

# Nicolle H Packer

## List of Publications by Year in descending order

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253  
papers

16,004  
citations

12330

69  
h-index

22166

113  
g-index

265  
all docs

265  
docs citations

265  
times ranked

13650  
citing authors

#	ARTICLE	IF	CITATIONS
1	Symbol Nomenclature for Graphical Representations of Glycans. <i>Glycobiology</i> , 2015, 25, 1323-1324.	2.5	818
2	Comparative genome sequence analysis underscores mycoparasitism as the ancestral life style of <i>Trichoderma</i> . <i>Genome Biology</i> , 2011, 12, R40.	8.8	594
3	Cell surface protein glycosylation in cancer. <i>Proteomics</i> , 2014, 14, 525-546.	2.2	436
4	GlycoMod - A software tool for determining glycosylation compositions from mass spectrometric data. <i>Proteomics</i> , 2001, 1, 340-349.	2.2	434
5	A general approach to desalting oligosaccharides released from glycoproteins. <i>Glycoconjugate Journal</i> , 1998, 15, 737-747.	2.7	427
6	Comparison of the methods for profiling glycoprotein glycansâ€”HUPO Human Disease Glycomics/Proteome Initiative multi-institutional study. <i>Glycobiology</i> , 2007, 17, 411-422.	2.5	382
7	Structural analysis of N- and O-glycans released from glycoproteins. <i>Nature Protocols</i> , 2012, 7, 1299-1310.	12.0	363
8	Structure of the O antigen of <i>Escherichia coli</i> K-12 and the sequence of its <i>rfb</i> gene cluster. <i>Journal of Bacteriology</i> , 1994, 176, 4144-4156.	2.2	309
9	Updates to the Symbol Nomenclature for Glycans guidelines. <i>Glycobiology</i> , 2019, 29, 620-624.	2.5	292
10	Simultaneous Glycan-Peptide Characterization Using Hydrophilic Interaction Chromatography and Parallel Fragmentation by CID, Higher Energy Collisional Dissociation, and Electron Transfer Dissociation MS Applied to the N-Linked Glycoproteome of <i>Campylobacter jejuni</i> . <i>Molecular and Cellular Proteomics</i> , 2011, 10, S1-S18.	3.8	265
11	Mucinâ€”type Oâ€”glycosylation â€” putting the pieces together. <i>FEBS Journal</i> , 2010, 277, 81-94.	4.7	209
12	Small-Scale Analysis of O-Linked Oligosaccharides from Glycoproteins and Mucins Separated by Gel Electrophoresis. <i>Analytical Chemistry</i> , 2002, 74, 6088-6097.	6.5	204
13	Salivary mucin MG1 is comprised almost entirely of different glycosylated forms of the MUC5B gene product. <i>Glycobiology</i> , 1999, 9, 293-302.	2.5	183
14	Advances in LCâ€”MS/MS-based glycoproteomics: Getting closer to system-wide site-specific mapping of the N- and O-glycoproteome. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 1437-1452.	2.3	183
15	Determination of site-specific glycan heterogeneity on glycoproteins. <i>Nature Protocols</i> , 2012, 7, 1285-1298.	12.0	170
16	Maturing Glycoproteomics Technologies Provide Unique Structural Insights into the N-glycoproteome and Its Regulation in Health and Disease. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 1773-1790.	3.8	166
17	Proteomics: Capacity versus utility. <i>Electrophoresis</i> , 2000, 21, 1071-1081.	2.4	158
18	Protein glycosylation pathways in filamentous fungi. <i>Glycobiology</i> , 2008, 18, 626-637.	2.5	157

