

Lance Wells

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

151
papers

9,146
citations

51
h-index

93
g-index

169
ext. papers

10,332
ext. citations

7.3
avg, IF

5.99
L-index

#	Paper	IF	Citations
151	Generation of an Interactome for the Tetratricopeptide Repeat Domain of O-GlcNAc Transferase Indicates a Role for the Enzyme in Intellectual Disability. <i>Journal of Proteome Research</i> , 2021 , 20, 1229-1242	5.6	5
150	Crystal structures of β 1,4-N-acetylglucosaminyltransferase 2: structural basis for inherited muscular dystrophies. <i>Acta Crystallographica Section D: Structural Biology</i> , 2021 , 77, 486-495	5.5	1
149	Separation and Identification of Permethylated Glycan Isomers by Reversed Phase NanoLC-NSI-MS. <i>Molecular and Cellular Proteomics</i> , 2021 , 20, 100045	7.6	6
148	Regulating the Regulators: Mechanisms of Substrate Selection of the O-GlcNAc Cycling Enzymes OGT and OGA. <i>Glycobiology</i> , 2021 , 31, 724-733	5.8	9
147	Proteomics-Based Insights Into the SARS-CoV-2-Mediated COVID-19 Pandemic: A Review of the First Year of Research. <i>Molecular and Cellular Proteomics</i> , 2021 , 20, 100103	7.6	7
146	The translocon-associated protein (TRAP) complex regulates quality control of N-linked glycosylation during ER stress. <i>Science Advances</i> , 2021 , 7,	14.3	5
145	Effects of chronic exposure to low levels of IR on Medaka (<i>Oryzias latipes</i>): a proteomic and bioinformatic approach. <i>International Journal of Radiation Biology</i> , 2021 , 97, 1485-1501	2.9	1
144	A terminal β -galactose modification regulates an E3 ubiquitin ligase subunit in. <i>Journal of Biological Chemistry</i> , 2020 , 295, 9223-9243	5.4	2
143	Identification of a novel base J binding protein complex involved in RNA polymerase II transcription termination in trypanosomes. <i>PLoS Genetics</i> , 2020 , 16, e1008390	6	17
142	An intellectual disability syndrome with single-nucleotide variants in O-GlcNAc transferase. <i>European Journal of Human Genetics</i> , 2020 , 28, 706-714	5.3	17
141	Glycan Profiles of gp120 Protein Vaccines from Four Major HIV-1 Subtypes Produced from Different Host Cell Lines under Non-GMP or GMP Conditions. <i>Journal of Virology</i> , 2020 , 94,	6.6	9
140	HNK-1 sulfotransferase modulates β 1,3-galactosyl glycosylation by 3-O-sulfation of glucuronic acid on matriglycan. <i>Glycobiology</i> , 2020 , 30, 817-829	5.8	4
139	The Role of the O-GlcNAc Transferase Interactome in X-linked Intellectual Disability. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
138	Glycomics-informed glycoproteomic analysis of site-specific glycosylation for SARS-CoV-2 spike protein. <i>STAR Protocols</i> , 2020 , 1, 100214	1.4	9
137	Human UDP-galactose 4-epimerase (GALE) is required for cell-surface glycome structure and function. <i>Journal of Biological Chemistry</i> , 2020 , 295, 1225-1239	5.4	8
136	Proteomics-based screening of the endothelial heparan sulfate interactome reveals that C-type lectin 14a (CLEC14A) is a heparin-binding protein. <i>Journal of Biological Chemistry</i> , 2020 , 295, 2804-2821	5.4	9
135	Virus-Receptor Interactions of Glycosylated SARS-CoV-2 Spike and Human ACE2 Receptor 2020 ,		9

