3 Cells by Up-regulation of the Internalization Rate of the Receptors. <i>Journal of Biological Chemistry</i> , 2001, 276, 11956-11962.	3.4	87
44	Protective effect of N-glycan bisecting GlcNAc residues on β -amyloid production in Alzheimer's disease. <i>Glycobiology</i> , 2010, 20, 99-106.	2.5	83
45	A glycomic approach to the identification and characterization of glycoprotein function in cells transfected with glycosyltransferase genes. <i>Proteomics</i> , 2001, 1, 239-247.	2.2	79
46	Possible role of coexpression of CD9 with membrane-anchored heparin-binding EGF-like growth factor and amphiregulin in cultured human keratinocyte growth. <i>Journal of Cellular Physiology</i> , 1997, 171, 291-298.	4.1	77
47	A Secreted Type of β 2,6-N-Acetylglucosaminyltransferase V (GnT-V) Induces Tumor Angiogenesis without Mediation of Glycosylation. <i>Journal of Biological Chemistry</i> , 2002, 277, 17002-17008.	3.4	77
48	Gene Transfection-mediated Overexpression of β 2,4-N-Acetylglucosamine Bisecting Oligosaccharides in Glioma Cell Line U373 MG Inhibits Epidermal Growth Factor Receptor Function. <i>Journal of Biological Chemistry</i> , 1997, 272, 9275-9279.	3.4	72
49	Phenotype Changes of Fut8 Knockout Mouse: Core Fucosylation Is Crucial for the Function of Growth Factor Receptor(s). <i>Methods in Enzymology</i> , 2006, 417, 11-22.	1.0	72
50	Induction of thioredoxin reductase as an adaptive response to acrolein in human umbilical vein endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2005, 327, 1058-1065.	2.1	71
51	β 1,6-Fucosyltransferase-deficient Mice Exhibit Multiple Behavioral Abnormalities Associated with a Schizophrenia-like Phenotype. <i>Journal of Biological Chemistry</i> , 2011, 286, 18434-18443.	3.4	70
52	Core Fucosylation of IgG B Cell Receptor Is Required for Antigen Recognition and Antibody Production. <i>Journal of Immunology</i> , 2015, 194, 2596-2606.	0.8	69
53	Induction of Endothelial Nitric-oxide Synthase Phosphorylation by the Raloxifene Analog LY117018 Is Differentially Mediated by Akt and Extracellular Signal-regulated Protein Kinase in Vascular Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 47642-47649.	3.4	67
54	Role of N-glycans in growth factor signaling. <i>Glycoconjugate Journal</i> , 2003, 20, 207-212.	2.7	67

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55	Reaction mechanism and substrate specificity for nucleotide sugar of mammalian α 1,6-fucosyltransferase—a large-scale preparation and characterization of recombinant human FUT8. <i>Glycobiology</i> , 2006, 16, 333-342.	2.5	67
56	Overexpression of N-Acetylglucosaminyltransferase III Disrupts the Tyrosine Phosphorylation of Trk with Resultant Signaling Dysfunction in PC12 Cells Treated with Nerve Growth Factor. <i>Journal of Biological Chemistry</i> , 1997, 272, 9629-9634.	3.4	65
57	Biological roles of sulfoglycolipids and pathophysiology of their deficiency. <i>Glycoconjugate Journal</i> , 2004, 21, 59-62.	2.7	65
58	Loss of Branched O-Mannosyl Glycans in Astrocytes Accelerates Remyelination. <i>Journal of Neuroscience</i> , 2013, 33, 10037-10047.	3.6	65
59	Core Fucosylation of the T Cell Receptor Is Required for T Cell Activation. <i>Frontiers in Immunology</i> , 2018, 9, 78.	4.8	65
60	Disease-associated glycans on cell surface proteins. <i>Molecular Aspects of Medicine</i> , 2016, 51, 56-70.	6.4	64
61	Towards an integrated proteomic and glycomic approach to finding cancer biomarkers. <i>Genome Medicine</i> , 2009, 1, 57.	8.2	63
