Inka Brockhausen

List of Publications by Year
in descending order

92	3,598	172386 29	138417 58
papers	citations	h-index	g-index

92	92	92	2555
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mucinâ€type O â€glycans in human colon and breast cancer: glycodynamics and functions. EMBO Reports, 2006, 7, 599-604.	2.0	464
2	Mechanisms Underlying Aberrant Glycosylation of MUC1 Mucin in Breast Cancer Cells. FEBS Journal, 1995, 233, 607-617.	0.2	305
3	Mucin glycoproteins in neoplasia. Glycoconjugate Journal, 1996, 13, 693-707.	1.4	260
4	Alterations of O-glycan biosynthesis in human colon cancer tissues. Glycobiology, 1994, 4, 873-884.	1.3	166
5	The Relative Activities of the C2GnT1 and ST3Gal-I Glycosyltransferases Determine O-Glycan Structure and Expression of a Tumor-associated Epitope on MUC1. Journal of Biological Chemistry, 2001, 276, 11007-11015.	1.6	165
6	O-glycan biosynthesis in human colorectal adenoma cells during progression to cancer. FEBS Journal, 1994, 222, 415-424.	0.2	124
7	Over-expression of ST3Gal-I promotes mammary tumorigenesis. Glycobiology, 2010, 20, 1241-1250.	1.3	124
8	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, 1866-1874.	1.2	118
9	Synthesis of O-glycan core 3: Characterization of UDP-GlcNAc: GalNAc-R Î²3-N-acetyl-glucosaminyltransferase activity from colonic mucosal tissues and lack of the activity in human cancer cell lines. Glycobiology, 1995, 5, 351-357.	1.3	77
10	Control of mucin synthesis: the peptide portion of synthetic O-glycopeptide substrates influences the activity of O-glycan core 1 uridine 5'-diphospho-galactose:N-acetyl-.alpha.-galactosaminyl-.alpha.-R .beta.3-galactosyltransferase. Biochemistry, 1990, 29, 10206-10212.	1.2	74
11	Enzymatic basis for sialyl-Tn expression in human colon cancer cells. Glycoconjugate Journal, 1998, 15, 595-603.	1.4	65
12	UDPgalactose:glycoprotein-N-acetyl-d-galactosamine 3-beta-d-galactosyltransferase activity synthesizing O-glycan core 1 is controlled by the amino acid sequence and glycosylation of glycopeptide substrates. FEBS Journal, 1994, 221, 1039-1046.	0.2	64
13	Characterization of a novel mucin sulphotransferase activity synthesizing sulphated O-glycan core 1, 3-sulphate-GalÎ²1-3GalNAcÎ±-R. Glycobiology, 1995, 5, 689-697.	1.3	54
14	ProcessingO-glycan core 1, Gal?1-3GalNAc?-R. Specificities of core 2, UDP-GlcNAc: Gal?1-3GalNAc-R(GlcNAc to GalNAc) ?6-N-acetylglucosaminyltransferase and CMP-sialic acid:Gal?1-3GalNAc-R ?3-sialyltransferase. Glycoconjugate Journal, 1993, 10, 381-394.	1.4	53
15	Crossroads between Bacterial and Mammalian Glycosyltransferases. Frontiers in Immunology, 2014, 5, 492.	2.2	53
16	Mucin synthesis. III. UDP-GlcNAc:GalÎ²1-3(GlcNAcÎ²1-6)GalNAc-R (GlcNAc to Gal) Î²3-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
17	Clinical Aspects of Glycoprotein Biosynthesis. Critical Reviews in Clinical Laboratory Sciences, 1993, 30, 65-151.	2.7	50
18	Specificity of O-glycosylation by bovine colostrum UDP-GalNAc: polypeptide ?-N-acetylgalactosaminyltransferase using synthetic glycopeptide substrates. Glycoconjugate Journal, 1996, 13, 849-856.	1.4	50

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19	Expression of stable human O-glycan core 2 Î²-1,6-N-acetylglucosaminyltransferase in Sf9 insect cells. Biochemical Journal, 1997, 325, 63-69.	1.7	50
