

Gerald M Hart

List of Publications by Citations

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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.

347
papers

26,398
citations

94
h-index

160
g-index

370
ext. papers

28,979
ext. citations

8.2
avg, IF

7.34
L-index

#	Paper	IF	Citations
347	Cycling of O-linked beta-N-acetylglucosamine on nucleocytoplasmic proteins. <i>Nature</i> , 2007 , 446, 1017-22	50.4	1048
346	Cross talk between O-GlcNAcylation and phosphorylation: roles in signaling, transcription, and chronic disease. <i>Annual Review of Biochemistry</i> , 2011 , 80, 825-58	29.1	882
345	Glycosylation of nucleocytoplasmic proteins: signal transduction and O-GlcNAc. <i>Science</i> , 2001 , 291, 2376-83	38.3	806
344	Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015 , 25, 1323-4	5.8	585
343	The O-GlcNAc transferase gene resides on the X chromosome and is essential for embryonic stem cell viability and mouse ontogeny. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 5735-9	11.5	582
342	Dynamic glycosylation of nuclear and cytosolic proteins. Cloning and characterization of a unique O-GlcNAc transferase with multiple tetratricopeptide repeats. <i>Journal of Biological Chemistry</i> , 1997 , 272, 9308-15	5.4	568
341	O-GlcNAcylation regulates phosphorylation of tau: a mechanism involved in Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10804-9	11.5	547
340	Glycomics hits the big time. <i>Cell</i> , 2010 , 143, 672-6	56.2	484
339	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
338	Dynamic O-linked glycosylation of nuclear and cytoskeletal proteins. <i>Annual Review of Biochemistry</i> , 1997 , 66, 315-35	29.1	446
337	Dynamic O-GlcNAc modification of nucleocytoplasmic proteins in response to stress. A survival response of mammalian cells. <i>Journal of Biological Chemistry</i> , 2004 , 279, 30133-42	5.4	416
336	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
335	Diabetic hyperglycaemia activates CaMKII and arrhythmias by O-linked glycosylation. <i>Nature</i> , 2013 , 502, 372-6	50.4	382
334	A novel cell surface trans-sialidase of <i>Trypanosoma cruzi</i> generates a stage-specific epitope required for invasion of mammalian cells. <i>Cell</i> , 1991 , 65, 1117-25	56.2	377
333	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
332	Ogt-dependent X-chromosome-linked protein glycosylation is a requisite modification in somatic cell function and embryo viability. <i>Molecular and Cellular Biology</i> , 2004 , 24, 1680-90	4.8	334
331	Regulation of a cytosolic and nuclear O-GlcNAc transferase. Role of the tetratricopeptide repeats. <i>Journal of Biological Chemistry</i> , 1999 , 274, 32015-22	5.4	323