62	Down regulation of superoxide dismutases and glutathione peroxidase by reactive oxygen and nitrogen species. <i>Free Radical Research</i> , 1999, 31, 301-308.	3.3	61
63	Expression of α 1-6 fucosyltransferase in rat tissues and human cancer cell lines. , 1997, 72, 1117-1121.		60
64	Structure and mechanism of cancer-associated N-acetylglucosaminyltransferase-V. <i>Nature Communications</i> , 2018, 9, 3380.	12.8	60
65	Membrane-anchored Heparin-binding Epidermal Growth Factor-like Growth Factor Acts as a Tumor Survival Factor in a Hepatoma Cell Line. <i>Journal of Biological Chemistry</i> , 1997, 272, 14349-14355.	3.4	59
66	Cell-Cell Interaction-dependent Regulation of N-Acetylglucosaminyltransferase III and the Bisected N-Glycans in GE11 Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 13038-13046.	3.4	57
67	Sensitivity of Heterozygous α 1,6-Fucosyltransferase Knock-out Mice to Cigarette Smoke-induced Emphysema. <i>Journal of Biological Chemistry</i> , 2012, 287, 16699-16708.	3.4	55
68	Addition of α 1-6 GlcNAc branching to the oligosaccharide attached to Asn 772 in the serine protease domain of matriptase plays a pivotal role in its stability and resistance against trypsin. <i>Glycobiology</i> , 2003, 14, 139-146.	2.5	52
69	α 1,4-N-Acetylglucosaminyltransferase III down-regulates neurite outgrowth induced by costimulation of epidermal growth factor and integrins through the Ras/ERK signaling pathway in PC12 cells. <i>Glycobiology</i> , 2003, 14, 177-186.	2.5	52
70	N-glycan of ErbB family plays a crucial role in dimer formation and tumor promotion. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 520-524.	2.4	52
71	The Asn418-Linked N-Glycan of ErbB3 Plays a Crucial Role in Preventing Spontaneous Heterodimerization and Tumor Promotion. <i>Cancer Research</i> , 2007, 67, 1935-1942.	0.9	51
72	The Absence of Core Fucose Up-regulates GnT-III and Wnt Target Genes. <i>Journal of Biological Chemistry</i> , 2014, 289, 11704-11714.	3.4	50

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73	Expression of Fucosyltransferase 8 Is Associated with an Unfavorable Clinical Outcome in Non-Small Cell Lung Cancers. <i>Oncology</i> , 2015, 88, 298-308.	1.9	49
74	Loss of Core Fucosylation of Low-Density Lipoprotein Receptor-Related Protein-1 Impairs Its Function, Leading to the Upregulation of Serum Levels of Insulin-Like Growth Factor-Binding Protein 3 in <i>Fut8</i> ^{-/-} Mice. <i>Journal of Biochemistry</i> , 2006, 139, 391-398.	1.7	47
75	An Alkynyl-Fucose Halts Hepatoma Cell Migration and Invasion by Inhibiting GDP-Fucose-Synthesizing Enzyme FX, TSTA3. <i>Cell Chemical Biology</i> , 2017, 24, 1467-1478.e5.	5.2	47
76	Testis-specific sulfoglycolipid, seminolipid, is essential for germ cell function in spermatogenesis. <i>Glycobiology</i> , 2005, 15, 649-654.	2.5	45
77	Requirement of <i>Fut8</i> for the expression of vascular endothelial growth factor receptor-2: a new mechanism for the emphysema-like changes observed in <i>Fut8</i> -deficient mice. <i>Journal of Biochemistry</i> , 2009, 145, 643-651.	1.7	44
78	High expression of N-acetylglucosaminyltransferase V in favorable neuroblastomas: Involvement of its effect on apoptosis. <i>FEBS Letters</i> , 2006, 580, 627-632.	2.8	42
79	Down-regulation of the Î±-Gal Epitope Expression in N-Glycans of Swine Endothelial Cells by Transfection with the N-Acetylglucosaminyltransferase III Gene. <i>Journal of Biological Chemistry</i> , 2001, 276, 32867-32874.	3.4	41
