Harry Schachter

List of Publications by Citations

145 papers	6,904 citations	46 h-index	78 g-index
150 ext. papers	7,212 ext. citations	4.9 avg, IF	5.54 L-index

#	Paper	IF	Citations
145	Biosynthetic controls that determine the branching and microheterogeneity of protein-bound oligosaccharides. *Biochemistry and Cell Biology*, **1986**, 64, 163-81	3.6	509
144	Intracellular Localization of Liver Sugar Nucleotide Glycoprotein Glycosyltransferases in a Golgi-rich Fraction. *Journal of Biological Chemistry*, **1970**, 245, 1090-1100	5.4	410
143	O-mannosyl phosphorylation of alpha-dystroglycan is required for laminin binding. *Science*, **2010**, 327, 88-92	33.3	279
142	LARGE can functionally bypass alpha-dystroglycan glycosylation defects in distinct congenital muscular dystrophies. *Nature Medicine*, **2004**, 10, 696-703	50.5	215
141	A structural basis for four distinct elution profiles on concanavalin A--Sepharose affinity chromatography of glycopeptides. *Canadian Journal of Biochemistry*, **1979**, 57, 83-96		199
140	ISPD loss-of-function mutations disrupt dystroglycan O-mannosylation and cause Walker-Warburg syndrome. *Nature Genetics*, **2012**, 44, 575-80	36.3	183
139	The 'yellow brick road' to branched complex N-glycans. *Glycobiology*, **1991**, 1, 453-61	5.8	182
138	Product-identification and substrate-specificity studies of the GDP-L-fucose:2-acetamido-2-deoxy-beta-D-glucoside (FUC goes to Asn-linked GlcNAc) 6-alpha-L-fucosyltransferase in a Golgi-rich fraction from porcine liver. *Carbohydrate Research*, **1982**, 100, 365-92	2.9	177
137	Control of branching during the biosynthesis of asparagine-linked oligosaccharides. *Canadian Journal of Biochemistry and Cell Biology*, **1983**, 61, 1049-66		167
136	The control of glycoprotein synthesis: N-acetylglucosamine linkage to a mannose residue as a signal for the attachment of L-fucose to the asparagine-linked N-acetylglucosamine residue of glycopeptide from alpha1-acid glycoprotein. *Biochemical and Biophysical Research Communications*, **1976**, 72, 909-16	3.4	160
135	The joys of HexNAc. The synthesis and function of N- and O-glycan branches. *Glycoconjugate Journal*, **2000**, 17, 465-83	3	126
134	Biosynthesis of Glycoprotein by Liver. *Journal of Biological Chemistry*, **1966**, 241, 5408-5418	5.4	110
133	Mucin synthesis. UDP-GlcNAc:GalNAc-R beta 3-N-acetylglucosaminyltransferase and UDP-GlcNAc:GlcNAc beta 1-3GalNAc-R (GlcNAc to GalNAc) beta 6-N-acetylglucosaminyltransferase from pig and rat colon mucosa. *Biochemistry*, **1985**, 24, 1866-74	3.2	106
132	Control of glycoprotein synthesis. The use of oligosaccharide substrates and HPLC to study the sequential pathway for N-acetylglucosaminyltransferases I, II, III, IV, V, and VI in the biosynthesis of highly branched N-glycans by hen oviduct membranes. *Biochemistry and Cell Biology*, **1988**, 66, 1134-51	3.6	96
131	Sialic Acids. *Journal of Biological Chemistry*, **1971**, 246, 5321-5328	5.4	95
130	Mammalian Glycosyltransferases **1980**, 85-160		92
129	Isolation, characterization and inactivation of the mouse Mgat3 gene: the bisecting N-acetylglucosamine in asparagine-linked oligosaccharides appears dispensable for viability and reproduction. *Glycobiology*, **1997**, 7, 45-56	5.8	91