134	Human UDP-galactose 4Epimerase (GALE) is required for cell-surface glycome structure and function. <i>Journal of Biological Chemistry</i> , 2020 , 295, 1225-1239	5.4	4
133	Virus-Receptor Interactions of Glycosylated SARS-CoV-2 Spike and Human ACE2 Receptor. <i>Cell Host and Microbe</i> , 2020 , 28, 586-601.e6	23.4	192
132	Getting more for less: new software solutions for glycoproteomics. <i>Nature Methods</i> , 2020 , 17, 1081-1082	1.6	2
131	Glycosylation Is Vital for Industrial Performance of Hyperactive Cellulases. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4792-4800	8.3	12
130	Correlations Between LC-MS/MS-Detected Glycomics and NMR-Detected Metabolomics in Development. <i>Frontiers in Molecular Biosciences</i> , 2019 , 6, 49	5.6	5
129	Immunization expands B cells specific to HIV-1 V3 glycan in mice and macaques. <i>Nature</i> , 2019 , 570, 468-474	30.4	95
128	Selective inhibition of N-linked glycosylation impairs receptor tyrosine kinase processing. <i>DMM Disease Models and Mechanisms</i> , 2019 , 12,	4.1	10
127	Trypanosoma cruzi 13C-labeled O-Glycan standards for mass spectrometry. <i>Glycobiology</i> , 2019 , 29, 280-284	3.8	5
126	CRISPR/Cas9 and glycomics tools for glycobiology. <i>Journal of Biological Chemistry</i> , 2019 , 294, 1104-1125	5.4	35
125	Identification and characterization of the Streptococcus pneumoniae type 3 capsule-specific glycoside hydrolase of Paenibacillus species 32352. <i>Glycobiology</i> , 2018 , 28, 90-99	5.8	10
124	Glycan Masking Focuses Immune Responses to the HIV-1 CD4-Binding Site and Enhances Elicitation of VRC01-Class Precursor Antibodies. <i>Immunity</i> , 2018 , 49, 301-311.e5	32.3	70
123	Defective mucin-type glycosylation on Elystroglycan in COG-deficient cells increases its susceptibility to bacterial proteases. <i>Journal of Biological Chemistry</i> , 2018 , 293, 14534-14544	5.4	3
122	Exploiting glycan topography for computational design of Env glycoprotein antigenicity. <i>PLoS Computational Biology</i> , 2018 , 14, e1006093	5	14
121	Genotype-Phenotype Correlations for Protein O-Linked Mannose NAcetylglucosaminyltransferase 1 in Congenital Muscular Dystrophy. <i>FASEB Journal</i> , 2018 , 32, 544.8	0.9	
120	Biochemical Characterization of Missense Mutations in O-GlcNAc Transferase Found in Patients With X-Linked Intellectual Disability. <i>FASEB Journal</i> , 2018 , 32, 544.6	0.9	
119	-GlcNAc transferase missense mutations linked to X-linked intellectual disability deregulate genes involved in cell fate determination and signaling. <i>Journal of Biological Chemistry</i> , 2018 , 293, 10810-10824	5.4	32
118	Structural Analysis of the Glycosylated Intact HIV-1 gp120-b12 Antibody Complex Using Hydroxyl Radical Protein Footprinting. <i>Biochemistry</i> , 2017 , 56, 957-970	3.2	21
117	Quantification of the Impact of the HIV-1-Glycan Shield on Antibody Elicitation. <i>Cell Reports</i> , 2017 , 19, 719-732	10.6	123