80	Cerebroside Sulfotransferase Deficiency Ameliorates L-selectin-dependent Monocyte Infiltration in the Kidney after Ureteral Obstruction. <i>Journal of Biological Chemistry</i> , 2004, 279, 2085-2090.	3.4	41
81	Loss of Î±1,6-Fucosyltransferase Decreases Hippocampal Long Term Potentiation. <i>Journal of Biological Chemistry</i> , 2015, 290, 17566-17575.	3.4	41
82	3D Structure and Function of Glycosyltransferases Involved in N-glycan Maturation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 437.	4.1	41
83	Lactosylsulfatide expression in hepatocellular carcinoma cells enhances cell adhesion to vitronectin and intrahepatic metastasis in nude mice. <i>International Journal of Cancer</i> , 2004, 110, 504-510.	5.1	39
84	Loss of Î±1,6-fucosyltransferase suppressed liver regeneration: implication of core fucose in the regulation of growth factor receptor-mediated cellular signaling. <i>Scientific Reports</i> , 2015, 5, 8264.	3.3	39
85	High-Sensitivity and Low-Toxicity Fucose Probe for Glycan Imaging and Biomarker Discovery. <i>Cell Chemical Biology</i> , 2016, 23, 782-792.	5.2	39
86	Reevaluation of a lectin antibody ELISA kit for measuring fucosylated haptoglobin in various conditions. <i>Clinica Chimica Acta</i> , 2013, 417, 48-53.	1.1	37
87	Integrated approach toward the discovery of glyco-biomarkers of inflammation-related diseases. <i>Annals of the New York Academy of Sciences</i> , 2012, 1253, 159-169.	3.8	36
88	O-mannosylation and N-glycosylation: two coordinated mechanisms regulating the tumour suppressor functions of E-cadherin in cancer. <i>Oncotarget</i> , 2016, 7, 65231-65246.	1.8	35
89	Amino-terminal Processing of Cell Surface Heparin-binding Epidermal Growth Factor-like Growth Factor Up-regulates Its Juxtacrine but Not Its Paracrine Growth Factor Activity. <i>Journal of Biological Chemistry</i> , 1996, 271, 30858-30863.	3.4	34
90	Site-specific Labeling of Cytoplasmic Peptide:N-Glycanase by N,N-Diacetylchitobiose-related Compounds. <i>Journal of Biological Chemistry</i> , 2006, 281, 22152-22160.	3.4	34

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91	Inactivation of glutathione peroxidase by nitric oxide leads to the accumulation of H ₂ O ₂ and the induction of HB-EGF via c-Jun NH ₂ -terminal kinase in rat aortic smooth muscle cells. <i>FASEB Journal</i> , 2001, 15, 1472-1474.	0.5	33
92	Neural functions of bisecting GlcNAc. <i>Glycoconjugate Journal</i> , 2018, 35, 345-351.	2.7	33
93	Redox Capacity of Cells Affects Inactivation of Glutathione Reductase by Nitrosative Stress. <i>Archives of Biochemistry and Biophysics</i> , 2000, 378, 123-130.	3.0	32
94	Core fucose is critical for CD14-dependent Toll-like receptor 4 signaling. <i>Glycobiology</i> , 2017, 27, 1006-1015.	2.5	32
95	Induction of Thioredoxin Reductase Gene Expression by Peroxynitrite in Human Umbilical Vein Endothelial Cells. <i>Biological Chemistry</i> , 2002, 383, 683-91.	2.5	31
96	Glyco-redox, a link between oxidative stress and changes of glycans: Lessons from research on glutathione, reactive oxygen and nitrogen species to glycobiology. <i>Archives of Biochemistry and Biophysics</i> , 2016, 595, 72-80.	3.0	31
97	Î²1,4-N-Acetylglucosaminyltransferase III potentiates Î²1 integrin-mediated neuritogenesis induced by serum deprivation in Neuro2a cells. <i>Glycobiology</i> , 2006, 16, 564-571.	2.5	30
98	Lysophosphatidylcholine Increases Expression of Heparin-Binding Epidermal Growth Factor-Like Growth Factor in Human T Lymphocytes. <i>Circulation Research</i> , 1997, 80, 638-644.	4.5	30
