

Naoyuki Taniguci

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504
papers

23,343
citations

78
h-index

118
g-index

525
ext. papers

25,350
ext. citations

5.3
avg, IF

6.44
L-index

#	Paper	IF	Citations
504	Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015 , 25, 1323-4	5.8	585
503	Comparison of the methods for profiling glycoprotein glycans--HUPO Human Disease Glycomics/Proteome Initiative multi-institutional study. <i>Glycobiology</i> , 2007 , 17, 411-22	5.8	360
502	Dysregulation of TGF-beta1 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, 15791-6	11.5	341
501	Functional roles of N-glycans in cell signaling and cell adhesion in cancer. <i>Cancer Science</i> , 2008 , 99, 1304-60	6.0	300
500	Estrogen induces the Akt-dependent activation of endothelial nitric-oxide synthase in vascular endothelial cells. <i>Journal of Biological Chemistry</i> , 2001 , 276, 3459-67	5.4	286
499	Paranodal junction formation and spermatogenesis require sulfoglycolipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 4227-32	11.5	266
498	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, 209-20	7.3	257
497	Inactivation of glutathione peroxidase by nitric oxide. Implication for cytotoxicity. <i>Journal of Biological Chemistry</i> , 1995 , 270, 21035-9	5.4	247
496	Core fucosylation regulates epidermal growth factor receptor-mediated intracellular signaling. <i>Journal of Biological Chemistry</i> , 2006 , 281, 2572-7	5.4	234
495	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, 1015-9	5.4	234
494	Glycans and cancer: role of N-glycans in cancer biomarker, progression and metastasis, and therapeutics. <i>Advances in Cancer Research</i> , 2015 , 126, 11-51	5.9	228
493	Reducing sugars trigger oxidative modification and apoptosis in pancreatic beta-cells by provoking oxidative stress through the glycation reaction. <i>Biochemical Journal</i> , 1996 , 320 (Pt 3), 855-63	3.8	212
492	Domain-specific mutations in TGFB1 result in Camurati-Engelmann disease. <i>Nature Genetics</i> , 2000 , 26, 19-20	36.3	203
491	Branched N-glycans regulate the biological functions of integrins and cadherins. <i>FEBS Journal</i> , 2008 , 275, 1939-48	5.7	173
490	Core fucose and bisecting GlcNAc, the direct modifiers of the N-glycan core: their functions and target proteins. <i>Carbohydrate Research</i> , 2009 , 344, 1387-90	2.9	172
489	HB-EGF is a potent inducer of tumor growth and angiogenesis. <i>Cancer Research</i> , 2004 , 64, 5283-90	10.1	170
488	Active glycation in neurofibrillary pathology of Alzheimer disease: N(epsilon)-(carboxymethyl) lysine and hexitol-lysine. <i>Free Radical Biology and Medicine</i> , 2001 , 31, 175-80	7.8	165