20	Control of glycoprotein synthesis: substrate specificity of rat liver UDP-GlcNAc:Man?3R ?2-N-acetylglucosaminyl-transferase I using synthetic substrate analogues. Glycoconjugate Journal, 1992, 9, 180-190.	1.4	49
21	Glycodynamics of Mucin Biosynthesis in Gastrointestinal Tumor Cells. Advances in Experimental Medicine and Biology, 2003, 535, 163-188.	0.8	47
22	Identification of a UDP-Gal: GlcNAc-R galactosyltransferase activity in Escherichia coli VW187. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 1205-1211.	1.0	44
23	Control of O-glycan synthesis: specificity and inhibition of O-glycan core 1 UDP-galactose:N-acetylgalactosamine-Î±-R Î²3-galactosyltransferase from rat liver. Biochemistry and Cell Biology, 1992, 70, 99-108.	0.9	43
24	Synthetic substrate analogues for UDP-GlcNAc: ManÎ±1-6R Î²(1-2)-N-acetylglucosaminyltransferase II. Substrate specificity and inhibitors for the enzyme. Glycoconjugate Journal, 1994, 11, 210-216.	1.4	41
25	The effect of TNF-Î± on glycosylation pathways in bovine synoviocytes. Biochemistry and Cell Biology, 2004, 82, 559-568.	0.9	41
26	UDP-Gal: GlcNAc-R Î²1,4-galactosyltransferaseâ€"a target enzyme for drug design. Acceptor specificity and inhibition of the enzyme. Glycoconjugate Journal, 2006, 23, 525-541.	1.4	40
27	Substrate specificity and inhibition of UDP-GlcNAc:GlcNAc?1-2Man?1-6R ?1,6-N-acetylglucosaminyltransferase V using synthetic substrate analogues. Glycoconjugate Journal, 1995, 12, 371-379.	1.4	34
28	The wbbD gene of E. coli strain VW187 (O7:K1) encodes a UDP-Gal: GlcNAcÎ±-pyrophosphate-R Î²1,3-galactosyltransferase involved in the biosynthesis of O7-specific lipopolysaccharide. Glycobiology, 2005, 15, 605-613.	1.3	33
29	Characterization of Two Î²-1,3-Glucosyltransferases fromEscherichia coliSerotypes O56 and O152. Journal of Bacteriology, 2008, 190, 4922-4932.	1.0	31
30	Biosynthesis of the Common Polysaccharide Antigen of Pseudomonas aeruginosa PAO1: Characterization and Role of GDP- <scp>d</scp> -Rhamnose:GlcNAc/GalNAc-Diphosphate-Lipid Î±1,3- <scp>d</scp> -Rhamnosyltransferase WbpZ. Journal of Bacteriology, 2015, 197, 2012-2019.	1.0	29
31	Site directed processing: Role of amino acid sequences and glycosylation of acceptor glycopeptides in the assembly of extended mucin type O-glycan core 2. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 1244-1257.	1.1	28
32	Biochemical characterization of WbdN, a Î²1,3-glucosyltransferase involved in O-antigen synthesis in enterohemorrhagic Escherichia coli O157. Glycobiology, 2012, 22, 1092-1102.	1.3	28
33	Characterization of Two UDP-Gal:GalNAc-Diphosphate-Lipid Î²1,3-Galactosyltransferases WbwC from Escherichia coli Serotypes O104 and O5. Journal of Bacteriology, 2014, 196, 3122-3133.	1.0	28
34	The role of galactosyltransferases in cell surface functions and in the immune system. Drug News and Perspectives, 2006, 19, 401.	1.9	28
35	Glycoprotein biosynthesis in porcine aortic endothelial cells and changes in the apoptotic cell population. Glycobiology, 2002, 12, 33-45.	1.3	27
36	Selective inhibition of glycosyltransferases by bivalent imidazolium salts. Bioorganic and Medicinal Chemistry, 2013, 21, 1305-1311.	1.4	27

