

# Harry Schachter

## List of Publications by Year in descending order

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docs citations

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citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Intracellular Localization of Liver Sugar Nucleotide Glycoprotein Glycosyltransferases in a Golgi-rich Fraction. <i>Journal of Biological Chemistry</i> , 1970, 245, 1090-1100.   | 1.6  | 598       |
| 2  | Biosynthetic controls that determine the branching and microheterogeneity of protein-bound oligosaccharides. <i>Biochemistry and Cell Biology</i> , 1986, 64, 163-181.  | 0.9  | 550       |
| 3  | Biosynthetic Controls That Determine the Branching and Microheterogeneity of Protein-Bound Oligosaccharides. <i>Advances in Experimental Medicine and Biology</i> , 1986, 205, 53-85.   | 0.8  | 355       |
| 4  | $\alpha$ -Mannosyl Phosphorylation of Alpha-Dystroglycan Is Required for Laminin Binding. <i>Science</i> , 2010, 327, 88-92.  | 6.0  | 312       |
| 5  | LARGE can functionally bypass $\alpha$ -dystroglycan glycosylation defects in distinct congenital muscular dystrophies. <i>Nature Medicine</i> , 2004, 10, 696-703.   | 15.2 | 253       |
| 6  | A structural basis for four distinct elution profiles on concanavalin A-Sepharose affinity chromatography of glycopeptides. <i>Canadian Journal of Biochemistry</i> , 1979, 57, 83-96.  | 1.4  | 212       |
| 7  | ISPD loss-of-function mutations disrupt dystroglycan O-mannosylation and cause Walker-Warburg syndrome. <i>Nature Genetics</i> , 2012, 44, 575-580.   | 9.4  | 212       |
| 8  | The "yellow brick road" to branched complex N-glycans. <i>Glycobiology</i> , 1991, 1, 453-461.  | 1.3  | 201       |
| 9  | Product-identification and substrate-specificity studies of the GDP-L-fucose: 2-acetamido-2-deoxy- $\beta$ -D-glucoside (fuc $\alpha$ 1-6Man $\alpha$ 6-linked GlcNAc) 6-fucose transferase in a golgi-rich fraction from porcine liver. <i>Carbohydrate Research</i> , 1982, 100, 365-392.   | 1.1  | 193       |
| 10 | Control of branching during the biosynthesis of asparagine-linked oligosaccharides. <i>Canadian Journal of Biochemistry and Cell Biology</i> , 1983, 61, 1049-1066.   | 1.3  | 184       |
| 11 | 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 $\alpha$ -1-acid glycoprotein. <i>Biochemical and Biophysical Research Communications</i> , 1976, 72, 909-916.                 | 1.0  | 176       |
| 12 | Biosynthesis of Glycoprotein by Liver. <i>Journal of Biological Chemistry</i> , 1966, 241, 5408-5418.   | 1.6  | 163       |
| 13 | The joys of HexNAc. The synthesis and function of N- and O-glycan branches. , 2000, 17, 465-483.  |      | 145       |
| 14 | 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. <i>Biochemistry</i> , 1985, 24, 1866-1874.  | 1.2  | 118       |
| 15 | Sialic Acids. <i>Journal of Biological Chemistry</i> , 1971, 246, 5321-5328.  | 1.6  | 118       |
| 16 | Control of glycoprotein synthesis. The use of oligosaccharide substrates and HPLC to study the sequential pathway for $\alpha$ -N-acetylglucosaminyltransferases I, II, III, IV, V, and VI in the biosynthesis of highly branched $\alpha$ -N-glycans by hen oviduct membranes. <i>Biochemistry and Cell Biology</i> , 1988, 66, 1134-1151. | 0.9  | 108       |
