

# Nico Callewaert

## List of Publications by Citations

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83

papers

4,025

citations

30

h-index

63

g-index

96

ext. papers

4,819

ext. citations

10.6

avg, IF

5.26

L-index

#	Paper	IF	Citations
83	Genome sequence of the recombinant protein production host <i>Pichia pastoris</i> . <i>Nature Biotechnology</i> , <b>2009</b> , 27, 561-6	44.5	372
82	Noninvasive diagnosis of liver cirrhosis using DNA sequencer-based total serum protein glycomics. <i>Nature Medicine</i> , <b>2004</b> , 10, 429-34	50.5	359
81	Structural Basis for Potent Neutralization of Betacoronaviruses by Single-Domain Camelid Antibodies. <i>Cell</i> , <b>2020</b> , 181, 1004-1015.e15	56.2	319
80	Genome dynamics of the human embryonic kidney 293 lineage in response to cell biology manipulations. <i>Nature Communications</i> , <b>2014</b> , 5, 4767	17.4	275
79	Engineering complex-type N-glycosylation in <i>Pichia pastoris</i> using GlycoSwitch technology. <i>Nature Protocols</i> , <b>2009</b> , 4, 58-70	18.8	178
78	Alteration of protein glycosylation in liver diseases. <i>Journal of Hepatology</i> , <b>2009</b> , 50, 592-603	13.4	164
77	Glycome mapping on DNA sequencing equipment. <i>Nature Protocols</i> , <b>2006</b> , 1, 397-405	18.8	151
76	In vivo synthesis of mammalian-like, hybrid-type N-glycans in <i>Pichia pastoris</i> . <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 2639-46	4.8	146
75	N-glycomic changes in hepatocellular carcinoma patients with liver cirrhosis induced by hepatitis B virus. <i>Hepatology</i> , <b>2007</b> , 46, 1426-35	11.2	133
74	The HAC1 gene from <i>Pichia pastoris</i> : characterization and effect of its overexpression on the production of secreted, surface displayed and membrane proteins. <i>Microbial Cell Factories</i> , <b>2010</b> , 9, 49	6.4	130
73	STAT2 signaling restricts viral dissemination but drives severe pneumonia in SARS-CoV-2 infected hamsters. <i>Nature Communications</i> , <b>2020</b> , 11, 5838	17.4	122
72	GlycoDelete engineering of mammalian cells simplifies N-glycosylation of recombinant proteins. <i>Nature Biotechnology</i> , <b>2014</b> , 32, 485-9	44.5	105
71	GlycoFibroTest is a highly performant liver fibrosis biomarker derived from DNA sequencer-based serum protein glycomics. <i>Molecular and Cellular Proteomics</i> , <b>2009</b> , 8, 986-94	7.6	96
70	Mechanical strain determines the site-specific localization of inflammation and tissue damage in arthritis. <i>Nature Communications</i> , <b>2018</b> , 9, 4613	17.4	83
69	An endoplasmic reticulum-engineered yeast platform for overproduction of triterpenoids. <i>Metabolic Engineering</i> , <b>2017</b> , 40, 165-175	9.7	82
68	A bacterial glycosidase enables mannose-6-phosphate modification and improved cellular uptake of yeast-produced recombinant human lysosomal enzymes. <i>Nature Biotechnology</i> , <b>2012</b> , 30, 1225-31	44.5	79
67	High-throughput profiling of the serum N-glycome on capillary electrophoresis microfluidics systems: toward clinical implementation of GlycoHepatoTest. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 7408-15	7.8	73