116	O-GlcNAc transferase regulates transcriptional activity of human Oct4. <i>Glycobiology</i> , 2017 , 27, 927-937	5.8	23
115	Identification and characterization of a missense mutation in the β -linked N-acetylglucosamine (β -GlcNAc) transferase gene that segregates with X-linked intellectual disability. <i>Journal of Biological Chemistry</i> , 2017 , 292, 8948-8963	5.4	58
114	Rapid screening of sugar-nucleotide donor specificities of putative glycosyltransferases. <i>Glycobiology</i> , 2017 , 27, 206-212	5.8	25
113	Protein N-Linked Mannose β 1,4--Acetylglucosaminyl-transferase 2 (POMGNT2) Is a Gatekeeper Enzyme for Functional Glycosylation of β Dystroglycan. <i>Journal of Biological Chemistry</i> , 2017 , 292, 2101-2109	5.4	21
112	Cell-Surface Glyco-Engineering by Exogenous Enzymatic Transfer Using a Bifunctional CMP-Neu5Ac Derivative. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13342-13348	16.4	26
111	Characterization of a cytoplasmic glucosyltransferase that extends the core trisaccharide of the Skp1 E3 ubiquitin ligase subunit. <i>Journal of Biological Chemistry</i> , 2017 , 292, 18644-18659	5.4	14
110	Altered Met receptor phosphorylation and LRP1-mediated uptake in cells lacking carbohydrate-dependent lysosomal targeting. <i>Journal of Biological Chemistry</i> , 2017 , 292, 15094-15104	5.4	
109	Distinct roles of N- and O-glycans in cellulase activity and stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 13667-13672	11.5	52
108	Whoa man! Unexpected protein N-mannosylation pathways in mammals. <i>Journal of Biological Chemistry</i> , 2017 , 292, 11599-11600	5.4	2
107	Recent advancements in understanding mammalian O-mannosylation. <i>Glycobiology</i> , 2017 , 27, 806-819	5.8	61
106	Secretomic Insight into Glucose Metabolism of <i>Aspergillus brasiliensis</i> in Solid-State Fermentation. <i>Journal of Proteome Research</i> , 2016 , 15, 3856-3871	5.6	13
105	One-Step Selective Exoenzymatic Labeling (SEEL) Strategy for the Biotinylation and Identification of Glycoproteins of Living Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11575-11582	16.4	51
104	Selective Exo-Enzymatic Labeling Detects Increased Cell Surface Sialoglycoprotein Expression upon Megakaryocytic Differentiation. <i>Journal of Biological Chemistry</i> , 2016 , 291, 3982-9	5.4	31
103	The E3 Ubiquitin Ligase Adaptor Protein Skp1 Is Glycosylated by an Evolutionarily Conserved Pathway That Regulates Protist Growth and Development. <i>Journal of Biological Chemistry</i> , 2016 , 291, 4268-80	5.4	24
102	O-Linked N-acetylglucosamine (O-GlcNAc) Acts as a Glucose Sensor to Epigenetically Regulate the Insulin Gene in Pancreatic Beta Cells. <i>Journal of Biological Chemistry</i> , 2016 , 291, 2107-18	5.4	26
101	The functional O-mannose glycan on β dystroglycan contains a phospho-ribitol primed for matriglycan addition. <i>ELife</i> , 2016 , 5,	8.9	73
100	A shunt pathway limits the CaaX processing of Hsp40 Ydj1p and regulates Ydj1p-dependent phenotypes. <i>ELife</i> , 2016 , 5,	8.9	15
99	De novo actin polymerization is required for model Hirano body formation in <i>Dictyostelium</i> . <i>Biology Open</i> , 2016 , 5, 807-18	2.2	7

98	Dissecting PUGNAc-mediated inhibition of the pro-survival action of insulin. <i>Glycobiology</i> , 2016 , 26, 1198-1208	6
97	Oligosaccharyltransferase inhibition induces senescence in RTK-driven tumor cells. <i>Nature Chemical Biology</i> , 2016 , 12, 1023-1030	11.7 64
96	The minimum information required for a glycomics experiment (MIRAGE) project: sample preparation guidelines for reliable reporting of glycomics datasets. <i>Glycobiology</i> , 2016 , 26, 907-910	5.8 44
95	Three CRISPR-Cas immune effector complexes coexist in <i>Pyrococcus furiosus</i> . <i>Rna</i> , 2015 , 21, 1147-58	5.8 33
94	The human embryonic stem cell proteome revealed by multidimensional fractionation followed by tandem mass spectrometry. <i>Proteomics</i> , 2015 , 15, 554-66	4.8 7
93	EUROCarbDB(CCRC): a EUROCarbDB node for storing glycomics standard data. <i>Bioinformatics</i> , 2015 , 31, 242-5	7.2 3
92	Hyaluronan synthase assembles chitin oligomers with -GlcNAc(1- β -UDP at the reducing end. <i>Glycobiology</i> , 2015 , 25, 632-43	5.8 19
91	Global O-GlcNAc Levels Modulate Transcription of the Adipocyte Secretome during Chronic Insulin Resistance. <i>Frontiers in Endocrinology</i> , 2014 , 5, 223	5.7 16
90	O-glycosylation regulates polarized secretion by modulating Tango1 stability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7296-301	11.5 53
89	Functional O-GlcNAc modifications: implications in molecular regulation and pathophysiology. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2014 , 49, 140-163	8.7 54
88	Monitoring protein O-linked N-acetylglucosamine status via metabolic labeling and copper-free click chemistry. <i>Analytical Biochemistry</i> , 2014 , 464, 70-2	3.1 13
87	Mammalian O-mannosylation pathway: glycan structures, enzymes, and protein substrates. <i>Biochemistry</i> , 2014 , 53, 3066-78	3.2 53
86	Quantitative secretome and glycome of primary human adipocytes during insulin resistance. <i>Clinical Proteomics</i> , 2014 , 11, 20	5 24
85	Discrimination between adenocarcinoma and normal pancreatic ductal fluid by proteomic and glycomic analysis. <i>Journal of Proteome Research</i> , 2014 , 13, 395-407	5.6 30
84	Site-specific glycan microheterogeneity of inter-alpha-trypsin inhibitor heavy chain H4. <i>Journal of Proteome Research</i> , 2014 , 13, 3314-29	5.6 30
83	MIRAGE: the minimum information required for a glycomics experiment. <i>Glycobiology</i> , 2014 , 24, 402-6	5.8 84
82	Multiple tissue-specific roles for the O-GlcNAc post-translational modification in the induction of and complications arising from type II diabetes. <i>Journal of Biological Chemistry</i> , 2014 , 289, 34466-71	5.4 70
81	Protein O-mannosylation in metazoan organisms. <i>Current Protocols in Protein Science</i> , 2014 , 75, 12.12.1-12.12.29	12.12.29