| 17 | A quantitative difference in the activity of blood group A-specific N-acetylgalactosaminyltransferase in serum from A1 and A2 human subjects. <i>Biochemical and Biophysical Research Communications</i> , 1971, 45, 1011-1018.   | 1.0  | 103       |
| 18 | Walker-Warburg syndrome. <i>Orphanet Journal of Rare Diseases</i> , 2006, 1, 29.  | 1.2  | 100       |

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|----|---|-----|-----------|
| 19 | Isolation, characterization and inactivation of the mouse Mgat3 gene: the bisecting N-acetylglucosamine in asparagine-linked oligosaccharides appears dispensable for viability and reproduction. <i>Glycobiology</i> , 1997, 7, 45-56.   | 1.3 | 96        |
| 20 | Mammalian Glycosyltransferases. , 1980, , 85-160.   |     | 95        |
| 21 | Glycosylation diseases: Quo vadis?. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2009, 1792, 925-930.  | 1.8 | 93        |
| 22 | Golgi and Secreted Galactosyltransferas. <i>Critical Reviews in Biochemistry</i> , 1986, 21, 119-151.   | 7.5 | 92        |
| 23 | 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-12) immobilized on agarose. <i>Carbohydrate Research</i> , 1986, 149, 65-83.   | 1.1 | 91        |
| 24 | 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. <i>Biochimie</i> , 1988, 70, 1521-1533.  | 1.3 | 88        |
| 25 | Glycoproteins: their structure, biosynthesis and possible clinical implications. <i>Clinical Biochemistry</i> , 1984, 17, 3-14.   | 0.8 | 86        |
| 26 | Porcine Sugar Nucleotide: Glycoprotein Glycosyltransferases. I. Blood Serum and Liver Sialyltransferase. <i>Canadian Journal of Biochemistry</i> , 1971, 49, 829-837.   | 1.4 | 83        |
| 27 | Intracellular localization of GDP-fucose: Glycoprotein and CMP-sialic acid: Apolipoprotein glycosyltransferases in rat and pork livers. <i>Archives of Biochemistry and Biophysics</i> , 1975, 169, 269-277.  | 1.4 | 82        |
| 28 | Null Mutations in Drosophila N-Acetylglucosaminyltransferase I Produce Defects in Locomotion and a Reduced Life Span. <i>Journal of Biological Chemistry</i> , 2006, 281, 12776-12785.  | 1.6 | 80        |
| 29 | 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. <i>FEBS Journal</i> , 1995, 231, 317-328.   | 0.2 | 78        |
| 30 | The presence of two GDP-fucose:Glycoprotein fucosyltransferases in human serum. <i>Archives of Biochemistry and Biophysics</i> , 1973, 156, 534-542.  | 1.4 | 73        |
| 31 | Enzymes associated with glycosylation. <i>Current Opinion in Structural Biology</i> , 1991, 1, 755-765.   | 2.6 | 73        |
| 32 | Mild POMGnT1 Mutations Underlie a Novel Limb-Girdle Muscular Dystrophy Variant. <i>Archives of Neurology</i> , 2008, 65, 137-41.  | 4.9 | 73        |
| 33 | Control of glycoprotein synthesis. Bovine milk UDPgalactose:N-acetylglucosamine 4-beta-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. <i>Biochemistry</i> , 1985, 24, 1694-1700. | 1.2 | 72        |
| 34 | Expression of Three Caenorhabditis elegans N-Acetylglucosaminyltransferase I Genes during Development. <i>Journal of Biological Chemistry</i> , 1999, 274, 288-297.   | 1.6 | 72        |
| 35 | Pork Liver Guanosine Diphosphate-fucose Glycoprotein Fucosyltransferases. <i>Journal of Biological Chemistry</i> , 1971, 246, 5154-5161.  | 1.6 | 72        |