99	Localization of CD9, an Enhancer Protein for Proheparin-Binding Epidermal Growth Factor-Like Growth Factor, in Human Atherosclerotic Plaques. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000, 20, 1236-1243.	2.4	28
100	Apolipoprotein E Activates Akt Pathway in Neuro-2a in an Isoform-Specific Manner. <i>Biochemical and Biophysical Research Communications</i> , 2002, 292, 83-87.	2.1	28
101	Alteration in N-glycomics during mouse aging: a role for FUT8. <i>Aging Cell</i> , 2011, 10, 1056-1066.	6.7	28
102	Alteration of N-glycan expression profile and glycan pattern of glycoproteins in human hepatoma cells after HCV infection. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 1036-1045.	2.4	28
103	Reduced Î±1 Integrin/VCAM-1 Interactions Lead to Impaired Pre-B Cell Repopulation in Alpha 1,6-Fucosyltransferase Deficient Mice. <i>Glycobiology</i> , 2007, 18, 114-124.	2.5	27
104	A sugar-coated switch for cellular growth and arrest. <i>Nature Chemical Biology</i> , 2007, 3, 307-309.	8.0	27
105	Î±1,6-Fucosyltransferase (Fut8) is implicated in vulnerability to elastase-induced emphysema in mice and a possible non-invasive predictive marker for disease progression and exacerbations in chronic obstructive pulmonary disease (COPD). <i>Biochemical and Biophysical Research Communications</i> , 2012, 424, 112-117.	2.1	27
106	True significance of N-acetylglucosaminyltransferases GnT-III, V and Î±1,6 fucosyltransferase in epithelial-mesenchymal transition and cancer. <i>Molecular Aspects of Medicine</i> , 2021, 79, 100905.	6.4	27
107	Core Fucosylation of Î¼ Heavy Chains Regulates Assembly and Intracellular Signaling of Precursor B Cell Receptors. <i>Journal of Biological Chemistry</i> , 2012, 287, 2500-2508.	3.4	26
108	Core fucosylation of N-linked glycans in leukocyte adhesion deficiency/congenital disorder of glycosylation IIc fibroblasts. <i>Glycobiology</i> , 2005, 15, 924-934.	2.5	25

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109	Fucosylated surfactant protein-D is a biomarker candidate for the development of chronic obstructive pulmonary disease. <i>Journal of Proteomics</i> , 2015, 127, 386-394.	2.4	25
110	<i>N</i> -glycans of growth factor receptors: their role in receptor function and disease implications. <i>Clinical Science</i> , 2016, 130, 1781-1792.	4.3	25
111	Comparison of analytical methods for profiling N- and O-linked glycans from cultured cell lines. <i>Glycoconjugate Journal</i> , 2016, 33, 405-415.	2.7	25
112	Nitric Oxide Synthase from Rat Colorectum: Purification, Peptide Sequencing, Partial PCR Cloning, and Immunohistochemistry1. <i>Journal of Biochemistry</i> , 1994, 115, 602-607.	1.7	24
113	Reactive oxygen species enhances the induction of inducible nitric oxide synthase by sphingomyelinase in RAW264.7 cells. <i>Lipids and Lipid Metabolism</i> , 1998, 1393, 203-210.	2.6	24
114	From glycomics to functional glycomics of sugar chains: Identification of target proteins with functional changes using gene targeting mice and knock down cells of FUT8 as examples. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 1881-1889.	2.3	24
115	From the $\hat{3}$ -Glutamyl Cycle to the Glycan Cycle: A Road with Many Turns and Pleasant Surprises. <i>Journal of Biological Chemistry</i> , 2009, 284, 34469-34478.	3.4	24
116	N-Glycans of SREC-I (scavenger receptor expressed by endothelial cells): Essential role for ligand binding, trafficking and stability. <i>Glycobiology</i> , 2012, 22, 714-724.	2.5	24