80	B4GAT1 is the priming enzyme for the LARGE-dependent functional glycosylation of α -Dystroglycan. <i>ELife</i> , 2014 , 3,	8.9	63
79	Glycogenome signatures in complex cardiometabolic disease (789.4). <i>FASEB Journal</i> , 2014 , 28, 789.4	0.9	
78	A chromosome-centric human proteome project (C-HPP) to characterize the sets of proteins encoded in chromosome 17. <i>Journal of Proteome Research</i> , 2013 , 12, 45-57	5.6	31
77	Enzymatic basis for N-glycan sialylation: structure of rat α 2,6-sialyltransferase (ST6GAL1) reveals conserved and unique features for glycan sialylation. <i>Journal of Biological Chemistry</i> , 2013 , 288, 34680-9	5.4	85
76	O-Mannosylation and human disease. <i>Cellular and Molecular Life Sciences</i> , 2013 , 70, 2849-57	10.3	44
75	Approaches for site mapping and quantification of O-linked glycopeptides. <i>Methods in Molecular Biology</i> , 2013 , 951, 229-44	1.4	3
74	Regulation of Oct1/Pou2f1 transcription activity by O-GlcNAcylation. <i>FASEB Journal</i> , 2013 , 27, 2807-17	0.9	20
73	Dissecting the molecular basis of the role of the O-mannosylation pathway in disease: α -Dystroglycan and forms of muscular dystrophy. <i>ChemBioChem</i> , 2013 , 14, 2392-402	3.8	20
72	The o-mannosylation pathway: glycosyltransferases and proteins implicated in congenital muscular dystrophy. <i>Journal of Biological Chemistry</i> , 2013 , 288, 6930-5	5.4	63
71	Proteomic identification of glycosylphosphatidylinositol anchor-dependent membrane proteins elevated in breast carcinoma. <i>Journal of Biological Chemistry</i> , 2012 , 287, 25230-40	5.4	35
70	Human UDP- α -xylose synthase and Escherichia coli ArnA conserve a conformational shunt that controls whether xylose or 4-keto-xylose is produced. <i>Biochemistry</i> , 2012 , 51, 8844-55	3.2	17
69	Structural reorganization of the interleukin-7 signaling complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 2503-8	11.5	43
68	High throughput screening for compounds that alter muscle cell glycosylation identifies new role for N-glycans in regulating sarcolemmal protein abundance and laminin binding. <i>Journal of Biological Chemistry</i> , 2012 , 287, 22759-70	5.4	13
67	Developmental expression of the neuron-specific N-acetylglucosaminyltransferase Vb (GnT-Vb/IX) and identification of its in vivo glycan products in comparison with those of its paralog, GnT-V. <i>Journal of Biological Chemistry</i> , 2012 , 287, 28526-36	5.4	34
66	Regulation of glycan structures in murine embryonic stem cells: combined transcript profiling of glycan-related genes and glycan structural analysis. <i>Journal of Biological Chemistry</i> , 2012 , 287, 37835-56	5.4	75
65	α -N-Acetylglucosamine (O-GlcNAc) is a novel regulator of mitosis-specific phosphorylations on histone H3. <i>Journal of Biological Chemistry</i> , 2012 , 287, 12195-203	5.4	88
64	Glycosylation of α -Dystroglycan: O-mannosylation influences the subsequent addition of GalNAc by UDP-GalNAc polypeptide N-acetylgalactosaminyltransferases. <i>Journal of Biological Chemistry</i> , 2012 , 287, 20967-74	5.4	14
63	Global increases in O-GlcNAc levels lead to differentiation of myoblasts. <i>FASEB Journal</i> , 2012 , 26, 607.4	0.9	