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19	Site-Specific Glycan-Peptide Analysis for Determination of <i>N</i> -Glycoproteome Heterogeneity. <i>Journal of Proteome Research</i> , 2013, 12, 5791-5800.	3.7	153
20	UniCarbKB: building a knowledge platform for glycoproteomics. <i>Nucleic Acids Research</i> , 2014, 42, D215-D221.	14.5	147
21	Protein phosphorylation: technologies for the identification of phosphoamino acids. <i>Journal of Chromatography A</i> , 1998, 808, 23-41.	3.7	143
22	Unseen Proteome: Mining Below the Tip of the Iceberg To Find Low Abundance and Membrane Proteins. <i>Journal of Proteome Research</i> , 2003, 2, 303-311.	3.7	140
23	Negative ion graphitised carbon nano-liquid chromatography/mass spectrometry increases sensitivity for glycoprotein oligosaccharide analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 2282-2292.	1.5	138
24	Comparison of Methods for Profiling O-Glycosylation. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 719-727.	3.8	136
25	Site-specific glycoproteomics confirms that protein structure dictates formation of N-glycan type, core fucosylation and branching. <i>Glycobiology</i> , 2012, 22, 1440-1452.	2.5	136
26	Studies on the "Insoluble" Glycoprotein Complex from Human Colon. <i>Journal of Biological Chemistry</i> , 1999, 274, 15828-15836.	3.4	135
27	Specific Glycosylation of Membrane Proteins in Epithelial Ovarian Cancer Cell Lines: Glycan Structures Reflect Gene Expression and DNA Methylation Status. <i>Molecular and Cellular Proteomics</i> , 2014, 13, 2213-2232.	3.8	134
28	Modified glycosylation of cellobiohydrolase I from a high cellulase-producing mutant strain of <i>Trichoderma reesei</i> . <i>FEBS Journal</i> , 1998, 256, 119-127.	0.2	133
29	UniCarb-DB: a database resource for glycomic discovery. <i>Bioinformatics</i> , 2011, 27, 1343-1344.	4.1	128
30	Localization of O-Glycosylation Sites on Glycopeptide Fragments from Lactation-associated MUC1. <i>Journal of Biological Chemistry</i> , 1997, 272, 24780-24793.	3.4	127
31	Sequential Analysis of N- and O-Linked Glycosylation of 2D-PAGE Separated Glycoproteins. <i>Journal of Proteome Research</i> , 2002, 1, 521-529.	3.7	127
32	Structural determination of neutral O-linked oligosaccharide alditols by negative ion LC-electrospray-MSn. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 659-672.	2.8	125
33	GlyYouCan: an accessible glycan structure repository. <i>Glycobiology</i> , 2017, 27, 915-919.	2.5	123
34	GlyGen: Computational and Informatics Resources for Glycoscience. <i>Glycobiology</i> , 2020, 30, 72-73.	2.5	123
35	GlycoSuiteDB: a curated relational database of glycoprotein glycan structures and their biological sources. 2003 update. <i>Nucleic Acids Research</i> , 2003, 31, 511-513.	14.5	122
36	Structural Feature Ions for Distinguishing <i>N</i> - and <i>O</i> -Linked Glycan Isomers by LC-ESI-IT MS/MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 895-906.	2.8	122