117	The Inhibitory Role of $\hat{2}$,6-Sialylation in Adipogenesis. <i>Journal of Biological Chemistry</i> , 2017, 292, 2278-2286.	3.4	23
118	CuZnSOD and MnSOD immunoreactivity in brain stem motor neurons from amyotrophic lateral sclerosis patients. <i>Acta Neuropathologica</i> , 1998, 95, 63-70.	7.7	22
119	Core fucose is essential glycosylation for CD14-dependent Toll-like receptor 4 and Toll-like receptor 2 signalling in macrophages. <i>Journal of Biochemistry</i> , 2019, 165, 227-237.	1.7	22
120	Glycation vs. glycosylation: a tale of two different chemistries and biology in Alzheimer's disease. <i>Glycoconjugate Journal</i> , 2016, 33, 487-497.	2.7	20
121	A keratan sulfate disaccharide prevents inflammation and the progression of emphysema in murine models. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 312, L268-L276.	2.9	20
122	The contribution of fructose and nitric oxide to oxidative stress in hamster islet tumor (HIT) cells through the inactivation of glutathione peroxidase. <i>Electrophoresis</i> , 2000, 21, 285-288.	2.4	19
123	Role of glycosyltransferases in carcinogenesis; growth factor signaling and EMT/MET programs. <i>Glycoconjugate Journal</i> , 2022, 39, 167-176.	2.7	19
124	Synthesis of a Bisubstrate-Type Inhibitor of N-Acetylglucosaminyltransferases. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5674-5677.	13.8	17
125	Functional glycomics and evidence for gain- and loss-of-functions of target proteins for glycosyltransferases involved in <i>N</i> -glycan biosynthesis: their pivotal roles in growth and development, cancer metastasis and antibody therapy against cancer. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2004, 80, 82-91.	3.8	16
126	Human Disease Glycomics/Proteome Initiative (HGPI). <i>Molecular and Cellular Proteomics</i> , 2008, 7, 626-627.	3.8	16

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127	A three-step purification of manganese superoxide dismutase from human liver on both large and small scales. <i>Protein Expression and Purification</i> , 1991, 2, 170-174.	1.3	13
128	A Common Pathway for Intracellular Reactive Oxygen Species Production by Glycooxidative and Nitroxidative Stress in Vascular Endothelial Cells and Smooth Muscle Cells. <i>Annals of the New York Academy of Sciences</i> , 2005, 1043, 521-528.	3.8	13
129	Identification and characterization of UDP-mannose in human cell lines and mouse organs: Differential distribution across brain regions and organs. <i>Biochemical and Biophysical Research Communications</i> , 2018, 495, 401-407.	2.1	12
130	Identification of distinct N-glycosylation patterns on extracellular vesicles from small-cell and non-small-cell lung cancer cells. <i>Journal of Biological Chemistry</i> , 2022, 298, 101950.	3.4	12
131	A Glycomic Approach to Hepatic Tumors in N-acetylglucosaminyltransferase III (GnT-III) Transgenic Mice Induced by Diethylnitrosamine (DEN): Identification of Haptoglobin as a Target Molecule of GnT-III. <i>Free Radical Research</i> , 2002, 36, 827-833.	3.3	11
132	Synthesis of N-glycan units for assessment of substrate structural requirements of N-acetylglucosaminyltransferase III. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 4533-4537.	2.2	11
133	Involvement of the α -helical and Src homology 3 domains in the molecular assembly and enzymatic activity of human α 1,6-fucosyltransferase, FUT8. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129596.	2.4	11
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