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37	Biochemical Characterization of UDP-Gal:GlcNAc-Pyrophosphate-Lipid Î²-1,4-Galactosyltransferase WfeD, a New Enzyme fromShigella boydiiType 14 That Catalyzes the Second Step in O-Antigen Repeating-Unit Synthesis. Journal of Bacteriology, 2011, 193, 449-459.	1.0	26
38	Glycosylation potential of human prostate cancer cell lines. Glycoconjugate Journal, 2012, 29, 525-537.	1.4	26
39	Preferred conformations and dynamics of five core structures of mucin typeO-glycans determined by NMR spectroscopy and force field calculations. Glycoconjugate Journal, 1993, 10, 365-380.	1.4	25
40	Synthetic substrate analogues for UDP-GlcNAc: Man?1-3R ?1-2-N-acetylglucosaminyltransferase I. Substrate specificity and inhibitors for the enzyme. Glycoconjugate Journal, 1995, 12, 747-754.	1.4	25
41	Role of Glycans on Key Cell Surface Receptors That Regulate Cell Proliferation and Cell Death. Cells, 2021, 10, 1252.	1.8	25
42	Sialylated core 1 based O-linked glycans enhance the growth rate of mammary carcinoma cells in MUC1 transgenic mice. International Journal of Oncology, 2004, 25, 937-43.	1.4	24
43	Requirement of N-glycosylation for the secretion of recombinant extracellular domain of human Fas in HeLa cells. International Journal of Biochemistry and Cell Biology, 2007, 39, 1625-1636.	1.2	23
44	Mucins as anti-cancer targets: perspectives of the glycobiologist. Glycoconjugate Journal, 2021, 38, 459-474.	1.4	21
45	Bausteine von Oligosacchariden, CIV. Synthese von verzweigten Tetrasaccharid- und Pentasaccharid-Strukturen vonN-Glycoproteinen, methyliert an 4â€²-OH des Verzweigungsgliedes. Liebigs Annalen Der Chemie, 1992, 1992, 1303-1313.	0.8	20
46	From imino sugars to cancer glycoproteins. Glycoconjugate Journal, 2001, 18, 867-870.	1.4	20
47	A very simple synthesis of GlcNAc-Î±-pyrophosphoryl-decanol: A substrate for the assay of a bacterial galactosyltransferase. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 804-807.	1.0	18
48	Specificity of Î²1,4-galactosyltransferase inhibition by 2-naphthyl 2-butanamido-2-deoxy-1-thio-Î²-D-glucopyranoside. Glycoconjugate Journal, 2010, 27, 673-684.	1.4	18
49	Synthesis of acceptor substrate analogs for the study of glycosyltransferases involved in the second step of the biosynthesis of O-antigen repeating units. Carbohydrate Research, 2010, 345, 586-597.	1.1	18
50	The expression and functional analysis of the sialyl-T antigen in prostate cancer. Glycoconjugate Journal, 2020, 37, 423-433.	1.4	18
51	Bausteine von Oligosacchariden, CVIII. Synthese von modifizierten Oligosacchariden der Nâ€Glycoproteine zur Untersuchung der SubstratspezifitÃten der Nâ€Acetylglucosaminyltransferasen III bis VI. Liebigs Annalen Der Chemie, 1993, 1993, 737-750.	0.8	17
52	Soluble human core 2 Î²6-N-acetylglucosaminyltransferase C2GnT1 requires its conserved cysteine residues for full activity. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1648, 62-74.	1.1	17
53	Identification and Biochemical Characterization of the Novel Î±2,3-Sialyltransferase WbwA from Pathogenic Escherichia coli Serotype O104. Journal of Bacteriology, 2015, 197, 3760-3768.	1.0	17