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37	Development of a mass fingerprinting tool for automated interpretation of oligosaccharide fragmentation data. <i>Proteomics</i> , 2004, 4, 1650-1664.	2.2	121
38	MIRAGE: The minimum information required for a glycomics experiment. <i>Glycobiology</i> , 2014, 24, 402-406.	2.5	116
39	N-glycan MALDI Imaging Mass Spectrometry on Formalin-Fixed Paraffin-Embedded Tissue Enables the Delineation of Ovarian Cancer Tissues. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 3003-3016.	3.8	111
40	Total Synthesis of Homogeneous Antifreeze Glycopeptides and Glycoproteins. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3606-3610.	13.8	106
41	Toward Automated <i>N</i> -Glycopeptide Identification in Glycoproteomics. <i>Journal of Proteome Research</i> , 2016, 15, 3904-3915.	3.7	105
42	GlycoSuiteDB: a new curated relational database of glycoprotein glycan structures and their biological sources. <i>Nucleic Acids Research</i> , 2001, 29, 332-335.	14.5	103
43	Interlaboratory Study on Differential Analysis of Protein Glycosylation by Mass Spectrometry: The ABRF Glycoprotein Research Multi-Institutional Study 2012. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 2935-2951.	3.8	103
44	Quantitative N-linked Glycoproteomics of Myocardial Ischemia and Reperfusion Injury Reveals Early Remodeling in the Extracellular Environment. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.006833.	3.8	101
45	GlycoSpectrumScan: Fishing Glycopeptides from MS Spectra of Protease Digests of Human Colostrum sIgA. <i>Journal of Proteome Research</i> , 2010, 9, 1063-1075.	3.7	100
46	Comparative <i>N</i> -Glycan Profiling of Colorectal Cancer Cell Lines Reveals Unique Bisecting GlcNAc and $\pm$ -2,3-Linked Sialic Acid Determinants Are Associated with Membrane Proteins of the More Metastatic/Aggressive Cell Lines. <i>Journal of Proteome Research</i> , 2014, 13, 277-288.	3.7	97
47	GlyConnect: Glycoproteomics Goes Visual, Interactive, and Analytical. <i>Journal of Proteome Research</i> , 2019, 18, 664-677.	3.7	95
48	Comparative structural analysis of the glycosylation of salivary and buccal cell proteins: innate protection against infection by <i>Candida albicans</i> . <i>Glycobiology</i> , 2012, 22, 1465-1479.	2.5	93
49	Glycoconjugates in human milk: Protecting infants from disease. <i>Glycobiology</i> , 2013, 23, 1425-1438.	2.5	93
50	Building a PGC-LC-MS N-glycan retention library and elution mapping resource. <i>Glycoconjugate Journal</i> , 2018, 35, 15-29.	2.7	93
51	Human Neutrophils Secrete Bioactive Paucimannosidic Proteins from Azurophilic Granules into Pathogen-Infected Sputum. <i>Journal of Biological Chemistry</i> , 2015, 290, 8789-8802.	3.4	90
52	Characterization of O-linked glycosylation motifs in the glycopeptide domain of bovine $\beta$ -casein. <i>Glycobiology</i> , 1994, 4, 837-844.	2.5	87
53	NIST Interlaboratory Study on Glycosylation Analysis of Monoclonal Antibodies: Comparison of Results from Diverse Analytical Methods. <i>Molecular and Cellular Proteomics</i> , 2020, 19, 11-30.	3.8	87
54	Facile Assembly of Functional Upconversion Nanoparticles for Targeted Cancer Imaging and Photodynamic Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 11945-11953.	8.0	86

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55	Identification of two highly sialylated human tear-fluid DMBT1 isoforms: the major high-molecular-mass glycoproteins in human tears. <i>Biochemical Journal</i> , 2002, 366, 511-520.	3.7	85
56	Glycosylation of sputum mucins is altered in cystic fibrosis patients. <i>Glycobiology</i> , 2007, 17, 698-712.	2.5	85
57	Discrimination of Isomers of Released <i>N</i> - and <i>O</i> -Glycans Using Diagnostic Product Ions in Negative Ion PGC-LC-ESI-MS/MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1194-1209.	2.8	84
58	Glycoproteomics of Milk: Differences in Sugar Epitopes on Human and Bovine Milk Fat Globule Membranes. <i>Journal of Proteome Research</i> , 2008, 7, 3687-3696.	3.7	82
59	The glycosylation of human synovial lubricin: implications for its role in inflammation. <i>Biochemical Journal</i> , 2010, 429, 359-367.	3.7	82
60	Identification of Glycan Structure Alterations on Cell Membrane Proteins in Desoxyepothilone B Resistant Leukemia Cells. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M111.009001.	3.8	81
61	Structural analysis of glycoprotein sialylation – part II: LC-MS based detection. <i>RSC Advances</i> , 2013, 3, 22706.	3.6	81
62	Simple Urinary Sample Preparation for Proteomic Analysis. <i>Journal of Proteome Research</i> , 2006, 5, 2824-2838.	3.7	80
63	Terminal Galactosylation and Sialylation Switching on Membrane Glycoproteins upon TNF-Alpha-Induced Insulin Resistance in Adipocytes. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 141-153.	3.8	80
64	What place for polyacrylamide in proteomics?. <i>Trends in Biotechnology</i> , 2001, 19, S3-S9.	9.3	79
65	GlycoStore: a database of retention properties for glycan analysis. <i>Bioinformatics</i> , 2018, 34, 3231-3232.	4.1	77
66	In-depth <i>N</i> -glycome profiling of paired colorectal cancer and non-tumorigenic tissues reveals cancer-, stage- and EGFR-specific protein N-glycosylation. <i>Glycobiology</i> , 2015, 25, 1064-1078.	2.5	74
67	MALDI imaging mass spectrometry of N-linked glycans on formalin-fixed paraffin-embedded murine kidney. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2127-2139.	3.7	74
68	Emerging roles of protein mannosylation in inflammation and infection. <i>Molecular Aspects of Medicine</i> , 2016, 51, 31-55.	6.4	74
69	Community evaluation of glycoproteomics informatics solutions reveals high-performance search strategies for serum glycopeptide analysis. <i>Nature Methods</i> , 2021, 18, 1304-1316.	19.0	74
70	MUC5B glycosylation in human saliva reflects blood group and secretor status. <i>Glycobiology</i> , 2005, 15, 791-804.	2.5	71
71	Towards a standardized bioinformatics infrastructure for N- and O-glycomics. <i>Nature Communications</i> , 2019, 10, 3275.	12.8	70
72	The minimum information required for a glycomics experiment (MIRAGE) project: improving the standards for reporting glycan microarray-based data. <i>Glycobiology</i> , 2017, 27, 280-284.	2.5	69