330	A novel pathway for glycan assembly: biosynthesis of the glycosyl-phosphatidylinositol anchor of the trypanosome variant surface glycoprotein. <i>Cell</i> , 1989 , 56, 793-800	56.2	320
329	O-GlcNAc a sensor of cellular state: the role of nucleocytoplasmic glycosylation in modulating cellular function in response to nutrition and stress. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2004 , 1673, 13-28	4	319
328	O-GlcNAc signalling: implications for cancer cell biology. <i>Nature Reviews Cancer</i> , 2011 , 11, 678-84	31.3	311
327	O-linked beta-N-acetylglucosamine (O-GlcNAc): Extensive crosstalk with phosphorylation to regulate signaling and transcription in response to nutrients and stress. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2010 , 1800, 96-106	4	310
326	c-Myc is glycosylated at threonine 58, a known phosphorylation site and a mutational hot spot in lymphomas. <i>Journal of Biological Chemistry</i> , 1995 , 270, 18961-5	5.4	303
325	Cell signaling, the essential role of O-GlcNAc!. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2006 , 1761, 599-617	5	295
324	O-Glycosylation of nuclear and cytosolic proteins. Dynamic interplay between O-GlcNAc and O-phosphate. <i>Journal of Biological Chemistry</i> , 2000 , 275, 29179-82	5.4	289
323	Beta-N-acetylglucosamine (O-GlcNAc) is part of the histone code. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19915-20	11.5	275
322	O-GlcNAc signaling: a metabolic link between diabetes and cancer?. <i>Trends in Biochemical Sciences</i> , 2010 , 35, 547-55	10.3	262
321	The microtubule-associated protein tau is extensively modified with O-linked N-acetylglucosamine. <i>Journal of Biological Chemistry</i> , 1996 , 271, 28741-4	5.4	253
320	Cross-talk between GlcNAcylation and phosphorylation: site-specific phosphorylation dynamics in response to globally elevated O-GlcNAc. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 13793-8	11.5	252
319	The emerging significance of O-GlcNAc in cellular regulation. <i>Chemical Reviews</i> , 2002 , 102, 431-8	68.1	249
318	Nutrient regulation of signaling, transcription, and cell physiology by O-GlcNAcylation. <i>Cell Metabolism</i> , 2014 , 20, 208-13	24.6	245
317	Characterization of a mouse monoclonal antibody specific for O-linked N-acetylglucosamine. <i>Analytical Biochemistry</i> , 2001 , 293, 169-77	3.1	243
316	The intersections between O-GlcNAcylation and phosphorylation: implications for multiple signaling pathways. <i>Journal of Cell Science</i> , 2010 , 123, 13-22	5.3	237
315	Tandem mass spectrometry identifies many mouse brain O-GlcNAcylated proteins including EGF domain-specific O-GlcNAc transferase targets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 7280-5	11.5	234
314	Extensive crosstalk between O-GlcNAcylation and phosphorylation regulates cytokinesis. <i>Science Signaling</i> , 2010 , 3, ra2	8.8	231
313	Reciprocity between O-GlcNAc and O-phosphate on the carboxyl terminal domain of RNA polymerase II. <i>Biochemistry</i> , 2001 , 40, 7845-52	3.2	228

312	O-GlcNAc regulates FoxO activation in response to glucose. <i>Journal of Biological Chemistry</i> , 2008 , 283, 16283-92	5.4	224
311	Perturbations in O-linked beta-N-acetylglucosamine protein modification cause severe defects in mitotic progression and cytokinesis. <i>Journal of Biological Chemistry</i> , 2005 , 280, 32944-56	5.4	218
310	Fatty acid remodeling: a novel reaction sequence in the biosynthesis of trypanosome glycosyl phosphatidylinositol membrane anchors. <i>Cell</i> , 1990 , 62, 73-80	56.2	217
309	Enrichment and site mapping of O-linked N-acetylglucosamine by a combination of chemical/enzymatic tagging, photochemical cleavage, and electron transfer dissociation mass spectrometry. <i>Molecular and Cellular Proteomics</i> , 2010 , 9, 153-60	7.6	199
308	Cross-talk between GlcNAcylation and phosphorylation: roles in insulin resistance and glucose toxicity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 295, E17-28	6	195
307	O-GlcNAc modification in diabetes and Alzheimer's disease. <i>Molecular BioSystems</i> , 2007 , 3, 766-72		195
306	O-GlcNAc profiling: from proteins to proteomes. <i>Clinical Proteomics</i> , 2014 , 11, 8	5	185
305	The ubiquitin carboxyl hydrolase BAP1 forms a ternary complex with YY1 and HCF-1 and is a critical regulator of gene expression. <i>Molecular and Cellular Biology</i> , 2010 , 30, 5071-85	4.8	185
304	Cardioprotection by N-acetylglucosamine linkage to cellular proteins. <i>Circulation</i> , 2008 , 117, 1172-82	16.7	179
303	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
302	Selective detection and site-analysis of O-GlcNAc-modified glycopeptides by beta-elimination and tandem electrospray mass spectrometry. <i>Analytical Biochemistry</i> , 1996 , 234, 38-49	3.1	175
301	Glycosylation of nuclear and cytoplasmic proteins is ubiquitous and dynamic. <i>Biochemical Society Transactions</i> , 1992 , 20, 264-9	5.1	170
300	AMP-activated protein kinase and p38 MAPK activate O-GlcNAcylation of neuronal proteins during glucose deprivation. <i>Journal of Biological Chemistry</i> , 2008 , 283, 13009-20	5.4	164
299	O-GlcNAc: a regulatory post-translational modification. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 302, 435-41	3.4	163
298	Dynamic interplay between O-linked N-acetylglucosaminylation and glycogen synthase kinase-3-dependent phosphorylation. <i>Molecular and Cellular Proteomics</i> , 2007 , 6, 1365-79	7.6	162
297	Protein O-GlcNAcylation in diabetes and diabetic complications. <i>Expert Review of Proteomics</i> , 2013 , 10, 365-80	4.2	157
296	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
295	Dynamic interplay between O-glycosylation and O-phosphorylation of nucleocytoplasmic proteins: alternative glycosylation/phosphorylation of THR-58, a known mutational hot spot of c-Myc in lymphomas, is regulated by mitogens. <i>Journal of Biological Chemistry</i> , 2002 , 277, 19229-35	5.4	155

