

# Hans Bakker

## List of Publications by Year in descending order

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64  
papers

3,328  
citations

147801

31  
h-index

144013

57  
g-index

67  
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67  
docs citations

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times ranked

3193  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Syndrome with Congenital Neutropenia and Mutations in <i>G6PC3</i> . <i>New England Journal of Medicine</i> , 2009, 360, 32-43.	27.0	331
2	Galactose-extended glycans of antibodies produced by transgenic plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 2899-2904.	7.1	314
3	Contribution of Galactofuranose to the Virulence of the Opportunistic Pathogen <i>Aspergillus fumigatus</i> . <i>Eukaryotic Cell</i> , 2008, 7, 1268-1277.	3.4	144
4	An antibody produced in tobacco expressing a hybrid beta-1,4-galactosyltransferase is essentially devoid of plant carbohydrate epitopes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 7577-7582.	7.1	134
5	Effect of Climate Conditions and Plant Developmental Stage on the Stability of Antibodies Expressed in Transgenic Tobacco. <i>Plant Physiology</i> , 2000, 124, 173-182.	4.8	128
6	Molecular cloning of a human cDNA encoding $\beta$ -1,4-galactosyltransferase with 37% identity to mammalian UDP-Gal:GlcNAc $\beta$ -1,4-galactosyltransferase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 472-477.	7.1	125
7	Identification of Glycosyltransferase 8 Family Members as Xylosyltransferases Acting on O-Glucosylated Notch Epidermal Growth Factor Repeats. <i>Journal of Biological Chemistry</i> , 2010, 285, 1582-1586.	3.4	112
8	Expression Cloning of a cDNA Encoding a Sulfotransferase Involved in the Biosynthesis of the HNK-1 Carbohydrate Epitope. <i>Journal of Biological Chemistry</i> , 1997, 272, 29942-29946.	3.4	109
9	<i>C.Âelegans</i> DPY-19 Is a C-Mannosyltransferase Glycosylating Thrombospondin Repeats. <i>Molecular Cell</i> , 2013, 50, 295-302.	9.7	106
10	The Human Solute Carrier Gene SLC35B4 Encodes a Bifunctional Nucleotide Sugar Transporter with Specificity for UDP-Xylose and UDP-N-Acetylglucosamine. <i>Journal of Biological Chemistry</i> , 2005, 280, 27230-27235.	3.4	100
11	Influence of Growth Conditions and Developmental Stage on N-Glycan Heterogeneity of Transgenic Immunoglobulin G and Endogenous Proteins in Tobacco Leaves. <i>Plant Physiology</i> , 2001, 126, 1314-1322.	4.8	95
12	Nucleotide sugar transporters: Biological and functional aspects. <i>Biochimie</i> , 2001, 83, 775-782.	2.6	92
13	Glycosylation in Lepidopteran insect cells: identification of a $\beta$ -1,4-N-acetylgalactosaminyltransferase involved in the synthesis of complex-type oligosaccharide chains. <i>Glycobiology</i> , 1996, 6, 157-164.	2.5	90
14	Negative Regulation of Notch Signaling by Xylose. <i>PLoS Genetics</i> , 2013, 9, e1003547.	3.5	88
15	Molecular Cloning of a Xylosyltransferase That Transfers the Second Xylose to O-Glucosylated Epidermal Growth Factor Repeats of Notch. <i>Journal of Biological Chemistry</i> , 2012, 287, 2739-2748.	3.4	76
16	Site-specific O-Glucosylation of the Epidermal Growth Factor-like (EGF) Repeats of Notch. <i>Journal of Biological Chemistry</i> , 2012, 287, 33934-33944.	3.4	68
17	Distinct C-mannosylation of netrin receptor thrombospondin type 1 repeats by mammalian DPY19L1 and DPY19L3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2574-2579.	7.1	68
18	C-mannosylation supports folding and enhances stability of thrombospondin repeats. <i>ELife</i> , 2019, 8, .	6.0	62