128	Glycosylation diseases: quo vadis?. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2009**, 1792, 925-30	6.9	87
127	A quantitative difference in the activity of blood group A-specific N-acetylgalactosaminyltransferase in serum from A 1 and A 2 human subjects. *Biochemical and Biophysical Research Communications*, **1971**, 45, 1011-8	3.4	82
126	Glycoproteins: their structure, biosynthesis and possible clinical implications. *Clinical Biochemistry*, **1984**, 17, 3-14	3.5	78
125	Golgi and secreted galactosyltransferase. *Critical Reviews in Biochemistry*, **1986**, 21, 119-51		77
124	The biosynthesis of highly branched N-glycans: studies on the sequential pathway and functional role of N-acetylglucosaminyltransferases I, II, III, IV, V and VI. *Biochimie*, **1988**, 70, 1521-33	4.6	76
123	The effect of a "bisecting" N-acetylglucosaminyl group on the binding of biantennary, complex oligosaccharides to concanavalin A, Phaseolus vulgaris erythroagglutinin (E-PHA), and Ricinus communis agglutinin (RCA-120) immobilized on agarose. *Carbohydrate Research*, **1986**, 149, 65-83	2.9	75
122	Intracellular localization of GDP-L-fucose:glycoprotein and CMP-sialic acid: apolipoprotein glycosyltransferases in rat and pork livers. *Archives of Biochemistry and Biophysics*, **1975**, 169, 269-77	4.1	75
121	Porcine sugar nucleotide: glycoprotein glycosyltransferases. I. Blood serum and liver sialyltransferase. *Canadian Journal of Biochemistry*, **1971**, 49, 829-37		73
120	Null mutations in Drosophila N-acetylglucosaminyltransferase I produce defects in locomotion and a reduced life span. *Journal of Biological Chemistry*, **2006**, 281, 12776-85	5.4	72
119	The human UDP-N-acetylglucosamine: alpha-6-D-mannoside-beta-1,2-N-acetylglucosaminyltransferase II gene (MGAT2). Cloning of genomic DNA, localization to chromosome 14q21, expression in insect cells and purification of the recombinant protein. *FEBS Journal*, **1995**, 231, 717-26		70
118	Molecular cloning and characterization of the mouse UDP-N-acetylglucosamine:alpha-3-D-mannoside beta-1,2-N-acetylglucosaminyltransferase I gene. *Genomics*, **1992**, 12, 699-704	4.3	67
117	Enzymes associated with glycosylation. *Current Opinion in Structural Biology*, **1991**, 1, 755-765	8.1	67
116	Control of glycoprotein synthesis. Bovine milk UDPgalactose:N-acetylglucosamine beta-4-galactosyltransferase catalyzes the preferential transfer of galactose to the GlcNAc beta 1,2Man alpha 1,3- branch of both bisected and nonbisected complex biantennary asparagine-linked oligosaccharides. *Biochemistry*, **1985**, 24, 1694-700	3.2	67
115	The presence of two GDP-L-fucose: glycoproteine fucosyltransferases in human serum. *Archives of Biochemistry and Biophysics*, **1973**, 156, 534-42	4.1	67
114	Walker-Warburg syndrome. *Orphanet Journal of Rare Diseases*, **2006**, 1, 29	4.2	65
113	Expression of three Caenorhabditis elegans N-acetylglucosaminyltransferase I genes during development. *Journal of Biological Chemistry*, **1999**, 274, 288-97	5.4	62
112	Mucin synthesis. Conversion of R1-beta 1-3Gal-R2 to R1-beta 1-3(GlcNAc beta 1-6)Gal-R2 and of R1-beta 1-3GalNAc-R2 to R1-beta 1-3(GlcNAc beta 1-6)GalNAc-R2 by a beta 6-N-acetylglucosaminyltransferase in pig gastric mucosa. *FEBS Journal*, **1986**, 157, 463-74		59