| 36 | Molecular cloning and characterization of the mouse UDP-N-acetylglucosamine:1-3-d-mannoside 1-2-1,2-N-acetylglucosaminyltransferase I gene. <i>Genomics</i> , 1992, 12, 699-704.  | 1.3 | 71        |

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|----|---|-----|-----------|
| 37 | 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.   | 0.2 | 70        |
| 38 | [30] High-performance liquid chromatography assays for N-acetylglucosaminyltransferases involved in N- and O-glycan synthesis. Methods in Enzymology, 1989, 179, 351-397.   | 0.4 | 67        |
| 39 | Mucin synthesis. Conversion of R1-beta1-3Gal-R2 to R1-beta-3(GlcNAc-beta1-6)Gal-R2 and of R1-beta1-3GalNAc-R2 to R1-beta1-3(GlcNAc-beta1-6)GalNAc-R2 by a beta6-N-acetylglucosaminyltransferase in pig gastric mucosa. FEBS Journal, 1986, 157, 463-474.  | 0.2 | 63        |
| 40 | Control of glycoprotein synthesis. IX. A terminal Man $\alpha$ 1-3Man $\beta$ 1- sequence in the substrate is the minimum requirement for UDP-N-acetylglucosamine:mannoside (GlcNAc to Man $\alpha$ 1-3) $\beta$ 2-N-acetylglucosaminyltransferase I. Canadian Journal of Biochemistry and Cell Biology, 1984, 62, 409-417. | 1.3 | 62        |
| 41 | The Inhibition of Rat Liver Polyribosome Breakdown in the Presence of Liver Supernatant. Journal of Biological Chemistry, 1966, 241, 1835-1839.   | 1.6 | 62        |
| 42 | Molecular Cloning and Expression of cDNA Encoding the Rat UDP-N-Acetylglucosamine:6-D-Mannoside $\beta$ 1,2-N-Acetylglucosaminyltransferase II. Journal of Biological Chemistry, 1995, 270, 15211-15221.  | 1.6 | 57        |
| 43 | Cloning and expression of a novel UDP-GlcNAc:4-d-mannoside $\beta$ 1,2-N-acetylglucosaminyltransferase homologous to UDP-GlcNAc:3-d-mannoside $\beta$ 1,2-N-acetylglucosaminyltransferase I. Biochemical Journal, 2002, 361, 153-162.   | 1.7 | 56        |
| 44 | Caenorhabditis elegans triple null mutant lacking UDP-N-acetyl-D-glucosamine:3-D-mannoside $\beta$ 1,2-N-acetylglucosaminyltransferase I. Biochemical Journal, 2004, 382, 995-1001.   | 1.7 | 55        |
| 45 | Enzymatic diagnostic test for Muscle-Eye-Brain type congenital muscular dystrophy using commercially available reagents. Clinical Biochemistry, 2003, 36, 339-344.  | 0.8 | 54        |
| 46 | Inhibition of the Sodium/Potassium ATPase Impairs N-Glycan Expression and Function. Cancer Research, 2008, 68, 6688-6697.   | 0.4 | 54        |
| 47 | The Levels of Nucleotide-Sugar: Glycoprotein Sialyl- and N-Acetyl-glucosaminyltransferases in Normal and Pathological Human Sera. Canadian Journal of Biochemistry, 1972, 50, 738-740.  | 1.4 | 53        |
| 48 | Mucin synthesis. III. UDP-GlcNAc:Gal $\beta$ 1-3(GlcNAc $\beta$ 1-6)GalNAc-R (GlcNAc to Gal) $\beta$ 23-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, 1322-1333.             | 1.3 | 50        |
| 49 | Expression of stable human O-glycan core 2 $\beta$ 1,6-N-acetylglucosaminyltransferase in Sf9 insect cells. Biochemical Journal, 1997, 325, 63-69.  | 1.7 | 50        |
| 50 | 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, 372, 53-64.                | 1.7 | 50        |
| 51 | GDP-fucose: beta-N-acetylglucosamine (Fuc to (Fuc-alpha1 6GlcNAc)-Asn-peptide) alpha1 3-fucosyltransferase activity in honeybee (Apis mellifica) venom glands. The difucosylation of asparagine-bound N-acetylglucosamine. FEBS Journal, 1991, 199, 745-751.  | 0.2 | 49        |