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73	Biosimilarity and Interchangeability: Principles and Evidence: A Systematic Review. <i>BioDrugs</i> , 2018, 32, 27-52.	4.6	69
74	High Throughput Peptide Mass Fingerprinting and Protein Macroarray Analysis Using Chemical Printing Strategies. <i>Molecular and Cellular Proteomics</i> , 2002, 1, 490-499.	3.8	66
75	Enabling Sensitive Phenotypic Profiling of Cancer-Derived Small Extracellular Vesicles Using Surface-Enhanced Raman Spectroscopy Nanotags. <i>ACS Sensors</i> , 2020, 5, 764-771.	7.8	66
76	N-Glycans Modulate the Function of Human Corticosteroid-Binding Globulin. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M111.009100.	3.8	65
77	Analysis of O-Linked Reducing Oligosaccharides Released by an In-line Flow System. <i>Analytical Biochemistry</i> , 2002, 305, 173-185.	2.4	63
78	Rat Liver Membrane Glycoproteome: Enrichment by Phase Partitioning and Glycoprotein Capture. <i>Journal of Proteome Research</i> , 2009, 8, 770-781.	3.7	63
79	Standardization of PGC-LC-MS-based glycomics for sample specific glycotyping. <i>Analyst</i> , 2019, 144, 3601-3612.	3.5	63
80	Use of graphitised carbon negative ion LC-MS to analyse enzymatically digested glycosaminoglycans. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 824, 139-147.	2.3	62
81	The minimum information required for a glycomics experiment (MIRAGE) project: sample preparation guidelines for reliable reporting of glycomics datasets. <i>Glycobiology</i> , 2016, 26, 907-910.	2.5	62
82	Toolboxes for a standardised and systematic study of glycans. <i>BMC Bioinformatics</i> , 2014, 15, S9.	2.6	58
83	Validation of the curation pipeline of UniCarb-DB: Building a global glycan reference MS/MS repository. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 108-116.	2.3	58
84	Comprehensive glycomics comparison between colon cancer cell cultures and tumours: Implications for biomarker studies. <i>Journal of Proteomics</i> , 2014, 108, 146-162.	2.4	57
85	Paucimannose-Rich N-glycosylation of Spatiotemporally Regulated Human Neutrophil Elastase Modulates Its Immune Functions*. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 1507-1527.	3.8	57
86	UniCarbKB: Putting the pieces together for glycomics research. <i>Proteomics</i> , 2011, 11, 4117-4121.	2.2	55
87	Analyzing glycoproteins separated by two-dimensional gel electrophoresis. <i>Electrophoresis</i> , 1998, 19, 981-988.	2.4	53
88	Protein Paucimannosylation Is an Enriched N-Glycosylation Signature of Human Cancers. <i>Proteomics</i> , 2019, 19, e1900010.	2.2	52
89	Glycobiology and proteomics: Is mass spectrometry the holy grail?. <i>Electrophoresis</i> , 1998, 19, 1872-1882.	2.4	51
90	Graphitized Carbon LC-MS Characterization of the Chondroitin Sulfate Oligosaccharides of Aggrecan. <i>Analytical Chemistry</i> , 2007, 79, 3597-3606.	6.5	51