111	Carbohydrate-deficient glycoprotein syndrome type II. An autosomal recessive N-acetylglucosaminyltransferase II deficiency different from typical hereditary erythroblastic multinuclearity, with a positive acidified-serum lysis test (HEMPAS). *FEBS Journal*, **1995**, 230, 797-805		58

110	Mild POMGnT1 mutations underlie a novel limb-girdle muscular dystrophy variant. *Archives of Neurology*, **2008**, 65, 137-41		56
109	Cloning and expression of a novel UDP-GlcNAc:□d-mannoside □1,2-N-acetylglucosaminyltransferase homologous to UDP-GlcNAc:□B-d-mannoside □1,2-N-acetylglucosaminyltransferase I. *Biochemical Journal*, **2002**, 361, 153-162	3.8	55
108	High-performance liquid chromatography assays for N-acetylglucosaminyltransferases involved in N- and O-glycan synthesis. *Methods in Enzymology*, **1989**, 179, 351-97	1.7	55
107	Control of glycoprotein synthesis. IX. A terminal Man alpha l-3Man beta 1- sequence in the substrate is the minimum requirement for UDP-N-acetyl-D-glucosamine: alpha-D-mannoside (GlcNAc to Man alpha 1-3) beta 2-N-acetylglucosaminyltransferase I. *Canadian Journal of Biochemistry and Cell Biology*, **1984**, 62, 409-17		55
106	Pork Liver Guanosine Diphosphate-l-Fucose Glycoprotein Fucosyltransferases. *Journal of Biological Chemistry*, **1971**, 246, 5154-5161	5.4	54
105	Caenorhabditis elegans triple null mutant lacking UDP-N-acetyl-D-glucosamine:alpha-3-D-mannoside beta1,2-N-acetylglucosaminyltransferase I. *Biochemical Journal*, **2004**, 382, 995-1001	3.8	52
104	Expression of stable human O-glycan core 2 beta-1,6-N-acetylglucosaminyltransferase in Sf9 insect cells. *Biochemical Journal*, **1997**, 325 (Pt 1), 63-9	3.8	49
103	The levels of nucleotide-sugar: glycoprotein sialyl- and N-acetylglucosaminyltransferases in normal and pathological human sera. *Canadian Journal of Biochemistry*, **1972**, 50, 738-40		49
102	Enzymatic diagnostic test for Muscle-Eye-Brain type congenital muscular dystrophy using commercially available reagents. *Clinical Biochemistry*, **2003**, 36, 339-44	3.5	48
101	Molecular cloning and expression of cDNA encoding the rat UDP-N-acetylglucosamine:alpha-6-D-mannoside beta-1,2-N-acetylglucosaminyltransferase II. *Journal of Biological Chemistry*, **1995**, 270, 15211-21	5.4	47
100	The Inhibition of Rat Liver Polyribosome Breakdown in the Presence of Liver Supernatant. *Journal of Biological Chemistry*, **1966**, 241, 1835-1839	5.4	47
99	Inhibition of the sodium/potassium ATPase impairs N-glycan expression and function. *Cancer Research*, **2008**, 68, 6688-97	10.1	46
98	Protein glycosylation lessons from Caenorhabditis elegans. *Current Opinion in Structural Biology*, **2004**, 14, 607-16	8.1	46
97	Synthesis of paucimannose N-glycans by Caenorhabditis elegans requires prior actions of UDP-N-acetyl-D-glucosamine:alpha-3-D-mannoside beta1,2-N-acetylglucosaminyltransferase I, alpha3,6-mannosidase II and a specific membrane-bound beta-N-acetylglucosaminidase. *Biochemical Journal*, **2003**, 370, 53-64	3.8	45
96	Mucin synthesis. III. UDP-GlcNAc:Gal beta 1-3(GlcNAc beta 1-6)GalNAc-R (GlcNAc to Gal) beta 3-N-acetylglucosaminyltransferase, an enzyme in porcine gastric mucosa involved in the elongation of mucin-type oligosaccharides. *Canadian Journal of Biochemistry and Cell Biology*, **1983**, 61, 1322-33		45