| 52 | Control of glycoprotein synthesis: substrate specificity of rat liver UDP-GlcNAc:Man $\beta$ 3R $\beta$ 2-N-acetylglucosaminyl-transferase I using synthetic substrate analogues. Glycoconjugate Journal, 1992, 9, 180-190.   | 1.4 | 49        |
| 53 | Protein glycosylation lessons from Caenorhabditis elegans. Current Opinion in Structural Biology, 2004, 14, 607-616.  | 2.6 | 49        |
| 54 | Preferential Oxidation of the Methionine Residue near the Active Site of Chymotrypsin. Journal of Biological Chemistry, 1964, 239, 813-829.   | 1.6 | 49        |

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|----|---|-----|-----------|
| 55 | Cloning and Expression of Drosophila melanogaster UDP-GlcNAc:β-3-D-Mannoside ? 1,2-N-Acetylglucosaminyltransferase I. Biological Chemistry, 2001, 382, 209-17.  | 1.2 | 48        |
| 56 | Suppression of Cancer Progression by MGAT1 shRNA Knockdown. PLoS ONE, 2012, 7, e43721.  | 1.1 | 47        |
| 57 | Evidence for Two CMP-N-acetylneuraminic Acid: Lactose Sialyltransferases in Rat, Porcine, Bovine, and Human Liver. Canadian Journal of Biochemistry, 1972, 50, 1024-1028.   | 1.4 | 43        |
| 58 | Cloning and expression of a novel UDP-GlcNAc:α-d-mannoside β1,2-N-acetylglucosaminyltransferase homologous to UDP-GlcNAc:α-3-d-mannoside β1,2-N-acetylglucosaminyltransferase I. Biochemical Journal, 2002, 361, 153.   | 1.7 | 43        |
| 59 | Paucimannose N-glycans in Caenorhabditis elegans and Drosophila melanogaster. Carbohydrate Research, 2009, 344, 1391-1396.  | 1.1 | 43        |
| 60 | Porcine Sugar Nucleotide: Glycoprotein Glycosyltransferases. II. Blood Serum and Liver Galactosyltransferase. Canadian Journal of Biochemistry, 1971, 49, 838-846.  | 1.4 | 42        |
| 61 | Organization of the human β1,2-N-acetylglucosaminyltransferase I gene (MGAT1), which controls complex and hybrid N-glycan synthesis. Biochemical Journal, 1997, 321, 465-474.   | 1.7 | 42        |
| 62 | A method for proteomic identification of membrane-bound proteins containing Asn-linked oligosaccharides. Analytical Biochemistry, 2004, 332, 178-186.   | 1.1 | 42        |
| 63 | Synthetic substrate analogues for UDP-GlcNAc: Manα1-6R β1(2)-N-acetylglucosaminyltransferase II. Substrate specificity and inhibitors for the enzyme. Glycoconjugate Journal, 1994, 11, 210-216.  | 1.4 | 41        |
| 64 | Carbohydrate-deficient glycoprotein syndrome type II. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1999, 1455, 179-192.  | 1.8 | 41        |
| 65 | Mice with a homozygous deletion of the Mgat2 gene encoding UDP-N-acetylglucosamine:α-6-d-mannoside β1,2-N-acetylglucosaminyltransferase II: a model for congenital disorder of glycosylation type IIa. Biochimica Et Biophysica Acta - General Subjects, 2002, 1573, 301-311. | 1.1 | 41        |
| 66 | Identification of the hydrophobic glycoproteins of Caenorhabditis elegans. Glycobiology, 2005, 15, 952-964.   | 1.3 | 40        |
| 67 | [10] Glycosyltransferases involved in elongation of N-glycosidically linked oligosaccharides of the complex or N-acetylglucosamine type. Methods in Enzymology, 1983, 98, 98-134.   | 0.4 | 39        |
| 68 | N-glycans Are Involved in the Response of Caenorhabditis elegans to Bacterial Pathogens. Methods in Enzymology, 2006, 417, 359-389.   | 0.4 | 39        |