487	Induction of apoptotic cell death by methylglyoxal and 3-deoxyglucosone in macrophage-derived cell lines. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 225, 219-24	3-4	164
486	Purification and cDNA cloning of porcine brain GDP-L-Fuc:N-acetyl-beta-D-glucosaminide alpha1-->6fucosyltransferase. <i>Journal of Biological Chemistry</i> , 1996 , 271, 27810-7	5-4	163
485	Dorfin ubiquitylates mutant SOD1 and prevents mutant SOD1-mediated neurotoxicity. <i>Journal of Biological Chemistry</i> , 2002 , 277, 36793-8	5-4	153
484	Regulation of integrin functions by N-glycans. <i>Glycoconjugate Journal</i> , 2004 , 21, 9-15	3	149
483	Aberrant glycosylation of E-cadherin enhances cell-cell binding to suppress metastasis. <i>Journal of Biological Chemistry</i> , 1996 , 271, 13811-5	5-4	148
482	A circadian clock gene, Rev-erb β modulates the inflammatory function of macrophages through the negative regulation of Ccl2 expression. <i>Journal of Immunology</i> , 2014 , 192, 407-17	5-3	147
481	Oxidative stress caused by inactivation of glutathione peroxidase and adaptive responses. <i>Biological Chemistry</i> , 2003 , 384, 567-74	4-5	146
480	Prometastatic effect of N-acetylglucosaminyltransferase V is due to modification and stabilization of active matriptase by adding beta 1-6 GlcNAc branching. <i>Journal of Biological Chemistry</i> , 2002 , 277, 16960-7	5-4	144
479	Influence of oxidative stress on induced tolerance to ischemia in gerbil hippocampal neurons. <i>Brain Research</i> , 1992 , 599, 246-52	3-7	143
478	Expression and prognostic roles of the G1-S modulators in hepatocellular carcinoma: p27 independently predicts the recurrence. <i>Hepatology</i> , 1999 , 30, 90-9	11.2	142
477	Carbohydrate binding specificity of a fucose-specific lectin from <i>Aspergillus oryzae</i> : a novel probe for core fucose. <i>Journal of Biological Chemistry</i> , 2007 , 282, 15700-8	5-4	138
476	Peroxiredoxin IV is a secretable protein with heparin-binding properties under reduced conditions. <i>Journal of Biochemistry</i> , 2000 , 127, 493-501	3-1	137
475	Introduction of bisecting GlcNAc into integrin alpha5beta1 reduces ligand binding and down-regulates cell adhesion and cell migration. <i>Journal of Biological Chemistry</i> , 2004 , 279, 19747-54	5-4	135
474	Increased protein glycation in cerebrospinal fluid of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2001 , 22, 397-402	5.6	131
473	Purification and characterization of UDP-N-acetylglucosamine: alpha-6-D-mannoside beta 1-6N-acetylglucosaminyltransferase (N-acetylglucosaminyltransferase V) from a human lung cancer cell line. <i>Journal of Biochemistry</i> , 1993 , 113, 614-9	3-1	129
472	Comparison of methods for profiling O-glycosylation: Human Proteome Organisation Human Disease Glycomics/Proteome Initiative multi-institutional study of IgA1. <i>Molecular and Cellular Proteomics</i> , 2010 , 9, 719-27	7.6	126
471	Intracellular phosphatidylserine is essential for retrograde membrane traffic through endosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15846-51	11.5	122
470	Uncoupling protein 2 plays an important role in nitric oxide production of lipopolysaccharide-stimulated macrophages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 9392-7	11.5	120