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91	3D sub-diffraction imaging in a conventional confocal configuration by exploiting super-linear emitters. <i>Nature Communications</i> , 2019, 10, 3695.	12.8	51
92	Differential Site Accessibility Mechanistically Explains Subcellular-Specific N-Glycosylation Determinants. <i>Frontiers in Immunology</i> , 2014, 5, 404.	4.8	50
93	Complementary LC-MS/MS-Based N-Glycan, N-Glycopeptide, and Intact N-Glycoprotein Profiling Reveals Unconventional Asn71-Glycosylation of Human Neutrophil Cathepsin G. <i>Biomolecules</i> , 2015, 5, 1832-1854.	4.0	49
94	The Importance of Protein Co- and Post-Translational Modifications in Proteome Projects. <i>Principles and Practice</i> , 1997, , 65-91.	0.3	49
95	Mucin glycosylation changes in cystic fibrosis lung disease are not manifest in submucosal gland secretions. <i>Biochemical Journal</i> , 2005, 387, 911-919.	3.7	48
96	New urinary EPO drug testing method using two-dimensional gel electrophoresis. <i>Clinica Chimica Acta</i> , 2005, 358, 119-130.	1.1	48
97	Production of active human glucocerebrosidase in seeds of <i>Arabidopsis thaliana</i> complex-glycan-deficient (cgl) plants. <i>Glycobiology</i> , 2012, 22, 492-503.	2.5	48
98	Comparative Proteomics and Glycoproteomics Reveal Increased N-Linked Glycosylation and Relaxed Sequon Specificity in <i>Campylobacter jejuni</i> NCTC11168 O. <i>Journal of Proteome Research</i> , 2014, 13, 5136-5150.	3.7	48
99	Cereal products derived from wheat, sorghum, rice and oats alter the infant gut microbiota in vitro. <i>Scientific Reports</i> , 2017, 7, 14312.	3.3	48
100	Reduced background autofluorescence for cell imaging using nanodiamonds and lanthanide chelates. <i>Scientific Reports</i> , 2018, 8, 4521.	3.3	48
101	Glycomics@ExPASy: Bridging the Gap. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 2164-2176.	3.8	48
102	MALDI Mass Spectrometry Imaging of Early and Late Stage Serous Ovarian Cancer Tissue Reveals Stage-Specific <i>N</i> -Glycans. <i>Proteomics</i> , 2019, 19, e1800482.	2.2	47
103	Introducing glycomics data into the Semantic Web. <i>Journal of Biomedical Semantics</i> , 2013, 4, 39.	1.6	46
104	Structural analysis of glycoprotein sialylation – Part I: pre-LC-MS analytical strategies. <i>RSC Advances</i> , 2013, 3, 22683.	3.6	46
105	High-performance liquid chromatography of diglyceride p-nitrobenzoates. <i>Journal of Chromatography A</i> , 1980, 198, 520-525.	3.7	45
106	Challenges of Determining O-Glycopeptide Heterogeneity: A Fungal Glucanase Model System. <i>Analytical Chemistry</i> , 2010, 82, 3500-3509.	6.5	44
107	Host mucin glycosylation plays a role in bacterial adhesion in lungs of individuals with cystic fibrosis. <i>Expert Review of Respiratory Medicine</i> , 2013, 7, 553-576.	2.5	44
108	Databases and Associated Tools for Glycomics and Glycoproteomics. <i>Methods in Molecular Biology</i> , 2017, 1503, 235-264.	0.9	44