62	Mammalian O-mannosylation: unsolved questions of structure/function. <i>Current Opinion in Structural Biology</i> , 2011 , 21, 603-9	8.1	34
61	The E2F-1 associated retinoblastoma-susceptibility gene product is modified by O-GlcNAc. <i>Amino Acids</i> , 2011 , 40, 877-83	3.5	33
60	Morphological changes in diabetic kidney are associated with increased O-GlcNAcylation of cytoskeletal proteins including F-actin 4. <i>Clinical Proteomics</i> , 2011 , 8, 15	5	28
59	Synthetic, structural, and biosynthetic studies of an unusual phospho-glycopeptide derived from Dystroglycan. <i>Journal of the American Chemical Society</i> , 2011 , 133, 14418-30	16.4	37
58	Outer membrane proteome of Burkholderia pseudomallei and Burkholderia mallei from diverse growth conditions. <i>Journal of Proteome Research</i> , 2011 , 10, 2417-24	5.6	28
57	Combining high-energy C-trap dissociation and electron transfer dissociation for protein O-GlcNAc modification site assignment. <i>Journal of Proteome Research</i> , 2011 , 10, 4088-104	5.6	123
56	Myc orchestrates a regulatory network required for the establishment and maintenance of pluripotency. <i>Cell Cycle</i> , 2011 , 10, 592-7	4.7	27
55	Glycomic analyses of mouse models of congenital muscular dystrophy. <i>Journal of Biological Chemistry</i> , 2011 , 286, 21180-90	5.4	63
54	Extensive mannose phosphorylation on leukemia inhibitory factor (LIF) controls its extracellular levels by multiple mechanisms. <i>Journal of Biological Chemistry</i> , 2011 , 286, 24855-64	5.4	20
53	Ubiquitin-like small archaeal modifier proteins (SAMPs) in Haloferax volcanii. <i>Nature</i> , 2010 , 463, 54-60	50.4	147
52	Glycopeptide-specific monoclonal antibodies suggest new roles for O-GlcNAc. <i>Nature Chemical Biology</i> , 2010 , 6, 338-43	11.7	142
51	O-Glycan Complexity and Analysis 2010 , 45-57		1
50	Drosophila Dystroglycan is a target of O-mannosyltransferase activity of two protein O-mannosyltransferases, Rotated Abdomen and Twisted. <i>Glycobiology</i> , 2010 , 20, 381-94	5.8	26
49	O-mannosyl phosphorylation of alpha-dystroglycan is required for laminin binding. <i>Science</i> , 2010 , 327, 88-92	33.3	279
48	Mouse and zebrafish Hoxa3 orthologues have nonequivalent in vivo protein function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 10555-60	11.5	28
47	Site mapping and characterization of O-glycan structures on alpha-dystroglycan isolated from rabbit skeletal muscle. <i>Journal of Biological Chemistry</i> , 2010 , 285, 24882-91	5.4	82
46	Hexosamine flux, the O-GlcNAc modification, and the development of insulin resistance in adipocytes. <i>Molecular and Cellular Endocrinology</i> , 2010 , 318, 44-53	4.4	57
45	The Role of the O-GlcNAc Modification in Regulating Eukaryotic Gene Expression. <i>Current Signal Transduction Therapy</i> , 2010 , 5, 12-24	0.8	16