294	Dynamic O-GlcNAcylation of the small heat shock protein alpha B-crystallin. <i>Biochemistry</i> , 1996 , 35, 3578-86	3.8	155
293	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
292	Nutrient regulation of signaling and transcription. <i>Journal of Biological Chemistry</i> , 2019 , 294, 2211-2231	5.4	153
291	Alternative O-glycosylation/O-phosphorylation of the murine estrogen receptor beta. <i>Biochemistry</i> , 2000 , 39, 11609-20	3.2	150
290	Updates to the Symbol Nomenclature for Glycans guidelines. <i>Glycobiology</i> , 2019 , 29, 620-624	5.8	148
289	Cytosolic O-glycosylation is abundant in nerve terminals. <i>Journal of Neurochemistry</i> , 2001 , 79, 1080-9	6	148
288	Symbol nomenclature for glycan representation. <i>Proteomics</i> , 2009 , 9, 5398-9	4.8	142
287	Roles of the tetratricopeptide repeat domain in O-GlcNAc transferase targeting and protein substrate specificity. <i>Journal of Biological Chemistry</i> , 2003 , 278, 24608-16	5.4	140
286	Human Proteinpedia enables sharing of human protein data. <i>Nature Biotechnology</i> , 2008 , 26, 164-7	44.5	138
285	O-GlcNAc cycling: how a single sugar post-translational modification is changing the way we think about signaling networks. <i>Journal of Cellular Biochemistry</i> , 2006 , 97, 71-83	4.7	138
284	A PGC-1alpha-O-GlcNAc transferase complex regulates FoxO transcription factor activity in response to glucose. <i>Journal of Biological Chemistry</i> , 2009 , 284, 5148-57	5.4	137
283	Alternative O-glycosylation/O-phosphorylation of serine-16 in murine estrogen receptor beta: post-translational regulation of turnover and transactivation activity. <i>Journal of Biological Chemistry</i> , 2001 , 276, 10570-5	5.4	137
282	2000 ,		134
281	Glycosylation of chromosomal proteins: localization of O-linked N-acetylglucosamine in Drosophila chromatin. <i>Cell</i> , 1989 , 57, 243-51	56.2	131
280	The coactivator of transcription CREB-binding protein interacts preferentially with the glycosylated form of Stat5. <i>Journal of Biological Chemistry</i> , 2004 , 279, 3563-72	5.4	130
279	Site-specific interplay between O-GlcNAcylation and phosphorylation in cellular regulation. <i>FEBS Letters</i> , 2010 , 584, 2526-38	3.8	129
278	A mitotic GlcNAcylation/phosphorylation signaling complex alters the posttranslational state of the cytoskeletal protein vimentin. <i>Molecular Biology of the Cell</i> , 2008 , 19, 4130-40	3.5	129
277	The transcription factor PDX-1 is post-translationally modified by O-linked N-acetylglucosamine and this modification is correlated with its DNA binding activity and insulin secretion in min6 beta-cells. <i>Archives of Biochemistry and Biophysics</i> , 2003 , 415, 155-63	4.1	129