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19	Novel glycosylation routes for glycoproteins: the lacdiNAc pathway. <i>Biochemical Society Transactions</i> , 1995, 23, 175-179.	3.4	61
20	Efficient introduction of a bisecting GlcNAc residue in tobacco N-glycans by expression of the gene encoding human N-acetylglucosaminyltransferase III. <i>Glycobiology</i> , 2007, 17, 334-344.	2.5	61
21	Functional UDP-xylose Transport across the Endoplasmic Reticulum/Golgi Membrane in a Chinese Hamster Ovary Cell Mutant Defective in UDP-xylose Synthase. <i>Journal of Biological Chemistry</i> , 2009, 284, 2576-2583.	3.4	61
22	Identification and partial characterization of two eukaryotic UDP-galactopyranose mutases. <i>Biological Chemistry</i> , 2005, 386, 657-61.	2.5	60
23	Notch-modifying xylosyltransferase structures support an SNI-like retaining mechanism. <i>Nature Chemical Biology</i> , 2015, 11, 847-854.	8.0	60
24	Enteral Drug Absorption in Patients with Short Small Bowel. <i>Clinical Pharmacokinetics</i> , 2004, 43, 951-962.	3.5	58
25	Plant members of the Î±1â†’3/4-fucosyltransferase gene family encode an Î±1â†’4-fucosyltransferase, potentially involved in Lewisabiosynthesis, and two core Î±1â†’3-fucosyltransferases1. <i>FEBS Letters</i> , 2001, 507, 307-312.	2.8	52
26	Endoplasmic reticulum retention of the large splice variant of the UDP-galactose transporter is caused by a dilysine motif. <i>Glycobiology</i> , 2005, 15, 905-911.	2.5	49
27	Molecular cloning of two Arabidopsis UDP-galactose transporters by complementation of a deficient Chinese hamster ovary cell line. <i>Glycobiology</i> , 2004, 15, 193-201.	2.5	47
28	<i>Arabidopsis</i> ROCK1 transports UDP-GlcNAc/UDP-GalNAc and regulates ER protein quality control and cytokinin activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 291-296.	7.1	45
29	Sequence of the ferredoxin-NADP+-reductase gene from <i>Anabaena</i> PCC 7119. <i>Nucleic Acids Research</i> , 1990, 18, 7161-7161.	14.5	44
30	A CMP-sialic acid transporter cloned from <i>Arabidopsis thaliana</i> . <i>Carbohydrate Research</i> , 2008, 343, 2148-2152.	2.3	42
31	Novel pathways in complex-type oligosaccharide synthesis: new vistas opened by studies in invertebrates. <i>Biochemical Society Transactions</i> , 1997, 25, 887-893.	3.4	33
32	An <i>Arabidopsis thaliana</i> cDNA Complements the N-Acetylglucosaminyltransferase I Deficiency of CHO Lec1 Cells. <i>Biochemical and Biophysical Research Communications</i> , 1999, 261, 829-832.	2.1	29
33	LARGE2 generates the same xylose- and glucuronic acid-containing glycan structures as LARGE. <i>Glycobiology</i> , 2013, 23, 303-309.	2.5	28
34	Apicomplexan C-Mannosyltransferases Modify Thrombospondin Type I-containing Adhesins of the TRAP Family. <i>Glycobiology</i> , 2018, 28, 333-343.	2.5	28
35	Membrane Topological Model of Glycosyltransferases of the GT-C Superfamily. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4842.	4.1	28
36	The substrate specificity of the snail <i>Lymnaea stagnalis</i> UDP-GlcNAc:GlcNAc <sup>2</sup> -R Î±2-N-acetylglucosaminyltransferase reveals a novel variant pathway of complex-type oligosaccharide synthesis. <i>Glycobiology</i> , 1997, 7, 539-548.	2.5	27