54	Biosynthesis of mucin type O-glycans: lack of correlation between glycosyltransferase and sulfotransferase activities and CFTR expression. Glycoconjugate Journal, 2001, 18, 685-697.	1.4	16

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55	N-Acyl derivatives of glucosamine as acceptor substrates for galactosyltransferase from bone and cartilage cells. Carbohydrate Research, 2005, 340, 1997-2003.	1.1	16
56	Decreased salivary sulphotransferase activity correlated with inflammation and autoimmunity parameters in Sjogren's syndrome patients. Rheumatology, 2012, 51, 482-490.	0.9	16
57	Functional Characterization of Enzymatic Steps Involved in Pyruvylation of Bacterial Secondary Cell Wall Polymer Fragments. Frontiers in Microbiology, 2018, 9, 1356.	1.5	16
58	Bausteine von Oligosacchariden, CII. Synthese von modifizierten Derivaten der 2â€Acetamidoâ€2â€desoxyâ€<scp>D</scp>â€galactose zur Untersuchung der SubstratspezifitÃt der Coreâ€1â€Î²3â€Galâ€Transferase und der Coreâ€3â€Î²3â€GlcNAcâ€Transferase der Biosynthese von Oâ€Glycoproteinen. Liebigs Annalen Der Chemie, 1992, 1992, 735-745.	0.8	15
59	Bausteine von Oligosacchariden, CIII. Synthese von modifizierten Derivaten des Disaccharides Î²-D-Gal-(1 â†') Tj ETQq1 1 0.784314 rgBT Î±-3-Sialyltransferase der Biosynthese vonO-Glycoproteinen. Liebigs Annalen Der Chemie, 1992, 1992, 747-758.	0.8	15
60	A convenient synthesis of GDP-d-rhamnose: The donor substrate for d-rhamnosyltransferase WbpZ from Pseudomonas aeruginosa PAO1. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 3491-3495.	1.0	15
61	Acceptor specificities and selective inhibition of recombinant human Gal- and GlcNAc-transferases that synthesize core structures 1, 2, 3 and 4 of O-glycans. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4274-4281.	1.1	14
62	Glycosylation pathways of human corneal and conjunctival epithelial cell mucins. Carbohydrate Research, 2018, 470, 50-56.	1.1	14
63	Acceptor substrate specificity of UDP-Gal: GlcNAc-R Î²1,3-galactosyltransferase (WbbD) from Escherichia coli O7:K1. Glycoconjugate Journal, 2008, 25, 663-73.	1.4	13
64	Synthese von <scp>L</scp>â€Prolinâ€haltigen Oâ€Glycopeptiden. Liebigs Annalen Der Chemie, 1990, 1990, 719-739.	0.8	12
65	Bausteine von Oligosacchariden, CVII â€“ Synthese von modifizierten Oligosacchariden der Nâ€Glycoproteine zur Untersuchung der SubstratspezifitÃt der Nâ€Acetylglucosaminyltransferase II. Liebigs Annalen Der Chemie, 1993, 1993, 721-735.	0.8	11
66	Structures and biosynthesis of the N- and O-glycans of recombinant human oviduct-specific glycoprotein expressed in human embryonic kidney cells. Carbohydrate Research, 2012, 358, 47-55.	1.1	10
67	Bausteine von Oligosacchariden, CIX. Synthese von modifizierten Oligosacchariden der Nâ€Glycoproteine zur Untersuchung der SubstratspezifitÃt der Nâ€Acetylglucosaminyltransferase I. Liebigs Annalen, 1995, 1995, 53-66.	0.8	9
68	Synthesis of a fluorescent acceptor substrate for glycosyltransferases involved in the assembly of O-antigens of enterohemorrhagic Escherichia coli O157 and O5. Carbohydrate Research, 2013, 366, 17-24.	1.1	9
69	Inhibition of Glycosyltransferase Activities as the Basis for Drug Development. , 2009, 534, 359-373.		8
70	Human acetyl-CoA:glucosamine-6-phosphate N-acetyltransferase 1 has a relaxed donor specificity and transfers acyl groups up to four carbons in length. Biochemistry and Cell Biology, 2016, 94, 197-204.	0.9	8