276	Diabetes-associated dysregulation of O-GlcNAcylation in rat cardiac mitochondria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6050-5	11.5	126
275	Cross-talk between two essential nutrient-sensitive enzymes: O-GlcNAc transferase (OGT) and AMP-activated protein kinase (AMPK). <i>Journal of Biological Chemistry</i> , 2014 , 289, 10592-10606	5.4	124
274	O-GlcNAcylation of key nuclear and cytoskeletal proteins: reciprocity with O-phosphorylation and putative roles in protein multimerization. <i>Glycobiology</i> , 1996 , 6, 711-6	5.8	123
273	Regulation of the O-linked beta-N-acetylglucosamine transferase by insulin signaling. <i>Journal of Biological Chemistry</i> , 2008 , 283, 21411-7	5.4	121
272	O-linked beta-N-acetylglucosaminyltransferase substrate specificity is regulated by myosin phosphatase targeting and other interacting proteins. <i>Journal of Biological Chemistry</i> , 2008 , 283, 33935-41	5.4	120
271	Regulation of CK2 by phosphorylation and O-GlcNAcylation revealed by semisynthesis. <i>Nature Chemical Biology</i> , 2012 , 8, 262-9	11.7	119
270	Detection of O-linked N-acetylglucosamine (O-GlcNAc) on cytoplasmic and nuclear proteins. <i>Methods in Enzymology</i> , 1994 , 230, 443-60	1.7	118
269	Evidence of the involvement of O-GlcNAc-modified human RNA polymerase II CTD in transcription in vitro and in vivo. <i>Journal of Biological Chemistry</i> , 2012 , 287, 23549-61	5.4	117
268	Dynamic interplay between O-GlcNAc and O-phosphate: the sweet side of protein regulation. <i>Current Opinion in Structural Biology</i> , 2003 , 13, 631-6	8.1	117
267	Identification and cloning of a novel family of coiled-coil domain proteins that interact with O-GlcNAc transferase. <i>Journal of Biological Chemistry</i> , 2003 , 278, 5399-409	5.4	117
266	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
265	Regulation of insulin receptor substrate 1 (IRS-1)/AKT kinase-mediated insulin signaling by O-Linked beta-N-acetylglucosamine in 3T3-L1 adipocytes. <i>Journal of Biological Chemistry</i> , 2010 , 285, 5204-11	5.4	110
264	Site-specific GlcNAcylation of human erythrocyte proteins: potential biomarker(s) for diabetes. <i>Diabetes</i> , 2009 , 58, 309-17	0.9	108
263	Proteomic approaches to analyze the dynamic relationships between nucleocytoplasmic protein glycosylation and phosphorylation. <i>Circulation Research</i> , 2003 , 93, 1047-58	15.7	107
262	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
261	Regulation of calcium/calmodulin-dependent kinase IV by O-GlcNAc modification. <i>Journal of Biological Chemistry</i> , 2009 , 284, 21327-37	5.4	103
260	O-linked GlcNAc modification of cardiac myofilament proteins: a novel regulator of myocardial contractile function. <i>Circulation Research</i> , 2008 , 103, 1354-8	15.7	103
259	O-Linked N-Acetylglucosamine: The Yin-Yang of Ser/Thr Phosphorylation?. <i>Advances in Experimental Medicine and Biology</i> , 1995 , 115-123	3.6	103