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109	Proteome analysis of glycoforms: A review of strategies for the microcharacterisation of glycoproteins separated by two-dimensional polyacrylamide gel electrophoresis. <i>Electrophoresis</i> , 1997, 18, 452-460.	2.4	43
110	The Lectin Riddle: Glycoproteins Fractionated from Complex Mixtures Have Similar Glycomic Profiles. <i>OMICS A Journal of Integrative Biology</i> , 2010, 14, 487-499.	2.0	43
111	Relative versus absolute quantitation in disease glycomics. <i>Proteomics - Clinical Applications</i> , 2015, 9, 368-382.	1.6	43
112	MALDI mass spectrometry imaging of N-glycans on tibial cartilage and subchondral bone proteins in knee osteoarthritis. <i>Proteomics</i> , 2016, 16, 1736-1741.	2.2	43
113	Post-Column Make-Up Flow (PCMF) Enhances the Performance of Capillary-Flow PGC-LC-MS/MS-Based Glycomics. <i>Analytical Chemistry</i> , 2019, 91, 4559-4567.	6.5	42
114	Analytical studies of lipopolysaccharide and its derivatives from Salmonella minnesota R595. I. Phosphorus magnetic resonance spectra. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1985, 821, 179-194.	2.6	41
115	Site-specific characterisation of densely O-glycosylated mucin-type peptides using electron transfer dissociation ESI-MS/MS. <i>Electrophoresis</i> , 2011, 32, 3536-3545.	2.4	41
116	The glycosphingolipid P1 is an ovarian cancer-associated carbohydrate antigen involved in migration. <i>British Journal of Cancer</i> , 2014, 111, 1634-1645.	6.4	40
117	SugarBindDB, a resource of glycan-mediated host-pathogen interactions. <i>Nucleic Acids Research</i> , 2016, 44, D1243-D1250.	14.5	40
118	Comprehensive N-Glycome Profiling of Cultured Human Epithelial Breast Cells Identifies Unique Secretome N-Glycosylation Signatures Enabling Tumorigenic Subtype Classification. <i>Journal of Proteome Research</i> , 2014, 13, 4783-4795.	3.7	39
119	Development of a data independent acquisition mass spectrometry workflow to enable glycopeptide analysis without predefined glycan compositional knowledge. <i>Journal of Proteomics</i> , 2018, 172, 68-75.	2.4	39
120	Light-independent accumulation of chlorophyll a and b and protochlorophyllide in green barley ( <i>Hordeum vulgare</i> ). <i>Physiologia Plantarum</i> , 1985, 64, 345-352.	5.2	38
121	Liver Membrane Proteome Glycosylation Changes in Mice Bearing an Extra-hepatic Tumor. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M900538-MCP200.	3.8	38
122	Cystic fibrosis and bacterial colonization define the sputum N-glycosylation phenotype. <i>Glycobiology</i> , 2015, 25, 88-100.	2.5	38
123	Glycomic characterization of basal tears and changes with diabetes and diabetic retinopathy. <i>Glycobiology</i> , 2015, 25, 269-283.	2.5	38
124	Site-Specific N-Glycosylation of Recombinant Pentameric and Hexameric Human IgM. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1143-1155.	2.8	38
125	Genetically and Phenotypically Distinct <i>Pseudomonas aeruginosa</i> Cystic Fibrosis Isolates Share a Core Proteomic Signature. <i>PLoS ONE</i> , 2015, 10, e0138527.	2.5	37
126	Molecular analysis of the phospholipids of <i>Escherichia coli</i> K12. <i>Lipids and Lipid Metabolism</i> , 1982, 710, 400-405.	2.6	36



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127	Characterisation of the slime gland secretion from the peripatus, <i>Euperipatoides kanangrensis</i> (Onychophora: Peripatopsidae). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1999, 124, 457-465.	1.6	36
128	The elimination of O-linked glycans from glycoproteins under non-reducing conditions. <i>Glycoconjugate Journal</i> , 1994, 11, 163-167.	2.7	35
129	Tandem mass spectra of glycan substructures enable the multistage mass spectrometric identification of determinants on oligosaccharides. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 931-939.	1.5	35
130	Modification of Asparagine-Linked Glycan Density for the Design of Hepatitis B Virus Virus-Like Particles with Enhanced Immunogenicity. <i>Journal of Virology</i> , 2015, 89, 11312-11322.	3.4	35
131	Transition of Mesenchymal and Epithelial Cancer Cells Depends on $\beta$ 1-4 Galactosyltransferase-Mediated Glycosphingolipids. <i>Cancer Research</i> , 2018, 78, 2952-2965.	0.9	35
132	A platform for the structural characterization of glycans enzymatically released from glycosphingolipids extracted from tissue and cells. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 545-561.	1.5	34
133	Quantitative proteomic analysis of paired colorectal cancer and non-tumorigenic tissues reveals signature proteins and perturbed pathways involved in CRC progression and metastasis. <i>Journal of Proteomics</i> , 2015, 126, 54-67.	2.4	34
134	A Novel Post-translational Modification in Nerve Terminals: O-Linked N-Acetylglucosamine Phosphorylation. <i>Journal of Proteome Research</i> , 2011, 10, 2725-2733.	3.7	33
135	Micro- and macroheterogeneity of N-glycosylation yields size and charge isoforms of human sex hormone binding globulin circulating in serum. <i>Proteomics</i> , 2012, 12, 3315-3327.	2.2	33
136	Human disease glycomics: technology advances enabling protein glycosylation analysis – part 1. <i>Expert Review of Proteomics</i> , 2018, 15, 165-182.	3.0	32
137	The use of solid-phase extraction with graphitised carbon for the fractionation and purification of sugars. <i>Carbohydrate Research</i> , 1999, 319, 74-79.	2.3	31
138	Configurations of glycosidic phosphates of lipopolysaccharide from <i>Salmonella minnesota</i> R595. <i>Biochemistry</i> , 1982, 21, 6580-6586.	2.5	30
139	Periconception onset diabetes is associated with embryopathy and fetal growth retardation, reproductive tract hyperglycosylation and impaired immune adaptation to pregnancy. <i>Scientific Reports</i> , 2018, 8, 2114.	3.3	30
140	Understanding cellular glycan surfaces in the central nervous system. <i>Biochemical Society Transactions</i> , 2019, 47, 89-100.	3.4	30
141	The <i>Dictyostelium discoideum</i> proteome - the SWISS-2DPAGE database of the multicellular aggregate (slug). <i>Electrophoresis</i> , 1997, 18, 491-497.	2.4	29
142	GlycoDigest: a tool for the targeted use of exoglycosidase digestions in glycan structure determination. <i>Bioinformatics</i> , 2014, 30, 3131-3133.	4.1	29
143	BOLD – A biological O-linked glycan database. <i>Electrophoresis</i> , 1999, 20, 3589-3598.	2.4	28
144	Comprehensive analysis of the N-glycan biosynthetic pathway using bioinformatics to generate UniCorn: A theoretical N-glycan structure database. <i>Carbohydrate Research</i> , 2016, 431, 56-63.	2.3	28