95	Control of glycoprotein synthesis: substrate specificity of rat liver UDP-GlcNAc:Man alpha 3R beta 2-N-acetylglucosaminyltransferase I using synthetic substrate analogues. *Glycoconjugate Journal*, **1992**, 9, 180-90	3	44
94	GDP-fucose: beta-N-acetylglucosamine (Fuc to (Fuc alpha 1----6GlcNAc)-Asn-peptide)alpha 1----3-fucosyltransferase activity in honeybee (Apis mellifica) venom glands. The difucosylation of asparagine-bound N-acetylglucosamine. *FEBS Journal*, **1991**, 199, 745-51		42
93	Porcine sugar nucleotide: glycoprotein glycosyltransferases. II. Blood serum and liver galactosyltransferase. *Canadian Journal of Biochemistry*, **1971**, 49, 838-46		42

92	Cloning and expression of Drosophila melanogaster UDP-GlcNAc:alpha-3-D-mannoside beta1,2-N-acetylglucosaminyltransferase I. *Biological Chemistry*, **2001**, 382, 209-17	4.5	41
91	Cloning and expression of a novel UDP-GlcNAc:alpha-D-mannoside beta1,2-N-acetylglucosaminyltransferase homologous to UDP-GlcNAc:alpha-3-D-mannoside beta1,2-N-acetylglucosaminyltransferase I. *Biochemical Journal*, **2002**, 361, 153-62	3.8	40
90	Evidence for two CMP-N-acetylneuraminic acid: lactose sialyltransferases in rat, porcine, bovine, and human liver. *Canadian Journal of Biochemistry*, **1972**, 50, 1024-8		40
89	Paucimannose N-glycans in Caenorhabditis elegans and Drosophila melanogaster. *Carbohydrate Research*, **2009**, 344, 1391-6	2.9	39
88	A method for proteomic identification of membrane-bound proteins containing Asn-linked oligosaccharides. *Analytical Biochemistry*, **2004**, 332, 178-86	3.1	39
87	Organization of the human beta-1,2-N-acetylglucosaminyltransferase I gene (MGAT1), which controls complex and hybrid N-glycan synthesis. *Biochemical Journal*, **1997**, 321 (Pt 2), 465-74	3.8	37
86	Biosynthetic controls that determine the branching and microheterogeneity of protein-bound oligosaccharides. *Advances in Experimental Medicine and Biology*, **1986**, 205, 53-85	3.6	37
85	Mice with a homozygous deletion of the Mgat2 gene encoding UDP-N-acetylglucosamine:alpha-6-D-mannoside beta1,2-N-acetylglucosaminyltransferase II: a model for congenital disorder of glycosylation type IIa. *Biochimica Et Biophysica Acta - General Subjects*, **2002**, 1573, 301-11	4	36
84	Preferential Oxidation of the Methionine Residue near the Active Site of Chymotrypsin. *Journal of Biological Chemistry*, **1964**, 239, 813-829	5.4	36
83	Carbohydrate-deficient glycoprotein syndrome type II. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **1999**, 1455, 179-92	6.9	35
82	Insertion into Aspergillus nidulans of functional UDP-GlcNAc: alpha 3-D- mannoside beta-1,2-N-acetylglucosaminyl-transferase I, the enzyme catalysing the first committed step from oligomannose to hybrid and complex N-glycans. *Glycoconjugate Journal*, **1995**, 12, 360-70	3	34
81	Identification of the hydrophobic glycoproteins of Caenorhabditis elegans. *Glycobiology*, **2005**, 15, 952-64	3.8	33
80	Glycosyltransferases involved in elongation of N-glycosidically linked oligosaccharides of the complex or N-acetyllactosamine type. *Methods in Enzymology*, **1983**, 98, 98-134	1.7	33
79	Suppression of cancer progression by MGAT1 shRNA knockdown. *PLoS ONE*, **2012**, 7, e43721	3.7	31