258	Aberrant O-GlcNAcylation characterizes chronic lymphocytic leukemia. <i>Leukemia</i> , 2010 , 24, 1588-98	10.7	98
257	O-GlcNAc transferase regulates mitotic chromatin dynamics. <i>Journal of Biological Chemistry</i> , 2010 , 285, 34460-8	5.4	96
256	Dynamic interplay between O-glycosylation and O-phosphorylation of nucleocytoplasmic proteins: a new paradigm for metabolic control of signal transduction and transcription. <i>Progress in Molecular Biology and Translational Science</i> , 2003 , 73, 107-36		96
255	Nuclear and cytoplasmic glycosylation: novel saccharide linkages in unexpected places. <i>Trends in Biochemical Sciences</i> , 1988 , 13, 380-4	10.3	96
254	The nutrient sensor OGT in PVN neurons regulates feeding. <i>Science</i> , 2016 , 351, 1293-6	33.3	87
253	Roles of O-GlcNAc in chronic diseases of aging. <i>Molecular Aspects of Medicine</i> , 2016 , 51, 1-15	16.7	86
252	Glycosylation sites flank phosphorylation sites on synapsin I: O-linked N-acetylglucosamine residues are localized within domains mediating synapsin I interactions. <i>Journal of Neurochemistry</i> , 1999 , 73, 418-28	6	85
251	Cytoplasmic O-GlcNAc modification of the head domain and the KSP repeat motif of the neurofilament protein neurofilament-H. <i>Journal of Biological Chemistry</i> , 1996 , 271, 20845-52	5.4	85
250	Quantitation of picomole levels of N-acetyl- and N-glycolylneuraminic acids by a HPLC-adaptation of the thiobarbituric acid assay. <i>Analytical Biochemistry</i> , 1986 , 157, 179-85	3.1	85
249	The dynamic stress-induced "O-GlcNAc-ome" highlights functions for O-GlcNAc in regulating DNA damage/repair and other cellular pathways. <i>Amino Acids</i> , 2011 , 40, 793-808	3.5	84
248	O-GlcNAc cycling enzymes associate with the translational machinery and modify core ribosomal proteins. <i>Molecular Biology of the Cell</i> , 2010 , 21, 1922-36	3.5	83
247	O-GlcNAc modification: a nutritional sensor that modulates proteasome function. <i>Trends in Cell Biology</i> , 2004 , 14, 218-21	18.3	83
246	Posttranslational, reversible O-glycosylation is stimulated by high glucose and mediates plasminogen activator inhibitor-1 gene expression and Sp1 transcriptional activity in glomerular mesangial cells. <i>Endocrinology</i> , 2006 , 147, 222-31	4.8	80
245	dbOGAP - an integrated bioinformatics resource for protein O-GlcNAcylation. <i>BMC Bioinformatics</i> , 2011 , 12, 91	3.6	79
244	Characterization of beta-N-acetylglucosaminidase cleavage by caspase-3 during apoptosis. <i>Journal of Biological Chemistry</i> , 2008 , 283, 23557-66	5.4	79
243	Three Decades of Research on O-GlcNAcylation - A Major Nutrient Sensor That Regulates Signaling, Transcription and Cellular Metabolism. <i>Frontiers in Endocrinology</i> , 2014 , 5, 183	5.7	78
242	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
241	Localization of the O-GlcNAc transferase and O-GlcNAc-modified proteins in rat cerebellar cortex. <i>Brain Research</i> , 2003 , 966, 194-205	3.7	73