469	The interaction between Siglec-15 and tumor-associated sialyl-Tn antigen enhances TGF- β secretion from monocytes/macrophages through the DAP12-Syk pathway. <i>Glycobiology</i> , 2013 , 23, 178-87	5.8	115
468	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, 2301-9	7.5	115
467	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	6.9	115
466	Structure of serum transferrin in carbohydrate-deficient glycoprotein syndrome. <i>Biochemical and Biophysical Research Communications</i> , 1992 , 189, 832-6	3.4	115
465	An aberrant sugar modification of BACE1 blocks its lysosomal targeting in Alzheimer's disease. <i>EMBO Molecular Medicine</i> , 2015 , 7, 175-89	12	114
464	Cloning of the peroxiredoxin gene family in rats and characterization of the fourth member. <i>FEBS Letters</i> , 1999 , 443, 246-50	3.8	113
463	Modulation of E-cadherin function and dysfunction by N-glycosylation. <i>Cellular and Molecular Life Sciences</i> , 2011 , 68, 1011-20	10.3	112
462	Gene expression of alpha1-6 fucosyltransferase in human hepatoma tissues: a possible implication for increased fucosylation of alpha-fetoprotein. <i>Hepatology</i> , 1998 , 28, 944-52	11.2	112
461	Gastrin induces heparin-binding epidermal growth factor-like growth factor in rat gastric epithelial cells transfected with gastrin receptor. <i>Gastroenterology</i> , 1999 , 116, 78-89	13.3	109
460	N-acetylglucosaminyltransferase III antagonizes the effect of N-acetylglucosaminyltransferase V on alpha3beta1 integrin-mediated cell migration. <i>Journal of Biological Chemistry</i> , 2006 , 281, 32122-30	5.4	108
459	Oxidative modification to cysteine sulfonic acid of Cys111 in human copper-zinc superoxide dismutase. <i>Journal of Biological Chemistry</i> , 2007 , 282, 35933-44	5.4	107
458	Simultaneous determination of nucleotide sugars with ion-pair reversed-phase HPLC. <i>Glycobiology</i> , 2010 , 20, 865-71	5.8	106
457	Decoding sugar functions by identifying target glycoproteins. <i>Current Opinion in Structural Biology</i> , 2006 , 16, 561-6	8.1	106
456	cDNA cloning, expression, and chromosomal localization of human N-acetylglucosaminyltransferase III (GnT-III). <i>Journal of Biochemistry</i> , 1993 , 113, 692-8	3.1	104
455	Deletion of core fucosylation on alpha3beta1 integrin down-regulates its functions. <i>Journal of Biological Chemistry</i> , 2006 , 281, 38343-50	5.4	101
454	Sulfotransferases and sulfated oligosaccharides. <i>Medicinal Research Reviews</i> , 2002 , 22, 637-54	14.4	101
453	Determination of N-acetylglucosaminyltransferases III, IV and V in normal and hepatoma tissues of rats. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1990 , 1035, 313-8	4	99
452	Fucosylation of N-glycans regulates the secretion of hepatic glycoproteins into bile ducts. <i>Journal of Biological Chemistry</i> , 2006 , 281, 29797-806	5.4	98

451	Crystal structure of mammalian alpha1,6-fucosyltransferase, FUT8. <i>Glycobiology</i> , 2007 , 17, 455-66	5.8	98
450	Biochemical visualization of cell surface molecular clustering in living cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7405-9	11.5	96
449	Whole-body hyperthermia provides biphasic cardioprotection against ischemia/reperfusion injury in the rat. <i>Circulation</i> , 1998 , 98, 1414-21	16.7	96
448	UDP-GlcNAc concentration is an important factor in the biosynthesis of beta1,6-branched oligosaccharides: regulation based on the kinetic properties of N-acetylglucosaminyltransferase V. <i>Glycobiology</i> , 2002 , 12, 119-27	5.8	92
447	Selective induction of heparin-binding epidermal growth factor-like growth factor by methylglyoxal and 3-deoxyglucosone in rat aortic smooth muscle cells. The involvement of reactive oxygen species formation and a possible implication for atherogenesis in diabetes. <i>Journal of Biological Chemistry</i> , 1997 , 272, 18453-9	5.4	91
446	The Asn-420-linked sugar chain in human epidermal growth factor receptor suppresses ligand-independent spontaneous oligomerization. Possible role of a specific sugar chain in controllable receptor activation. <i>Journal of Biological Chemistry</i> , 2000 , 275, 21988-94	5.4	91
445	Core fucosylation of E-cadherin enhances cell-cell adhesion in human colon carcinoma WiDr cells. <i>Cancer Science</i> , 2009 , 100, 888-95	6.9	90
444	Remodeling of the major pig xenoantigen by N-acetylglucosaminyltransferase III in transgenic pig. <i>Journal of Biological Chemistry</i> , 2001 , 276, 39310-9	5.4	90
443	The oxidation of selenocysteine is involved in the inactivation of glutathione peroxidase by nitric oxide donor. <i>Journal of Biological Chemistry</i> , 1997 , 272, 19152-7	5.4	89
442	Expression of heparin-binding epidermal growth factor in human hepatocellular carcinoma. <i>Gastroenterology</i> , 1994 , 107, 1799-804	13.3	89
441	Transcriptional regulation of the N-acetylglucosaminyltransferase V gene in human bile duct carcinoma cells (HuCC-T1) is mediated by Ets-1. <i>Journal of Biological Chemistry</i> , 1996 , 271, 26706-12	5.4	88
440	Clinical significances of superoxide dismutases: changes in aging, diabetes, ischemia, and cancer. <i>Advances in Clinical Chemistry</i> , 1992 , 29, 1-59	5.8	88
439	TGF-beta1 triggers oxidative modifications and enhances apoptosis in HIT cells through accumulation of reactive oxygen species by suppression of catalase and glutathione peroxidase. <i>Free Radical Biology and Medicine</i> , 1997 , 22, 1007-17	7.8	87
438	A potent inhibitor of inducible nitric oxide synthase, ONO-1714, a cyclic amidine derivative. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 270, 663-7	3.4	87
437	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, 772-81	5.5	87
436	Visualizing specific protein glycoforms by transmembrane fluorescence resonance energy transfer. <i>Nature Communications</i> , 2012 , 3, 907	17.4	86
435	N-glycosylation of the beta-propeller domain of the integrin alpha5 subunit is essential for alpha5beta1 heterodimerization, expression on the cell surface, and its biological function. <i>Journal of Biological Chemistry</i> , 2006 , 281, 33258-67	5.4	84
434	Alpha2,6-sialic acid on platelet endothelial cell adhesion molecule (PECAM) regulates its homophilic interactions and downstream antiapoptotic signaling. <i>Journal of Biological Chemistry</i> , 2010 , 285, 6515-21	5.4	83