78	Mgat1-dependent N-glycans are essential for the normal development of both vertebrate and invertebrate metazoans. *Seminars in Cell and Developmental Biology*, **2010**, 21, 609-15	7.5	31
77	UDP-N-acetylglucosamine:alpha-3-D-mannoside beta-1,2-N-acetylglucosaminyltransferase I and UDP-N-acetylglucosamine:alpha-6-D-mannoside beta-1,2-N-acetylglucosaminyltransferase II in Caenorhabditis elegans. *Biochimica Et Biophysica Acta - General Subjects*, **2002**, 1573, 271-9	4	30
76	Substrate specificity and inhibition of UDP-GlcNAc:GlcNAc beta 1-2Man alpha 1-6R beta 1,6-N-acetylglucosaminyltransferase V using synthetic substrate analogues. *Glycoconjugate Journal*, **1995**, 12, 371-9	3	30
75	Synthetic substrate analogues for UDP-GlcNAc: Man alpha 1-6R beta(1-2)-N-acetylglucosaminyltransferase II. Substrate specificity and inhibitors for the enzyme. *Glycoconjugate Journal*, **1994**, 11, 210-6	3	29

74	In the biosynthesis of N-glycans in connective tissue of the snail Lymnaea stagnalis of incorporation GlcNAc by beta 2GlcNAc-transferase I is an essential prerequisite for the action of beta 2GlcNAc-transferase II and beta 2Xyl-transferase. *FEBS Journal*, **1995**, 232, 272-83		29
73	Control of glycoprotein synthesis. Characterization of (1-->4)-N-acetyl-beta-D-glucosaminyltransferases acting on the alpha-D-(1-->3)- and alpha-D-(1-->6)-linked arms of N-linked oligosaccharides. *Carbohydrate Research*, **1992**, 236, 281-99	2.9	29
72	N-glycans are involved in the response of Caenorhabditis elegans to bacterial pathogens. *Methods in Enzymology*, **2006**, 417, 359-89	1.7	28
71	Synthesis of tetrasaccharide analogues of the N-glycan substrate of beta-(1-->2)-N-acetylglucosaminyltransferase II using trisaccharide precursors and recombinant beta-(1-->2)-N-acetylglucosaminyltransferase I. *Carbohydrate Research*, **1994**, 259, 93-101	2.9	27
70	The separation by liquid chromatography (under elevated pressure) of phenyl, benzyl, and O-nitrophenyl glycosides of oligosaccharides. Analysis of substrates and products for four N-acetyl-D-glucosaminyl-transferases involved in mucin synthesis. *Carbohydrate Research*, **1983**, 120, 3-16	2.9	27
69	Identification of a novel UDP-GalNAc:GlcNAc beta-R beta 1-4 N-acetylgalactosaminyltransferase from the albumen gland and connective tissue of the snail Lymnaea stagnalis. *FEBS Journal*, **1995**, 227, 175-85		26
68	Incorporation of Sialic Acid into Sialidase-Treated Apolipoprotein of Human, Very Low Density Lipoprotein by a Pork Liver Sialyltransferase. *Canadian Journal of Biochemistry*, **1974**, 52, 655-664		26
67	Use of a ribonuclease inhibitor from rat liver supernatant fraction in the preparation of polyribosome-like particles from isolated rat liver nuclei. *Journal of Molecular Biology*, **1967**, 23, 81-87	6.5	26
66	Neuronal expression of Mgat1 rescues the shortened life span of Drosophila Mgat11 null mutants and increases life span. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 9677-82	11.5	25
65	Tissue distribution of sulfolipids in the rat. Restricted location of sulfatoxygalactosylacylalkylglycerol. *Canadian Journal of Biochemistry*, **1981**, 59, 556-63		25