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37	Functional expression of the CMP-sialic acid transporter in Escherichia coli and its identification as a simple mobile carrier. <i>Glycobiology</i> , 2005, 16, 73-81.	2.5	25
38	A Single <i>Caenorhabditis elegans</i> Golgi Apparatus-Type Transporter of UDP-Glucose, UDP-Galactose, UDP-N-Acetylglucosamine, and UDP-N-Acetylgalactosamine. <i>Biochemistry</i> , 2008, 47, 4337-4344.	2.5	25
39	Deletion of Two Exons from the <i>Lymnaea stagnalis</i> $\beta$ 1,4-N-Acetylglucosaminyltransferase Gene Elevates the Kinetic Efficiency of the Encoded Enzyme for Both UDP-sugar Donor and Acceptor Substrates. <i>Journal of Biological Chemistry</i> , 1997, 272, 18580-18585.	3.4	22
40	Golgi targeting of <i>Drosophila melanogaster</i> $\beta$ 4GalNAcTB requires a DHHC protein family-related protein as a pilot. <i>Journal of Cell Biology</i> , 2009, 184, 173-183.	5.2	20
41	<i>Cryptococcus neoformans</i> UGT1 encodes a UDP-Galactose/UDP-GalNAc transporter. <i>Glycobiology</i> , 2017, 27, 87-98.	2.5	20
42	Distinct contributions of $\beta$ 4GalNAcTA and $\beta$ 4GalNAcTB to <i>Drosophila</i> glycosphingolipid biosynthesis. <i>Glycoconjugate Journal</i> , 2008, 25, 167-175.	2.7	19
43	Letter to the Glyco-Forum. <i>Glycobiology</i> , 1997, 7, 1053-1053.	2.5	17
44	Sensitized genetic backgrounds reveal differential roles for EGF repeat xylosyltransferases in <i>Drosophila</i> Notch signaling. <i>Glycobiology</i> , 2018, 28, 849-859.	2.5	12
45	NMR Spectroscopic Characterization of the C-Mannose Conformation in a Thrombospondin Repeat Using a Selective Labeling Approach. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20659-20665.	13.8	12
46	Novel Pathways in Complex-Type Oligosaccharide Synthesis. <i>Advances in Experimental Medicine and Biology</i> , 1998, 435, 3-7.	1.6	11
47	C-Mannosylation of <i>Toxoplasma gondii</i> proteins promotes attachment to host cells and parasite virulence. <i>Journal of Biological Chemistry</i> , 2020, 295, 1066-1076.	3.4	11
48	C-Mannosylation of <i>Toxoplasma gondii</i> proteins promotes attachment to host cells and parasite virulence. <i>Journal of Biological Chemistry</i> , 2020, 295, 1066-1076.	3.4	9
49	Control and Function of Complex-Type Oligosaccharide Synthesis. <i>Advances in Experimental Medicine and Biology</i> , 1995, 376, 47-52.	1.6	9
50	A Bacterial Mannose Binding Lectin as a Tool for the Enrichment of C- and O-Mannosylated Peptides. <i>Analytical Chemistry</i> , 2022, 94, 7329-7338.	6.5	8
51	Stereoselective Synthesis of the 3-Aminopropyl Glycosides of $\beta$ -Xyl-(1 $\rightarrow$ 3)- $\beta$ -Glc and $\beta$ -Xyl-(1 $\rightarrow$ 3)- $\beta$ -Xyl-(1 $\rightarrow$ 3)- $\beta$ -Glc and of Their Corresponding N-Octanoyl Derivatives. <i>Synthesis</i> , 2007, 2007, 3147-3154.	2.3	7
52	Involvement of N-glycans in binding of <i>Photobacterium luminescens</i> Tc toxin. <i>Cellular Microbiology</i> , 2021, 23, e13326.	2.1	7
53	The C-Mannosylome of Human Induced Pluripotent Stem Cells Implies a Role for ADAMTS16 C-Mannosylation in Eye Development. <i>Molecular and Cellular Proteomics</i> , 2021, 20, 100092.	3.8	7
54	A sweet development in Notch regulation. <i>Journal of Biological Chemistry</i> , 2017, 292, 15974-15975.	3.4	6

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55	"Add-on" domains of Drosophila $\beta$ 1,4-N-acetylgalactosaminyltransferase B in the stem region and its pilot protein. Cellular and Molecular Life Sciences, 2011, 68, 4091-4100.	5.4	5
56	In Vitro Assays of Orphan Glycosyltransferases and Their Application to Identify Notch Xylosyltransferases. Methods in Molecular Biology, 2013, 1022, 307-320.	0.9	4
57	Proteoglycan-Dependent Endo-Lysosomal Fusion Affects Intracellular Survival of Salmonella Typhimurium in Epithelial Cells. Frontiers in Immunology, 2020, 11, 731.	4.8	4
58	NMR Spectroscopic Characterization of the $\alpha$ -Mannose Conformation in a Thrombospondin Repeat Using a Selective Labeling Approach. Angewandte Chemie, 2020, 132, 20840-20846.	2.0	3
59	Yersinia pseudotuberculosis cytotoxic necrotizing factor interacts with glycosaminoglycans. FASEB Journal, 2021, 35, e21647.	0.5	3
60	A Novel Clinical Syndrome Associating Severe Congenital Neutropenia and Complex Developmental Aberrations Caused by Deficiency of G6PC3. Blood, 2008, 112, 5-5.	1.4	3
61	UDP-Glucuronate Decarboxylase 1 (UXS1). , 2014, , 1439-1448.		2
62	The $\alpha$ -mannosyltransferase. FASEB Journal, 2013, 27, 824.2.	0.5	1
63	UDP-Xylose and UDP-N-Acetylglucosamine Transporter (SLC35B4). , 2014, , 1393-1402.		0
64	Carbohydrate Sulfotransferase 10 (CHST10). , 2014, , 1035-1045.		0