433	N-Acetylglucosaminyltransferase IX acts on the GlcNAc beta 1,2-Man alpha 1-Ser/Thr moiety, forming a 2,6-branched structure in brain O-mannosyl glycan. <i>Journal of Biological Chemistry</i> , 2004 , 279, 2337-40	5.4	83
432	Localization of heparin-binding epidermal growth factor-like growth factor in human gastric mucosa. <i>Gastroenterology</i> , 1995 , 109, 1051-9	13.3	83
431	Domain-specific mutations of a transforming growth factor (TGF)-beta 1 latency-associated peptide cause Camurati-Engelmann disease because of the formation of a constitutively active form of TGF-beta 1. <i>Journal of Biological Chemistry</i> , 2001 , 276, 11469-72	5.4	80
430	Enzymes for N-Glycan Branching and Their Genetic and Nongenetic Regulation in Cancer. <i>Biomolecules</i> , 2016 , 6,	5.9	80
429	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, 2690-700	4	79
428	A "second window of protection" occurs 24 h after ischemic preconditioning in the rat heart. <i>Journal of Molecular and Cellular Cardiology</i> , 1998 , 30, 1181-9	5.8	79
427	Cell Imaging: In Situ Ligation of High- and Low-Affinity Ligands to Cell Surface Receptors Enables Highly Selective Recognition (Adv. Sci. 11/2017). <i>Advanced Science</i> , 2017 , 4,	13.6	78
426	Deficiency of GMDS leads to escape from NK cell-mediated tumor surveillance through modulation of TRAIL signaling. <i>Gastroenterology</i> , 2009 , 137, 188-98, 198.e1-2	13.3	78
425	In vivo cleavage of alpha2,6-sialyltransferase by Alzheimer beta-secretase. <i>Journal of Biological Chemistry</i> , 2005 , 280, 8589-95	5.4	77
424	The addition of bisecting N-acetylglucosamine residues to E-cadherin down-regulates the tyrosine phosphorylation of beta-catenin. <i>Journal of Biological Chemistry</i> , 2001 , 276, 475-80	5.4	77
423	Brain endothelial cells produce amyloid {beta} from amyloid precursor protein 770 and preferentially secrete the O-glycosylated form. <i>Journal of Biological Chemistry</i> , 2010 , 285, 40097-103	5.4	76
422	Molecular cloning and characterization of human GnT-IX, a novel beta1,6-N-acetylglucosaminyltransferase that is specifically expressed in the brain. <i>Journal of Biological Chemistry</i> , 2003 , 278, 43102-9	5.4	76
421	Identification of the binding site of methylglyoxal on glutathione peroxidase: methylglyoxal inhibits glutathione peroxidase activity via binding to glutathione binding sites Arg 184 and 185. <i>Free Radical Research</i> , 2003 , 37, 205-11	4	75
420	Acrolein induces cyclooxygenase-2 and prostaglandin production in human umbilical vein endothelial cells: roles of p38 MAP kinase. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 1319-25	9.4	74
419	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, 11956-62	5.4	74
418	Induction of nitric oxide synthase and concomitant suppression of superoxide dismutases in experimental colitis in rats. <i>Archives of Biochemistry and Biophysics</i> , 1995 , 324, 41-7	4.1	74
417	Palmitoylated Ras proteins traffic through recycling endosomes to the plasma membrane during exocytosis. <i>Journal of Cell Biology</i> , 2010 , 191, 23-9	7.3	73
416	Expression of alpha1,6-fucosyltransferase (FUT8) in papillary carcinoma of the thyroid: its linkage to biological aggressiveness and anaplastic transformation. <i>Cancer Letters</i> , 2003 , 200, 167-72	9.9	73