64	Localization of glycoprotein glycosyltransferases in the Golgi apparatus of rat and mouse testis. *Biochimica Et Biophysica Acta - General Subjects*, **1974**, 372, 304-320	4	25
63	N-acetylglucosaminyltransferase substrates prepared from glycoproteins by hydrazinolysis of the asparagine-N-acetylglucosamine linkage. Purification and structural determination of oligosaccharides with mannose andN-acetylglucosamine at the non-reducing termini. *Glycoconjugate Journal*, **1988**, 5, 419-448	3	24
62	The role of defective glycosylation in congenital muscular dystrophy. *Glycoconjugate Journal*, **2004**, 20, 291-300	3	23
61	Functional post-translational proteomics approach to study the role of N-glycans in the development of Caenorhabditis elegans. *Biochemical Society Symposia*, **2002**, 69, 1-21		22
60	Mucin synthesis. The action of pig gastric mucosal UDP-GlcNAc:Gal beta 1-3(R1)GalNAc-R2 (GlcNAc to Gal) beta 3-N-acetylglucosaminyltransferase on high molecular weight substrates. *Canadian Journal of Biochemistry and Cell Biology*, **1984**, 62, 1081-90		22
59	The Structure and Biosynthesis of Membrane Glycoproteins. *Current Topics in Membranes and Transport*, **1978**, 11, 15-105		22
58	Porcine sugar nucleotide: glycoprotein glycosyltransferases. 3. Blood serum and liver N-acetylglucosaminyltransferase. *Canadian Journal of Biochemistry*, **1971**, 49, 847-52		22
57	Carriers and patients with muscle-eye-brain disease can be rapidly diagnosed by enzymatic analysis of fibroblasts and lymphoblasts. *Neuromuscular Disorders*, **2006**, 16, 132-6	2.9	21

56	Glycoprotein Biosynthesis **1978**, 87-181		21
55	Structural and functional consequences of an N-glycosylation mutation (HEMPAS) affecting human erythrocyte membrane glycoproteins. *Biochemistry and Cell Biology*, **1998**, 76, 823-835	3.6	20
54	Synthetic substrate analogues for UDP-GlcNAc: Man alpha 1-3R beta 1-2-N-acetylglucosaminyltransferase I. Substrate specificity and inhibitors for the enzyme. *Glycoconjugate Journal*, **1995**, 12, 747-54	3	20
53	Identification of a novel UDP-Gal:GalNAc beta 1-4GlcNAc-R beta 1-3-galactosyltransferase in the connective tissue of the snail Lymnaea stagnalis. *FEBS Journal*, **1991**, 201, 459-65		20
52	The search for glycan function: fucosylation of the TGF-beta1 receptor is required for receptor activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 15721-2	11.5	19
51	THE BIOSYNTHESIS OF ANIMAL GLYCOPROTEINS **1973**, 1-149		19
50	The PCome of Caenorhabditis elegans as a prototypic model system for parasitic nematodes: identification of phosphorylcholine-substituted proteins. *Molecular and Biochemical Parasitology*, **2008**, 161, 101-11	1.9	18
49	An Alteration in the Reactivity of Chymotrypsin and Trypsin towards Hydrogen Peroxide in the Presence of Specific Substrates. *Journal of Biological Chemistry*, **1963**, 238, PC3134-PC3136	5.4	17
48	The incorporation of 14C-threonine and 14C-glucosamine into subcellular fractions and into bovine submaxillary mucin by slices of bovine submaxillary gland. *Canadian Journal of Biochemistry*, **1967**, 45, 507-22		16
47	Gene inactivation confirms the identity of enzymes involved in nematode phosphorylcholine-N-glycan synthesis. *Molecular and Biochemical Parasitology*, **2008**, 157, 88-91	1.9	15