44	Interaction of Nectarin 4 with a fungal protein triggers a microbial surveillance and defense mechanism in nectar. <i>Phytochemistry</i> , 2010 , 71, 1963-9	4	20
43	Identification of candidate biomarkers with cancer-specific glycosylation in the tissue and serum of endometrioid ovarian cancer patients by glycoproteomic analysis. <i>Proteomics</i> , 2010 , 10, 470-81	4.8	92
42	Intracellular protein glycosylation modulates insulin mediated lifespan in C.elegans. <i>Aging</i> , 2010 , 2, 678-90	3.6	58
41	Quantitative Glycomics of Cultured Cells Using Isotopic Detection of Aminosugars with Glutamine (IDAWG). <i>Current Protocols in Chemical Biology</i> , 2010 , 2, 55-69	1.8	8
40	O-GlcNAc modifications regulate cell survival and epiboly during zebrafish development. <i>BMC Developmental Biology</i> , 2009 , 9, 28	3.1	79
39	Structure of the F-spondin domain of mindin, an integrin ligand and pattern recognition molecule. <i>EMBO Journal</i> , 2009 , 28, 286-97	13	57
38	IDAWG: Metabolic incorporation of stable isotope labels for quantitative glycomics of cultured cells. <i>Journal of Proteome Research</i> , 2009 , 8, 3816-23	5.6	102
37	Mapping glycans onto specific N-linked glycosylation sites of <i>Pyrus communis</i> PGIP redefines the interface for EPG-PGIP interactions. <i>Journal of Proteome Research</i> , 2009 , 8, 673-80	5.6	18
36	RNA-guided RNA cleavage by a CRISPR RNA-Cas protein complex. <i>Cell</i> , 2009 , 139, 945-56	56.2	770
35	Use of cancer-specific yeast-secreted in vivo biotinylated recombinant antibodies for serum biomarker discovery. <i>Journal of Translational Medicine</i> , 2008 , 6, 41	8.5	18
34	Targeted glycoproteomic identification of biomarkers for human breast carcinoma. <i>Journal of Proteome Research</i> , 2008 , 7, 1470-80	5.6	84
33	Defining the regulated secreted proteome of rodent adipocytes upon the induction of insulin resistance. <i>Journal of Proteome Research</i> , 2008 , 7, 1251-63	5.6	42
32	Chapter 15 O-GlcNAc Proteomics: Mass Spectrometric Analysis of O-GlcNAc Modifications on Proteins. <i>Comprehensive Analytical Chemistry</i> , 2008 , 52, 353-528	1.9	2
31	A potential pitfall in 18O-based N-linked glycosylation site mapping. <i>Rapid Communications in Mass Spectrometry</i> , 2007 , 21, 674-82	2.2	48
30	Direct analysis of the extracellular proteome from two strains of <i>Helicobacter pylori</i> . <i>Proteomics</i> , 2007 , 7, 2240-5	4.8	28
29	Identification of N-glycosylated proteins from the central nervous system of <i>Drosophila melanogaster</i> . <i>Glycobiology</i> , 2007 , 17, 1388-403	5.8	78
28	Elevation of the post-translational modification of proteins by O-linked N-acetylglucosamine leads to deterioration of the glucose-stimulated insulin secretion in the pancreas of diabetic Goto-Kakizaki rats. <i>Glycobiology</i> , 2007 , 17, 127-40	5.8	73
27	A CUL-2 ubiquitin ligase containing three FEM proteins degrades TRA-1 to regulate <i>C. elegans</i> sex determination. <i>Developmental Cell</i> , 2007 , 13, 127-39	10.2	107