415	Regulation of the GnT-V promoter by transcription factor Ets-1 in various cancer cell lines. <i>Journal of Biological Chemistry</i> , 1999 , 274, 22941-8	5.4	73
414	Role of heparin-binding epidermal growth factor-like growth factor as a hepatotrophic factor in rat liver regeneration after partial hepatectomy. <i>Hepatology</i> , 1995 , 22, 1584-1590	11.2	73
413	Functional proteomics study reveals that N-Acetylglucosaminyltransferase V reinforces the invasive/metastatic potential of colon cancer through aberrant glycosylation on tissue inhibitor of metalloproteinase-1. <i>Molecular and Cellular Proteomics</i> , 2008 , 7, 1-14	7.6	72
412	A glycomic approach to the identification and characterization of glycoprotein function in cells transfected with glycosyltransferase genes. <i>Proteomics</i> , 2001 , 1, 239-47	4.8	72
411	Heparin-binding epidermal growth factor-like growth factor stimulates mitogenic signaling and is highly expressed in human malignant gliomas. <i>Acta Neuropathologica</i> , 1998 , 96, 322-8	14.3	70
410	Man2C1, an alpha-mannosidase, is involved in the trimming of free oligosaccharides in the cytosol. <i>Biochemical Journal</i> , 2006 , 400, 33-41	3.8	69
409	In vivo glycation of aldehyde reductase, a major 3-deoxyglucosone reducing enzyme: identification of glycation sites. <i>Biochemistry</i> , 1995 , 34, 1433-8	3.2	69
408	Induction of protective immunity by vaccination with wild-type apo superoxide dismutase 1 in mutant SOD1 transgenic mice. <i>Journal of Neuro pathology and Experimental Neurology</i> , 2010 , 69, 1044-56 ^{3.1}		67
407	Elevation of aldose reductase gene expression in rat primary hepatoma and hepatoma cell lines: implication in detoxification of cytotoxic aldehydes. <i>International Journal of Cancer</i> , 1995 , 62, 749-54	7.5	66
406	Glycomic analysis of alpha-fetoprotein L3 in hepatoma cell lines and hepatocellular carcinoma patients. <i>Journal of Proteome Research</i> , 2008 , 7, 2222-33	5.6	65
405	The O-fucosyltransferase O-fut1 is an extracellular component that is essential for the constitutive endocytic trafficking of Notch in Drosophila. <i>Development (Cambridge)</i> , 2007 , 134, 1347-56	6.6	65
404	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, 1058-65	3.4	65
403	Liver regeneration in heparin-binding EGF-like growth factor transgenic mice after partial hepatectomy. <i>Gastroenterology</i> , 2003 , 124, 701-7	13.3	65
402	Inhibition of phospholamban phosphorylation by O-GlcNAcylation: implications for diabetic cardiomyopathy. <i>Glycobiology</i> , 2010 , 20, 1217-26	5.8	64
401	Alterations of superoxide dismutase iso-enzyme activity, content, and mRNA expression with aging in rat skeletal muscle. <i>Mechanisms of Ageing and Development</i> , 1995 , 84, 65-76	5.6	64
400	Serum-manganese-superoxide dismutase: normal values and increased levels in patients with acute myocardial infarction and several malignant diseases determined by an enzyme-linked immunosorbent assay using a monoclonal antibody. <i>Journal of Immunological Methods</i> , 1990 , 127, 249-54	2.5	64
399	N-glycan and Alzheimer's disease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 2447-2454		63
398	Protective effect of N-glycan bisecting GlcNAc residues on beta-amyloid production in Alzheimer's disease. <i>Glycobiology</i> , 2010 , 20, 99-106	5.8	63