66	Diagnostic value of the hemopexin N-glycan profile in hepatocellular carcinoma patients. <i>Clinical Chemistry</i> , <b>2010</b> , 56, 823-31	5.5	64
65	Use of HDEL-tagged <i>Trichoderma reesei</i> mannosyl oligosaccharide 1,2- $\alpha$ -D-mannosidase for N-glycan engineering in <i>Pichia pastoris</i> . <i>FEBS Letters</i> , <b>2001</b> , 503, 173-8	3.8	58
64	Glycome profiling using modern glycomics technology: technical aspects and applications. <i>Biological Chemistry</i> , <b>2010</b> , 391, 149-161	4.5	56
63	Total serum protein N-glycome profiling on a capillary electrophoresis-microfluidics platform. <i>Electrophoresis</i> , <b>2004</b> , 25, 3128-31	3.6	53
62	Hierarchical and Redundant Roles of Activating FcRs in Protection against Influenza Disease by M2e-Specific IgG1 and IgG2a Antibodies. <i>Journal of Virology</i> , <b>2017</b> , 91,	6.6	50
61	Engineering the yeast <i>Yarrowia lipolytica</i> for the production of therapeutic proteins homogeneously glycosylated with Man $\alpha$ 1cNAC $\beta$ and Man $\alpha$ 1cNAC $\mu$ . <i>Microbial Cell Factories</i> , <b>2012</b> , 11, 53	6.4	48
60	Protein Glycosylation as a Diagnostic and Prognostic Marker of Chronic Inflammatory Gastrointestinal and Liver Diseases. <i>Gastroenterology</i> , <b>2020</b> , 158, 95-110	13.3	47
59	Synthetic biology for production of natural and new-to-nature terpenoids in photosynthetic organisms. <i>Plant Journal</i> , <b>2016</b> , 87, 16-37	6.9	42
58	Engineering <i>Yarrowia lipolytica</i> to produce glycoproteins homogeneously modified with the universal Man3GlcNAc2 N-glycan core. <i>PLoS ONE</i> , <b>2012</b> , 7, e39976	3.7	39
57	Using GlycoDelete to produce proteins lacking plant-specific N-glycan modification in seeds. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 1135-7	44.5	36
56	Long-Lasting Cross-Protection Against Influenza A by Neuraminidase and M2e-based immunization strategies. <i>Scientific Reports</i> , <b>2016</b> , 6, 24402	4.9	36
55	Disruption of the SapM locus in <i>Mycobacterium bovis</i> BCG improves its protective efficacy as a vaccine against <i>M. tuberculosis</i> . <i>EMBO Molecular Medicine</i> , <b>2011</b> , 3, 222-34	12	35
54	Structure and Assembly Mechanism of the Signaling Complex Mediated by Human CSF-1. <i>Structure</i> , <b>2015</b> , 23, 1621-1631	5.2	30
53	Yeast-secreted, dried and food-admixed monomeric IgA prevents gastrointestinal infection in a piglet model. <i>Nature Biotechnology</i> , <b>2019</b> , 37, 527-530	44.5	29
52	N-glycan based biomarker distinguishing non-alcoholic steatohepatitis from steatosis independently of fibrosis. <i>Digestive and Liver Disease</i> , <b>2012</b> , 44, 315-22	3.3	29
51	Enhanced membrane protein expression by engineering increased intracellular membrane production. <i>Microbial Cell Factories</i> , <b>2013</b> , 12, 122	6.4	27
50	Efficacy of a trans-sialidase-ISCOMATRIX subunit vaccine candidate to protect against experimental Chagas disease. <i>Vaccine</i> , <b>2015</b> , 33, 1274-83	4.1	27
49	Engineering the <i>Pichia pastoris</i> N-Glycosylation Pathway Using the GlycoSwitch Technology. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1321, 103-22	1.4	26