26	Dynamic developmental elaboration of N-linked glycan complexity in the <i>Drosophila melanogaster</i> embryo. <i>Journal of Biological Chemistry</i> , 2007 , 282, 9127-42	5.4	218
25	Minor proteins and enzymes of the <i>Drosophila</i> eggshell matrix. <i>Developmental Biology</i> , 2006 , 293, 127-41	3.1	51
24	Glycan analysis of recombinant <i>Aspergillus niger</i> endo-polygalacturonase A. <i>Carbohydrate Research</i> , 2006 , 341, 2370-8	2.9	12
23	Comprehensive glycan analysis of recombinant <i>Aspergillus niger</i> endo-polygalacturonase C. <i>Analytical Biochemistry</i> , 2006 , 354, 43-53	3.1	21
22	Elevated Post-Translational Modification of Proteins by O-Linked N-Acetylglucosamine in Various Tissues of Diabetic Goto-Kakizaki Rats Accompanied by Diabetic Complications. <i>Acta Histochemica Et Cytochemica</i> , 2005 , 38, 131-142	1.9	9
21	Quantitative analysis of both protein expression and serine / threonine post-translational modifications through stable isotope labeling with dithiothreitol. <i>Proteomics</i> , 2005 , 5, 388-98	4.8	154
20	O-GlcNAc transferase is in a functional complex with protein phosphatase 1 catalytic subunits. <i>Journal of Biological Chemistry</i> , 2004 , 279, 38466-70	5.4	106
19	O-GlcNAc turns twenty: functional implications for post-translational modification of nuclear and cytosolic proteins with a sugar. <i>FEBS Letters</i> , 2003 , 546, 154-8	3.8	155
18	O-GlcNAc: a regulatory post-translational modification. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 302, 435-41	3.4	163
17	The adenosine analog tubercidin inhibits glycolysis in <i>Trypanosoma brucei</i> as revealed by an RNA interference library. <i>Journal of Biological Chemistry</i> , 2003 , 278, 46596-600	5.4	52
16	Diverse regulation of protein function by O-GlcNAc: a nuclear and cytoplasmic carbohydrate post-translational modification. <i>Current Opinion in Chemical Biology</i> , 2002 , 6, 851-7	9.7	115
15	Elevated nucleocytoplasmic glycosylation by O-GlcNAc results in insulin resistance associated with defects in Akt activation in 3T3-L1 adipocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 5313-8	11.5	389
14	Dynamic O-glycosylation of nuclear and cytosolic proteins: further characterization of the nucleocytoplasmic beta-N-acetylglucosaminidase, O-GlcNAcase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 1755-61	5.4	176
13	Mapping sites of O-GlcNAc modification using affinity tags for serine and threonine post-translational modifications. <i>Molecular and Cellular Proteomics</i> , 2002 , 1, 791-804	7.6	341
12	Characterization of a mouse monoclonal antibody specific for O-linked N-acetylglucosamine. <i>Analytical Biochemistry</i> , 2001 , 293, 169-77	3.1	243
11	Dynamic O-glycosylation of nuclear and cytosolic proteins: cloning and characterization of a neutral, cytosolic beta-N-acetylglucosaminidase from human brain. <i>Journal of Biological Chemistry</i> , 2001 , 276, 9838-45	5.4	477
10	Nucleocytoplasmic O-glycosylation: O-GlcNAc and functional proteomics. <i>Biochimie</i> , 2001 , 83, 575-81	4.6	72
9	Glycosylation of nucleocytoplasmic proteins: signal transduction and O-GlcNAc. <i>Science</i> , 2001 , 291, 2376-83	3.3	806

8	Covalent heterogeneity of the human enzyme galactose-1-phosphate uridylyltransferase. <i>Journal of Biological Chemistry</i> , 2000 , 275, 30088-91	5.4	10
7	Functional consequence of substitutions at residue 171 in human galactose-1-phosphate uridylyltransferase. <i>Journal of Biological Chemistry</i> , 2000 , 275, 22847-53	5.4	12
6	Subcellular localization of galactose-1-phosphate uridylyltransferase in the yeast <i>Saccharomyces cerevisiae</i> . <i>Molecular Genetics and Metabolism</i> , 2000 , 70, 272-80	3.7	26
5	Functional requirements of the active site position 185 in the human enzyme galactose-1-phosphate uridylyltransferase. <i>Journal of Biological Chemistry</i> , 1996 , 271, 26835-42	5.4	15
4	Heterodimer formation and activity in the human enzyme galactose-1-phosphate uridylyltransferase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 7166-71	11.5	35
3	Characterization of the N314D allele of human galactose-1-phosphate uridylyltransferase using a yeast expression system. <i>Biochemical and Molecular Medicine</i> , 1995 , 56, 121-30		28
2	Generation of an Unbiased Interactome for the Tetratricopeptide Repeat Domain of O-GlcNAc Transferase Indicates a Role for the Enzyme in Intellectual Disability		1
1	Separation and identification of permethylated glycan isomers by reversed phase nanoLC-NSI-MSn		1