397	Nuclear translocation of extracellular superoxide dismutase. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 296, 54-61	3.4	63
396	alpha1,6-fucosyltransferase is highly and specifically expressed in human ovarian serous adenocarcinomas. <i>International Journal of Cancer</i> , 2000 , 88, 914-9	7.5	63
395	A secreted type of beta 1,6-N-acetylglucosaminyltransferase V (GnT-V) induces tumor angiogenesis without mediation of glycosylation: a novel function of GnT-V distinct from the original glycosyltransferase activity. <i>Journal of Biological Chemistry</i> , 2002 , 277, 17002-8	5.4	62
394	A single dose of lipopolysaccharide into mice with emphysema mimics human chronic obstructive pulmonary disease exacerbation as assessed by micro-computed tomography. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013 , 49, 971-7	5.7	61
393	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, 291-8	7	61
392	Reaction mechanism and substrate specificity for nucleotide sugar of mammalian alpha1,6-fucosyltransferase--a large-scale preparation and characterization of recombinant human FUT8. <i>Glycobiology</i> , 2006 , 16, 333-42	5.8	61
391	Alpha1,6-fucosyltransferase-deficient mice exhibit multiple behavioral abnormalities associated with a schizophrenia-like phenotype: importance of the balance between the dopamine and serotonin systems. <i>Journal of Biological Chemistry</i> , 2011 , 286, 18434-43	5.4	60
390	A high expression of GDP-fucose transporter in hepatocellular carcinoma is a key factor for increases in fucosylation. <i>Glycobiology</i> , 2007 , 17, 1311-20	5.8	60
389	Potential of N-glycan in cell adhesion and migration as either a positive or negative regulator. <i>Cell Adhesion and Migration</i> , 2008 , 2, 243-5	3.2	59
388	Gene expression of gamma-glutamyltranspeptidase. <i>Methods in Enzymology</i> , 2005 , 401, 408-25	1.7	59
387	Involvement of Ser-451 and Ser-452 in the catalysis of human gamma-glutamyl transpeptidase. <i>Journal of Biological Chemistry</i> , 1995 , 270, 22223-8	5.4	59
386	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	13.3	58
385	Heat shock-induced manganese superoxide dismutase enhances the tolerance of cardiac myocytes to hypoxia-reoxygenation injury. <i>Journal of Molecular and Cellular Cardiology</i> , 1997 , 29, 1805-13	5.8	58
384	Expression of alpha1-6 fucosyltransferase in rat tissues and human cancer cell lines. <i>International Journal of Cancer</i> , 1997 , 72, 1117-21	7.5	58
383	Biological roles of sulfoglycolipids and pathophysiology of their deficiency. <i>Glycoconjugate Journal</i> , 2004 , 21, 59-62	3	58
382	Glycation of human beta 2-microglobulin in patients with hemodialysis-associated amyloidosis: identification of the glycated sites. <i>Biochemistry</i> , 1994 , 33, 12215-21	3.2	58
381	A mutual regulation between cell-cell adhesion and N-glycosylation: implication of the bisecting GlcNAc for biological functions. <i>Journal of Proteome Research</i> , 2009 , 8, 431-5	5.6	57
380	Towards an integrated proteomic and glycomic approach to finding cancer biomarkers. <i>Genome Medicine</i> , 2009 , 1, 57	14.4	57