- 240 GlyTouCan 1.0--The international glycan structure repository. *Nucleic Acids Research*, **2016**, 44, D1237-4220.1 72
- 239 The dynamic metabolism of hyaluronan regulates the cytosolic concentration of UDP-GlcNAc. *Matrix Biology*, **2014**, 35, 14-7 11.4 72
- 238 Nucleocytoplasmic O-glycosylation: O-GlcNAc and functional proteomics. *Biochimie*, **2001**, 83, 575-81 4.6 72
- 237 Modification of RelA by O-linked N-acetylglucosamine links glucose metabolism to NF- κ B acetylation and transcription. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 16888-93 11.5 71
- 236 Removal of Abnormal Myofilament O-GlcNAcylation Restores Ca²⁺ Sensitivity in Diabetic Cardiac Muscle. *Diabetes*, **2015**, 64, 3573-87 0.9 68
- 235 Dynamic nuclear and cytoplasmic glycosylation: enzymes of O-GlcNAc cycling. *Biochemistry*, **2003**, 42, 2493-9 3.2 68
- 234 New insights: A role for O-GlcNAcylation in diabetic complications. *Critical Reviews in Biochemistry and Molecular Biology*, **2016**, 51, 150-61 8.7 65
- 233 A subpopulation of estrogen receptors are modified by O-linked N-acetylglucosamine. *Journal of Biological Chemistry*, **1997**, 272, 2421-8 5.4 63
- 232 O-GlcNAcylation of kinases. *Biochemical and Biophysical Research Communications*, **2012**, 422, 224-8 3.4 61
- 231 Hyperglycemia and the O-GlcNAc transferase in rat aortic smooth muscle cells: elevated expression and altered patterns of O-GlcNAcylation. *Archives of Biochemistry and Biophysics*, **2001**, 389, 166-75 4.1 60
- 230 O-GlcNAcomic Profiling Identifies Widespread O-Linked N-Acetylglucosamine Modification (O-GlcNAcylation) in Oxidative Phosphorylation System Regulating Cardiac Mitochondrial Function. *Journal of Biological Chemistry*, **2015**, 290, 29141-53 5.4 58
- 229 O-linked N-acetylglucosamine and cancer: messages from the glycosylation of c-Myc. *Advances in Experimental Medicine and Biology*, **2001**, 491, 413-8 3.6 58
- 228 O-linked N-acetylglucosamine modification on CCAAT enhancer-binding protein beta: role during adipocyte differentiation. *Journal of Biological Chemistry*, **2009**, 284, 19248-54 5.4 57
- 227 Localization of the O-linked N-acetylglucosamine transferase in rat pancreas. *Diabetes*, **1999**, 48, 2407-13.9 57
- 226 Heparan sulfate biosynthesis by embryonic tissues and primary fibroblast populations. *Developmental Biology*, **1975**, 44, 253-69 3.1 57
- 225 Nuclear and cytoplasmic glycosylation. *International Review of Cytology*, **1998**, 181, 43-74 56
- 224 Streptozotocin-induced beta-cell death is independent of its inhibition of O-GlcNAcase in pancreatic Min6 cells. *Archives of Biochemistry and Biophysics*, **2000**, 383, 296-302 4.1 55
- 223 Cellular content of UDP-N-acetylhexosamines controls hyaluronan synthase 2 expression and correlates with O-linked N-acetylglucosamine modification of transcription factors YY1 and SP1. *Journal of Biological Chemistry*, **2011**, 286, 33632-40 5.4 53