| 69 | Insertion into Aspergillus nidulans of functional UDP-GlcNAc: β3-d-mannoside ?-1,2-N-acetylglucosaminyltransferase I, the enzyme catalysing the first committed step from oligomannose to hybrid and complex N-glycans. Glycoconjugate Journal, 1995, 12, 360-370.            | 1.4 | 37        |
| 70 | UDP-N-acetylglucosamine:α-3-d-mannoside β1,2-N-acetylglucosaminyltransferase I and UDP-N-acetylglucosamine:α-6-d-mannoside β1,2-N-acetylglucosaminyltransferase II in Caenorhabditis elegans. Biochimica Et Biophysica Acta - General Subjects, 2002, 1573, 271-279.          | 1.1 | 35        |
| 71 | Synthesis of tetrasaccharide analogues of the N-glycan substrate of β1(2)-N-acetylglucosaminyltransferase I (Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 107 Td (2)-N-acetylglucosaminyltransferase I. Carbohydrate Research, 2002, 352, 105-115.                             | 1.1 | 34        |
| 72 | Identification of a Novel UDP-GalNAc:GlcNAcβ-R beta1-4 N-Acetylgalactosaminyltransferase from the Albumen Gland and Connective Tissue of the Snail Lymnaea stagnalis. FEBS Journal, 1995, 227, 175-185.   | 0.2 | 34        |

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|----|---|-----|-----------|
| 73 | In the Biosynthesis of N-Glycans in Connective Tissue of the Snail <i>Lymnaea stagnalis</i> of Incorporation GlcNAc by beta2GlcNAc-transferase I is an essential prerequisite for the action of beta2GlcNAc-transferase II and beta2Xyl-transferase. <i>FEBS Journal</i> , 1995, 232, 272-283.                            | 0.2 | 34        |
| 74 | Substrate specificity and inhibition of UDP-GlcNAc:GlcNAc?1-2Man?1-6R ?1,6-N-acetylglucosaminyltransferase V using synthetic substrate analogues. <i>Glycoconjugate Journal</i> , 1995, 12, 371-379.  | 1.4 | 34        |
| 75 | 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. <i>Carbohydrate Research</i> , 1983, 120, 3-16.                     | 1.1 | 32        |
| 76 | Control of glycoprotein synthesis. Characterization of (1 â†’ 4)-N-acetyl-â†’-d-glucosaminyltransferases acting on the â†’-d-(1 â†’ 3)- and â†’-d-(1 â†’ 6)-linked arms of N-linked oligosaccharides. <i>Carbohydrate Research</i> , 1992, 236, 281-299.  | 1.1 | 32        |
| 77 | Mgat1-dependent N-glycans are essential for the normal development of both vertebrate and invertebrate metazoans. <i>Seminars in Cell and Developmental Biology</i> , 2010, 21, 609-615.  | 2.3 | 32        |
| 78 | Use of a ribonuclease inhibitor from rat liver supernatant fraction in the preparation of polyribosome-like particles from isolated rat liver nuclei. <i>Journal of Molecular Biology</i> , 1967, 23, 81-87.  | 2.0 | 30        |
| 79 | Tissue distribution of sulfolipids in the rat. Restricted location of sulfatogalactosylalkylglycerol. <i>Canadian Journal of Biochemistry</i> , 1981, 59, 556-563.  | 1.4 | 28        |
| 80 | THE BIOSYNTHESIS OF ANIMAL GLYCOPROTEINS. , 1973, , 1-149.  |     | 27        |
| 81 | Localization of glycoprotein glycosyltransferases in the Golgi apparatus of rat and mouse testis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1974, 372, 304-320.   | 1.1 | 27        |
| 82 | N-acetylglucosaminyltransferase substrates prepared from glycoproteins by hydrazinolysis of the asparagine-N-acetylglucosamine linkage. Purification and structural determination of oligosaccharides with mannose and N-acetylglucosamine at the non-reducing termini. <i>Glycoconjugate Journal</i> , 1988, 5, 419-448. | 1.4 | 27        |