379	Role of N-glycans in growth factor signaling. <i>Glycoconjugate Journal</i> , 2004 , 20, 207-12	3	57
378	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, 47642-9	5.4	57
377	Induction of Mn-superoxide dismutase by tumor necrosis factor, interleukin-1 and interleukin-6 in human hepatoma cells. <i>Biochemical and Biophysical Research Communications</i> , 1992 , 182, 1100-7	3.4	57
376	A method for the determination of N-acetylglucosaminyltransferase III activity in rat tissues involving HPLC. <i>Analytical Biochemistry</i> , 1988 , 170, 349-54	3.1	57
375	Loss of branched O-mannosyl glycans in astrocytes accelerates remyelination. <i>Journal of Neuroscience</i> , 2013 , 33, 10037-47	6.6	56
374	Expression of N-acetylglucosaminyltransferase v is associated with prognosis and histology in non-small cell lung cancers. <i>Clinical Cancer Research</i> , 2004 , 10, 1773-9	12.9	56
373	Elevated O-GlcNAcylation promotes colonic inflammation and tumorigenesis by modulating NF- κ B signaling. <i>Oncotarget</i> , 2015 , 6, 12529-42	3.3	56
372	Loss of Siglec-14 reduces the risk of chronic obstructive pulmonary disease exacerbation. <i>Cellular and Molecular Life Sciences</i> , 2013 , 70, 3199-210	10.3	55
371	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	1.7	55
370	ABCC13, an unusual truncated ABC transporter, is highly expressed in fetal human liver. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 299, 410-7	3.4	55
369	Purification and characterization of UDP-N-acetylglucosamine: alpha1,3-D-mannoside beta1,4-N-acetylglucosaminyltransferase (N-acetylglucosaminyltransferase-IV) from bovine small intestine. <i>Journal of Biological Chemistry</i> , 1997 , 272, 22721-7	5.4	54
368	Augmented expression of peroxiredoxin VI in rat lung and kidney after birth implies an antioxidative role. <i>FEBS Journal</i> , 2001 , 268, 218-25		54
367	Enhanced epithelial-mesenchymal transition-like phenotype in N-acetylglucosaminyltransferase V transgenic mouse skin promotes wound healing. <i>Journal of Biological Chemistry</i> , 2011 , 286, 28303-11	5.4	53
366	Capillary electrophoresis-electrospray ionization mass spectrometry for rapid and sensitive N-glycan analysis of glycoproteins as 9-fluorenylmethyl derivatives. <i>Glycobiology</i> , 2009 , 19, 135-43	5.8	53
365	Expression of heparin-binding epidermal growth factor-like growth factor in neointimal cells induced by balloon injury in rat carotid arteries. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1996 , 16, 1524-31	9.4	53
364	Metabolic predisposition of a novel mutant (LEC rats) to hereditary hepatitis and hepatoma: alterations of the drug metabolizing enzymes. <i>Carcinogenesis</i> , 1988 , 9, 1569-72	4.6	53
363	Expression of heparin-binding epidermal growth factor-like growth factor during pancreas development. A potential role of PDX-1 in transcriptional activation. <i>Journal of Biological Chemistry</i> , 1997 , 272, 29137-43	5.4	52
362	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, 14349-55	5.4	52

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