48	A Glycomics-Based Test Predicts the Development of Hepatocellular Carcinoma in Cirrhosis. <i>Clinical Cancer Research</i> , <b>2017</b> , 23, 2750-2758	12.9	25
47	Capillary electrophoresis of urinary prostate glycoproteins assists in the diagnosis of prostate cancer. <i>Electrophoresis</i> , <b>2014</b> , 35, 1017-24	3.6	25
46	Customized protein glycosylation to improve biopharmaceutical function and targeting. <i>Current Opinion in Biotechnology</i> , <b>2019</b> , 60, 17-28	11.4	25
45	Characterization of genome-wide ordered sequence-tagged Mycobacterium mutant libraries by Cartesian Pooling-Coordinate Sequencing. <i>Nature Communications</i> , <b>2015</b> , 6, 7106	17.4	24
44	Urinary prostate protein glycosylation profiling as a diagnostic biomarker for prostate cancer. <i>Prostate</i> , <b>2015</b> , 75, 314-22	4.2	21
43	A scalable low-cost cGMP process for clinical grade production of the HIV inhibitor 5P12-RANTES in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , <b>2016</b> , 119, 1-10	2	19
42	Comparison of VHH-Fc antibody production in <i>Arabidopsis thaliana</i> , <i>Nicotiana benthamiana</i> and <i>Pichia pastoris</i> . <i>Plant Biotechnology Journal</i> , <b>2015</b> , 13, 938-47	11.6	19
41	Capturing the YmeY the expanding molecular toolbox for RNA and DNA library construction. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 2701-2721	20.1	15
40	Modular Integrated Secretory System Engineering in <i>Pichia pastoris</i> To Enhance G-Protein Coupled Receptor Expression. <i>ACS Synthetic Biology</i> , <b>2016</b> , 5, 1070-1075	5.7	14
39	Release of urinary extracellular vesicles in prostate cancer is associated with altered urinary N-glycosylation profile. <i>Journal of Clinical Pathology</i> , <b>2017</b> , 70, 838-846	3.9	13
38	Engineering of Yeast Glycoprotein Expression. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>2021</b> , 175, 93-135	1.7	13
37	Endoglycosidase S Enables a Highly Simplified Clinical Chemistry Procedure for Direct Assessment of Serum IgG Undergalactosylation in Chronic Inflammatory Disease. <i>Molecular and Cellular Proteomics</i> , <b>2018</b> , 17, 2508-2517	7.6	11
36	Use of a meltable polyacrylamide matrix for sodium dodecyl sulfate-polyacrylamide gel electrophoresis in a procedure for N-glycan analysis on picomole amounts of glycoproteins. <i>Analytical Biochemistry</i> , <b>2002</b> , 303, 93-5	3.1	10
35	A versatile method for circulating cell-free DNA methylome profiling by reduced representation bisulfite sequencing		10
34	Reference genome and comparative genome analysis for the WHO reference strain for <i>Mycobacterium bovis</i> BCG Danish, the present tuberculosis vaccine. <i>BMC Genomics</i> , <b>2019</b> , 20, 561	4.5	9
33	Human T cell glycosylation and implications on immune therapy for cancer. <i>Human Vaccines and Immunotherapeutics</i> , <b>2020</b> , 16, 2374-2388	4.4	8
32	Glycome Patterns of Perfusate in Livers Before Transplantation Associate With Primary Nonfunction. <i>Gastroenterology</i> , <b>2018</b> , 154, 1361-1368	13.3	8
31	A guide to <i>Mycobacterium</i> mutagenesis. <i>FEBS Journal</i> , <b>2019</b> , 286, 3757-3774	5.7	8