222	Comparative Proteomics Reveals Dysregulated Mitochondrial O-GlcNAcylation in Diabetic Hearts. <i>Journal of Proteome Research</i> , 2016 , 15, 2254-64	5.6	52
221	Increased expression of beta-N-acetylglucosaminidase in erythrocytes from individuals with pre-diabetes and diabetes. <i>Diabetes</i> , 2010 , 59, 1845-50	0.9	50
220	Chemical approaches to study O-GlcNAcylation. <i>Chemical Society Reviews</i> , 2013 , 42, 4345-57	58.5	49
219	A glycolipid from <i>Trypanosoma brucei</i> related to the variant surface glycoprotein membrane anchor. <i>Molecular and Biochemical Parasitology</i> , 1989 , 36, 263-70	1.9	48
218	Increased O-GlcNAc transferase in pancreas of rats with streptozotocin-induced diabetes. <i>Diabetologia</i> , 2000 , 43, 1239-47	10.3	46
217	Biosynthesis of glycosaminoglycans by the separated tissues of the embryonic chick cornea. <i>Developmental Biology</i> , 1978 , 62, 78-98	3.1	46
216	The role of O-GlcNAc signaling in the pathogenesis of diabetic retinopathy. <i>Proteomics - Clinical Applications</i> , 2014 , 8, 218-31	3.1	42
215	O-GlcNAc modification of nucleocytoplasmic proteins and diabetes. <i>Medical Molecular Morphology</i> , 2005 , 38, 84-91	2.3	42
214	Nutrient regulation of gene expression by O-GlcNAcylation of chromatin. <i>Current Opinion in Chemical Biology</i> , 2016 , 33, 88-94	9.7	41
213	Glycosylation of the murine estrogen receptor-alpha. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2000 , 75, 147-58	5.1	41
212	O-GlcNAc transferase regulates excitatory synapse maturity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 1684-1689	11.5	40
211	Minireview series on the thirtieth anniversary of research on O-GlcNAcylation of nuclear and cytoplasmic proteins: Nutrient regulation of cellular metabolism and physiology by O-GlcNAcylation. <i>Journal of Biological Chemistry</i> , 2014 , 289, 34422-3	5.4	37
210	Detection and analysis of proteins modified by O-linked N-acetylglucosamine. <i>Current Protocols in Protein Science</i> , 2011 , Chapter 12, Unit12.8	3.1	37
209	Biosynthesis of glycosaminoglycans by thymic lymphocytes. Effects of mitogenic activation. <i>Biochemistry</i> , 1982 , 21, 6088-96	3.2	36
208	Detection and analysis of proteins modified by O-linked N-acetylglucosamine. <i>Current Protocols in Molecular Biology</i> , 2011 , Chapter 17, Unit 17.6	2.9	34
207	Identification of O-GlcNAc sites on proteins. <i>Methods in Enzymology</i> , 2006 , 415, 113-33	1.7	34
206	Topology of O-linked N-acetylglucosamine in murine lymphocytes. <i>Archives of Biochemistry and Biophysics</i> , 1991 , 290, 543-8	4.1	34
205	The E2F-1 associated retinoblastoma-susceptibility gene product is modified by O-GlcNAc. <i>Amino Acids</i> , 2011 , 40, 877-83	3.5	33

204	Trichloroacetimidates5-59		33
203	Novel forms of protein glycosylation. <i>Current Opinion in Structural Biology</i> , 1994 , 4, 692-696	8.1	32
202	O-GlcNAcomics--Revealing roles of O-GlcNAcylation in disease mechanisms and development of potential diagnostics. <i>Proteomics - Clinical Applications</i> , 2013 , 7, 597-606	3.1	31
201	Glycosyltransferase probes. <i>Methods in Enzymology</i> , 1989 , 179, 82-95	1.7	31
200	Extracellular collagenase, proteoglycanase and products of their activity, released in organ culture by intact dermal inflammatory lesions produced by sulfur mustard. <i>Journal of Investigative Dermatology</i> , 1990 , 95, 717-26	4.3	29
199	Training the next generation of biomedical investigators in glycosciences. <i>Journal of Clinical Investigation</i> , 2016 , 126, 405-8	15.9	29
198	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
197	Fucosyltransferases in <i>Schistosoma mansoni</i> development. <i>Glycobiology</i> , 2001 , 11, 249-59	5.8	25
196	Surfaces of murine lymphocyte subsets differ in sialylation states and antigen distribution of a major N-linked penultimate saccharide structure. <i>Cellular Immunology</i> , 1990 , 125, 337-53	4.4	24
195	Glycomic Approaches to Study GlcNAcylation: Protein Identification, Site-mapping, and Site-specific O-GlcNAc Quantitation. <i>Clinical Proteomics</i> , 2008 , 4, 5-13	5	23
194	Thioglycosides93-116		23
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