| 83 | The role of defective glycosylation in congenital muscular dystrophy. <i>Glycoconjugate Journal</i> , 2003, 20, 291-300.  | 1.4 | 27        |
| 84 | Neuronal expression of Mgat1 rescues the shortened life span of <i>Drosophila</i> Mgat1 null mutants and increases life span. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9677-9682.  | 3.3 | 27        |
| 85 | Incorporation of Sialic Acid into Sialidase-Treated Apolipoprotein of Human, Very Low Density Lipoprotein by a Pork Liver Sialyltransferase. <i>Canadian Journal of Biochemistry</i> , 1974, 52, 655-664.   | 1.4 | 26        |
| 86 | The Structure and Biosynthesis of Membrane Glycoproteins. <i>Current Topics in Membranes and Transport</i> , 1978, 11, 15-105.  | 0.6 | 26        |
| 87 | Mucin synthesis. The action of pig gastric mucosal UDP-GlcNAc:Galâ†’2-3(R1)GalNAc-R2 (GlcNAc to Gal) â†’3-N-acetylglucosaminyltransferase on high molecular weight Substrates. <i>Canadian Journal of Biochemistry and Cell Biology</i> , 1984, 62, 1081-1090.  | 1.3 | 25        |
| 88 | Synthetic substrate analogues for UDP-GlcNAc: Man?1-3R ?1-2-N-acetylglucosaminyltransferase I. Substrate specificity and inhibitors for the enzyme. <i>Glycoconjugate Journal</i> , 1995, 12, 747-754.  | 1.4 | 25        |
| 89 | Identification of a novel UDP-Gal:GalNAcbeta1-4GlcNAc-R. beta1-3-galactosyltransferase in the connective tissue of the snail <i>Lymnaea stagnalis</i> . <i>FEBS Journal</i> , 1991, 201, 459-465.   | 0.2 | 24        |
| 90 | Functional post-translational proteomics approach to study the role of N-glycans in the development of <i>Caenorhabditis elegans</i> . <i>Biochemical Society Symposia</i> , 2002, 69, 1-21.  | 2.7 | 24        |



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|-----|--|-----|-----------|
| 91  | Glycoprotein Biosynthesis. , 1978, , 87-181.   |     | 23        |
| 92  | Porcine Sugar Nucleotide: Glycoprotein Glycosyltransferases. III. Blood Serum and Liver N-Acetylglucosaminyltransferase. Canadian Journal of Biochemistry, 1971, 49, 847-852.  | 1.4 | 22        |
| 93  | Carriers and patients with muscle-eye-brain disease can be rapidly diagnosed by enzymatic analysis of fibroblasts and lymphoblasts. Neuromuscular Disorders, 2006, 16, 132-136.  | 0.3 | 22        |
| 94  | The clinical relevance of glycobiology. Journal of Clinical Investigation, 2001, 108, 1579-1582.   | 3.9 | 22        |
| 95  | Structural and functional consequences of an N-glycosylation mutation (HEMPAS) affecting human erythrocyte membrane glycoproteins. Biochemistry and Cell Biology, 1998, 76, 823-835.   | 0.9 | 21        |
| 96  | The PCome of Caenorhabditis elegans as a prototypic model system for parasitic nematodes: Identification of phosphorylcholine-substituted proteins. Molecular and Biochemical Parasitology, 2008, 161, 101-111.  | 0.5 | 21        |
| 97  | 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.   | 1.6 | 21        |
| 98  | The search for glycan function: Fucosylation of the TGF- $\beta$ 1 receptor is required for receptor activation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15721-15722.  | 3.3 | 20        |