30	Ring finger protein 213 assembles into a sensor for ISGylated proteins with antimicrobial activity. <i>Nature Communications</i> , <b>2021</b> , 12, 5772	17.4	8
29	An affinity-enhanced, broadly neutralizing heavy chain-only antibody protects against SARS-CoV-2 infection in animal models. <i>Science Translational Medicine</i> , <b>2021</b> , 13, eabi7826	17.5	7
28	Minimally invasive classification of paediatric solid tumours using reduced representation bisulphite sequencing of cell-free DNA: a proof-of-principle study. <i>Epigenetics</i> , <b>2021</b> , 16, 196-208	5.7	7
27	SapM mutation to improve the BCG vaccine: Genomic, transcriptomic and preclinical safety characterization. <i>Vaccine</i> , <b>2019</b> , 37, 3539-3551	4.1	6
26	Characterization of Human Recombinant N-Acetylgalactosamine-6-Sulfate Sulfatase Produced in <i>Pichia pastoris</i> as Potential Enzyme for Mucopolysaccharidosis IVA Treatment. <i>Journal of Pharmaceutical Sciences</i> , <b>2019</b> , 108, 2534-2541	3.9	5
25	Drug development of an affinity enhanced, broadly neutralizing heavy chain-only antibody that restricts SARS-CoV-2 in rodents		4
24	A Potential Role for Fructosamine-3-Kinase in Cataract Treatment. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
23	N-Linked Glycosylation and Near-Infrared Spectroscopy in the Diagnosis of Prostate Cancer. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	3
22	Functional exploration of the GH29 fucosidase family. <i>Glycobiology</i> , <b>2020</b> , 30, 735-745	5.8	3
21	Single-Chain Soluble Receptor Fusion Proteins as Versatile Cytokine Inhibitors. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 1422	8.4	3
20	Off-target glycans encountered along the synthetic biology route toward humanized N-glycans in <i>Pichia pastoris</i> . <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 2479-2488	4.9	2
19	Synthesis of Isofagomine and a New C6 Pyrrolidine Azasugar with Potential Biological Activity. <i>Synlett</i> , <b>2008</b> , 2008, 2321-2325	2.2	2
18	N-Glycan Engineering in Yeasts and Fungi <b>2005</b> , 431-478		2
17	Consequences of Soluble ICAM-1 N-Glycan Alterations on Receptor Binding and Signaling Kinetics in Mouse Astrocytes. <i>Open Glycoscience</i> , <b>2008</b> , 1, 40-51		2
16	Minimally invasive classification of pediatric solid tumors using reduced representation bisulfite sequencing of cell-free DNA: a proof-of-principle study		2
15	Prostate Protein N-Glycosylation Profiling by Means of DNA Sequencer-Assisted Fluorophore-Assisted Carbohydrate Electrophoresis. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1972, 235-250	1.4	1
14	Membrane protein expression and analysis in yeast. <i>Methods in Enzymology</i> , <b>2015</b> , 556, 123-40	1.7	1
13	Massively parallel interrogation of protein fragment secretability using SECriFY reveals features influencing secretory system transit. <i>Nature Communications</i> , <b>2021</b> , 12, 6414	17.4	1

12	GlyConnect-Ugi: site-selective, multi-component glycoprotein conjugations through GlycoDelete expressed glycans.. <i>Organic and Biomolecular Chemistry</i> , <b>2021</b> ,	3.9	1
11	Epidermal galactose spurs chytrid virulence and predicts amphibian colonization. <i>Nature Communications</i> , <b>2021</b> , 12, 5788	17.4	1
10	Reference genome for the WHO reference strain for Mycobacterium bovis BCG Danish, the present tuberculosis vaccine		1
9	Use of a counterselectable transposon to create markerless knockouts from a 18,432-clone ordered M. bovis BCG mutant resource		1
8	Development of a Counterselectable Transposon To Create Markerless Knockouts from an 18,432-Clone Ordered Mycobacterium bovis Bacillus Calmette-Guérin Mutant Resource. <i>MSystems</i> , <b>2020</b> , 5,	7.6	1
7	Glycomics-based serum markers as reliable tool for assessment of viral response after treatment with direct-acting antiviral drugs in hepatitis C virus infection.. <i>Acta Clinica Belgica</i> , <b>2022</b> , 1-7	1.8	1
6	Yeast-produced fructosamine-3-kinase retains mobility after ex vivo intravitreal injection in human and bovine eyes as determined by Fluorescence Correlation Spectroscopy.. <i>International Journal of Pharmaceutics</i> , <b>2022</b> , 121772	6.5	1
5	Tissue linked glycosylation as potential prognostic biomarker for biochemical recurrence-free survival. <i>Biomarkers</i> , <b>2021</b> , 26, 275-285	2.6	0
4	Knockout of RSN1, TVP18 or CSC1-2 causes perturbation of Golgi cisternae in Pichia pastoris. <i>Traffic</i> , <b>2021</b> , 22, 48-63	5.7	0
3	Exploration of Synergistic Action of Cell Wall-Degrading Enzymes against Mycobacterium tuberculosis. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2021</b> , 65, e0065921	5.9	0
2	Pichia pastoris GlycoDelete: the way out when N-glycans are a burden. <i>New Biotechnology</i> , <b>2014</b> , 31, S16	6.4	
1	Serum Glycomics on Postoperative Day 7 Are Associated With Graft Loss Within 3 Months After Liver Transplantation Regardless of Early Allograft Dysfunction. <i>Transplantation</i> , <b>2021</b> , 105, 2404-2410	1.8	