71	Identification and biochemical characterization of WbwB, a novel UDP-Gal: Neu5Ac-R Î±1,4-galactosyltransferase from the intestinal pathogen Escherichia coli serotype O104. Glycoconjugate Journal, 2018, 35, 65-76.	1.4	8
72	Inflammation and arthritis: perspectives of the glycobiologist. Expert Review of Clinical Immunology, 2008, 4, 173-191.	1.3	7

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73	Biosynthesis of the Pseudomonas aeruginosa common polysaccharide antigen by D-Rhamnosyltransferases WbpX and WbpY. Glycoconjugate Journal, 2022, 39, 393-411.	1.4	7
74	Biosynthesis of Complex Mucin-Type O-Glycans. , 2010, , 315-350.		6
75	Synthesis of P 1 -(11-phenoxyundecyl)-P 2 -(2-acetamido-2-deoxy-3- O -Î±- D -rhamnopyranosyl-Î±- D) TJ ETQq1 1 0.784314 rgBT /Overlock O-antigenic polysaccharides in Pseudomonas aeruginosa and Escherichia coli O104. Carbohydrate Research, 2017, 452-454, 19-25.	1.1	6
76	Bausteine von Oligosacchariden, CX. Synthese von potentiellen Inhibitoren fÃ¼r die Nâ€Acetylglucosaminyltransferase I. Liebigs Annalen, 1995, 1995, 67-76.	0.8	5
77	Functional Identification of Bacterial Glucosyltransferase WbdN. Methods in Molecular Biology, 2013, 1022, 199-214.	0.4	3
78	Identification and characterization of the 4-epimerase AglW from the archaeon Methanococcus maripaludis. Glycoconjugate Journal, 2018, 35, 525-535.	1.4	3
79	ThewclYgene ofEscherichia coliserotype O117 encodes an Î±1,4-glucosyltransferase with strict acceptor specificity but broad donor specificity. Glycobiology, 2020, 30, 9003-9014.	1.3	3
80	Inhibition of bacterial growth and galactosyltransferase activity of WbwC by Î±, Ï‰-bis(3-alkyl-1H-imidazolium)alkane salts: Effect of varying carbon content. Bioorganic and Medicinal Chemistry, 2020, 28, 115494.	1.4	3
81	Intestinal candyfloss. Biochemical Journal, 2004, 384, e3-5.	1.7	2
82	Analysis of the Glycodynamics of Primary Osteoblasts and Bone Cancer Cells. , 2006, 347, 211-236.		1
83	Synthesis of Phenoxyundecyl Diphosphate Disaccharides for Studies of the Biosynthesis of O Antigenic Polysaccharides in Enteric Bacteria. Methods in Molecular Biology, 2019, 1954, 161-174.	0.4	1
84	Enzymatic Synthesis of Repeating Unit Oligosaccharides of Escherichia coli O104. Methods in Molecular Biology, 2019, 1954, 187-202.	0.4	1
85	Glycosyltransferase-Coupled Assays for 4-Epimerase WbpP from Pseudomonas aeruginosa. Methods in Molecular Biology, 2019, 1954, 255-268.	0.4	1
86	Biosynthesis of Bacterial Polysaccharides. , 2021, , 143-178.		1
87	Glycoconjugate journal special issue on: the glycobiology of Parkinsonâ€™s disease. Glycoconjugate Journal, 2021, , 1.	1.4	1
88	Title is missing!. Glycoconjugate Journal, 1997, 14, 697-698.	1.4	0
89	Introduction to the special issue â€˜Glycobiology of cancerâ€™. Glycoconjugate Journal, 2001, 18, 837-838.	1.4	0
90	Assay for a Galactosyltransferase Involved in the Assembly of the O7-Antigen Repeat Unit of Escherichia coli. , 2006, 347, 253-266.		0

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91	Role of Glycans in Cancer Cell Death: A Deadly Relationship. , 2016, , 163-193.		0
92	Mucin-Type O-Glycans: Biosynthesis and Functions. , 2021, , 233-252.		0