| 99  | Chapter 5 Biosynthesis 2c. Glycosyltransferases Involved in the Synthesis of N-Glycan Antennae. New Comprehensive Biochemistry, 1995, , 153-199.   | 0.1 | 18        |
| 100 | Complex N-glycans: the story of the "yellow brick road". Glycoconjugate Journal, 2014, 31, 1-5.  | 1.4 | 18        |
| 101 | THE INCORPORATION OF <sup>14</sup> C-THREONINE AND <sup>14</sup> C-GLUCOSAMINE INTO SUBCELLULAR FRACTIONS AND INTO BOVINE SUBMAXILLARY MUCIN BY SLICES OF BOVINE SUBMAXILLARY GLAND. Canadian Journal of Biochemistry, 1967, 45, 507-522.  | 1.4 | 17        |
| 102 | Gene inactivation confirms the identity of enzymes involved in nematode phosphorylcholine-N-glycan synthesis. Molecular and Biochemical Parasitology, 2008, 157, 88-91.  | 0.5 | 16        |
| 103 | Identification of a GDP-Fuc:Gal $\beta$ 1 $\rightarrow$ 3GalNAc-R (Fuc to Gal) $\beta$ 1 $\rightarrow$ 2 fucosyltransferase and a GDP-Fuc:Gal $\beta$ 1 $\rightarrow$ 4GlcNAc (Fuc to GlcNAc) $\beta$ 1 $\rightarrow$ 3 fucosyltransferase in connective tissue of the snail Lymnaea stagnalis. Glycoconjugate Journal, 1996, 13, 107-113.   | 1.4 | 15        |
| 104 | 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, 301-308.  | 1.4 | 15        |
| 105 | $\alpha$ -Fucose Metabolism in Mammals. I. Pork Liver $\alpha$ -Fuconate Hydro-lyase. Canadian Journal of Biochemistry, 1972, 50, 798-806.   | 1.4 | 14        |
| 106 | Molecular Basis of Glycoconjugate Disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1999, 1455, 61-62.  | 1.8 | 13        |
| 107 | Glycoconjugate abnormalities in patients with congenital dyserythropoietic anaemia type I, II and III. British Journal of Haematology, 2001, 114, 907-913.   | 1.2 | 13        |
| 108 | The role of the GlcNAc $\beta$ 1,2Man $\alpha$ moiety in mammalian development. Null mutations of the genes encoding UDP-N-acetylglucosamine:1-3-d-mannoside 1-2-N-acetylglucosaminyltransferase I and UDP-N-acetylglucosamine:1-4-d-mannoside 1-2-N-acetylglucosaminyltransferase I.2 cause embryonic lethality and congenital muscular dystrophy in mice and men, respectively. Biochimica Et Biophysica Acta - General Subjects, 2002, 1573, 292-300. | 1.1 | 13        |

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|-----|---|-----|-----------|
| 109 | Activity of UDP-GlcNAc:GlcNAc $\beta$ 1 $\rightarrow$ 6(GlcNAc $\beta$ 1 $\rightarrow$ 2) Man $\beta$ 1 $\rightarrow$ 3R[GlcNAc to Man] $\beta$ 1 $\rightarrow$ 4N-Acetylglucosaminyltransferase VI (GnT VI) from the Ovaries of <i>Oryzias latipes</i> (Medaka Fish). <i>Biochemical and Biophysical Research Communications</i> , 1997, 230, 533-536. | 1.0 | 12        |
| 110 | Regulation of expression of the human $\beta$ 1,2-N-acetylglucosaminyltransferase II gene (MGAT2) by Ets transcription factors. <i>Biochemical Journal</i> , 2000, 347, 511.  | 1.7 | 12        |
| 111 | Ablation of N-acetylglucosaminyltransferases in <i>Caenorhabditis</i> induces expression of unusual intersected and bisected N-glycans. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2191-2203.  | 1.1 | 12        |
| 112 | Synthesis of pentasaccharide analogues of the N-glycan substrates of N-acetylglucosaminyltransferases III, IV and V using tetrasaccharide precursors and recombinant $\beta$ 1-(1 $\rightarrow$ 3) Tj ETQq010 rgBT /Overlock 1  | 0.0 | 10        |
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