46	The clinical relevance of glycobiology. *Journal of Clinical Investigation*, **2001**, 108, 1579-82	15.9	15
45	Complex N-glycans: the story of the "yellow brick road". *Glycoconjugate Journal*, **2014**, 31, 1-5	3	14
44	Transcriptional regulation of the human UDP-GlcNAc:alpha-6-D-mannoside beta-1-2-N-acetylglucosaminyltransferase II gene (MGAT2) which controls complex N-glycan synthesis. *Glycoconjugate Journal*, **1998**, 15, 301-8	3	12
43	Identification of a GDP-Fuc:Gal beta 1-3GalNAc-R (Fuc to Gal) alpha 1-2 fucosyltransferase and a GDP-Fuc:Gal beta 1-4GlcNAc (Fuc to GlcNAc) alpha 1-3 fucosyltransferase in connective tissue of the snail Lymnaea stagnalis. *Glycoconjugate Journal*, **1996**, 13, 107-13	3	12
42	The role of the GlcNAc(beta)1,2Man(alpha)- moiety in mammalian development. Null mutations of the genes encoding UDP-N-acetylglucosamine:alpha-3-D-mannoside beta-1,2-N-acetylglucosaminyltransferase I and UDP-N-acetylglucosamine:alpha-D-mannoside beta-1,2-N-acetylglucosaminyltransferase I.2 cause embryonic lethality and congenital muscular	4	11
41	L-Fucose metabolism in mammals. I. Port liver L-fuconate hydro-lyase. *Canadian Journal of Biochemistry*, **1972**, 50, 798-806	002	11
40	Ablation of N-acetylglucosaminyltransferases in Caenorhabditis induces expression of unusual intersected and bisected N-glycans. *Biochimica Et Biophysica Acta - General Subjects*, **2018**, 1862, 2191-2203	4	10
39	Activity of UDP-GlcNAc:GlcNAc beta 1-->6(GlcNAc beta 1-->2) Man alpha 1-->R[GlcNAc to Man] beta 1-->4N-acetylglucosaminyltransferase VI (GnT VI) from the ovaries of Oryzias latipes (Medaka fish). *Biochemical and Biophysical Research Communications*, **1997**, 230, 533-6	3.4	10

38	Isolation of null alleles of the Caenorhabditis elegans gly-12, gly-13 and gly-14 genes, all of which encode UDP-GlcNAc: alpha-3-D-mannoside beta1,2-N-acetylglucosaminyltransferase I activity. *Biochimie*, **2003**, 85, 391-401	4.6	10
37	Chapter 5 Biosynthesis 2c. Glycosyltransferases Involved in the Synthesis of N-Glycan Antennae. *New Comprehensive Biochemistry*, **1995**, 153-199		10
36	Use of synthetic oligosaccharide substrate analogs to map the active sites of N-acetylglucosaminyltransferases I and II. *Methods in Enzymology*, **2003**, 363, 459-75	1.7	9
35	Glycoconjugate abnormalities in patients with congenital dyserythropoietic anaemia type I, II and III. *British Journal of Haematology*, **2001**, 114, 907-13	4.5	9
34	Synthesis of pentasaccharide analogues of the N-glycan substrates of N-acetylglucosaminyltransferases III, IV and V using tetrasaccharide precursors and recombinant beta-(1-->2)-N-acetylglucosaminyltransferase II. *Carbohydrate Research*, **1995**, 275, 221-9	2.9	9
33	Regulation of expression of the human beta-1,2-N-acetylglucosaminyltransferase II gene (MGAT2) by Ets transcription factors. *Biochemical Journal*, **2000**, 347, 511-8	3.8	8
32	Regulation of expression of the human □1,2-N-acetylglucosaminyltransferase II gene (MGAT2) by Ets transcription factors. *Biochemical Journal*, **2000**, 347, 511-518	3.8	8
31	Chapter 16b Carbohydrate-deficient glycoprotein syndrome: Type II: an autosomal recessive disease due to mutations in the N-acetylglucosaminyltransferase II gene. *New Comprehensive Biochemistry*, **1996**, 30, 457-467		8
30	Decreased UDP-GlcNAc:Glycopeptide□2-N-Acetylglucosaminyltransferase II activity in a ricin-resistant mutant of baby hamster kidney (BHK) cells. *Glycoconjugate Journal*, **1984**, 1, 51-61	3	8
29	Branching of N- and O-Glycans: Biosynthetic Controls and Functions.. *Trends in Glycoscience and Glycotechnology*, **1992**, 4, 241-250	0.1	8
28	Identification of terminal N-acetylglucosamine residues of highly branched asparagine-linked oligosaccharides as immunoreactive domains of a chicken heterophile antigenic determinant. *Molecular Immunology*, **1987**, 24, 765-71	4.3	7
27	Stimulation of rat liver microsomal UDP-N-acetylglucosamine: glycoprotein N-acetylglucosaminyltransferase by carboxymethylcysteine-ribonuclease A. *Canadian Journal of Biochemistry*, **1973**, 51, 101-5		7
26	Structural and functional consequences of an N-glycosylation mutation (HEMPAS) affecting human erythrocyte membrane glycoproteins. *Biochemistry and Cell Biology*, **1998**, 76, 823-35	3.6	7
25	Defective glycosyltransferases are not good for your health. *Advances in Experimental Medicine and Biology*, **1998**, 435, 9-27	3.6	7
24	Life is sweet! A novel role for N-glycans in Drosophila lifespan. *Fly*, **2011**, 5, 18-24	1.3	6
23	Two closely related forms of UDP-GlcNAc: alpha6-D-mannoside beta1,2-N-acetylglucosaminyltransferase II occur in the clawed frog Xenopus laevis. *Glycoconjugate Journal*, **2002**, 19, 187-95	3	6
22	Bausteine von Oligosacchariden, CIX. Synthese von modifizierten Oligosacchariden der N-Glycoproteine zur Untersuchung der Substratspezifit□ der N-Acetylglucosaminyltransferase I. *Liebigs Annalen*, **1995**, 1995, 53-66		6
21	Biosynthesis and Catabolism of Glycoproteins. *ACS Symposium Series*, **1978**, 21-46	0.4	6

20	Glycosyltransferases Involved in the Biosynthesis of Protein-Bound Oligosaccharides of the Asparagine-N-Acetyl-D-Glucosamine and Serine(Threonine)-N-Acetyl-D-Galactosamine Types **1985**, 227-277		6
19	Molecular cloning and expression analysis of a mouse UDP-GlcNAc:Gal(beta1-4)Glc(NAc)-R beta1,3-N-acetylglucosaminyltransferase homologous to Drosophila melanogaster Brainiac and the beta1,3-galactosyltransferase family. *Glycoconjugate Journal*, **2000**, 17, 867-75	3	5
18	Chapter 5 Biosynthesis 4b. Substrate Level Controls for N-Glycan Assembly. *New Comprehensive Biochemistry*, **1995**, 29, 281-286		4
17	Bausteine von Oligosacchariden, CX. Synthese von potentiellen Inhibitoren f□ die N-Acetylglucosaminyltransferase I. *Liebigs Annalen*, **1995**, 1995, 67-76		4
16	The functions of paucimannose N-glycans in Caenorhabditis elegans. *Trends in Glycoscience and Glycotechnology*, **2009**, 21, 131-148	0.1	3
15	The directed migration of gonadal distal tip cells in Caenorhabditis elegans requires NGAT-1, a □1,4-N-acetylgalactosaminyltransferase enzyme. *PLoS ONE*, **2017**, 12, e0183049	3.7	3
14	The human UDP-N-Acetylglucosamine:□6-d-Mannoside-□1,2-N-Acetylglucosaminyltransferase II Gene (MGAT2). *FEBS Journal*, **2008**, 231, 317-328		2
13	BBA special issue on developmental glycobiology. *Biochimica Et Biophysica Acta - General Subjects*, **2002**, 1573, 199	4	2
12	Chapter 5 Biosynthesis 1. Introduction. *New Comprehensive Biochemistry*, **1995**, 123-126		2
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