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145	<i>Pseudomonas aeruginosa</i> Cell Membrane Protein Expression from Phenotypically Diverse Cystic Fibrosis Isolates Demonstrates Host-Specific Adaptations. <i>Journal of Proteome Research</i> , 2016, 15, 2152-2163.	3.7	28
146	Recombinant human heterodimeric IL-15 complex displays extensive and reproducible N- and O-linked glycosylation. <i>Glycoconjugate Journal</i> , 2016, 33, 417-433.	2.7	28
147	Glycan involvement in the adhesion of <i>Pseudomonas aeruginosa</i> to tears. <i>Experimental Eye Research</i> , 2016, 145, 278-288.	2.6	28
148	The GlySpace Alliance: toward a collaborative global glycoinformatics community. <i>Glycobiology</i> , 2020, 30, 70-71.	2.5	28
149	Glycosylation of acetylxyylan esterase from <i>Trichoderma reesei</i> . <i>Glycobiology</i> , 2002, 12, 291-298.	2.5	27
150	Combined N-Glycome and N-Glycoproteome Analysis of the <i>Lotus japonicus</i> Seed Globulin Fraction Shows Conservation of Protein Structure and Glycosylation in Legumes. <i>Journal of Proteome Research</i> , 2013, 12, 3383-3392.	3.7	27
151	Sensitive Time-Gated Immunoluminescence Detection of Prostate Cancer Cells Using a TEGylated Europium Ligand. <i>Analytical Chemistry</i> , 2016, 88, 9564-9571.	6.5	27
152	Asn347 Glycosylation of Corticosteroid-binding Globulin Fine-tunes the Host Immune Response by Modulating Proteolysis by <i>Pseudomonas aeruginosa</i> and Neutrophil Elastase. <i>Journal of Biological Chemistry</i> , 2016, 291, 17727-17742.	3.4	27
153	UniCarbKB: New database features for integrating glycan structure abundance, compositional glycoproteomics data, and disease associations. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 1669-1675.	2.4	27
154	Recombinant Prespore-Specific Antigen from <i>Dictyostelium discoideum</i> is a beta-sheet Glycoprotein with a Spacer Peptide Modified by O-linked N-acetylglucosamine. <i>FEBS Journal</i> , 1996, 238, 511-518.	0.2	26
155	Identification and quantitation of cysteine in proteins separated by gel electrophoresis. <i>Journal of Chromatography A</i> , 1998, 813, 187-200.	3.7	25
156	Production of $\beta$ -L-iduronidase in maize for the potential treatment of a human lysosomal storage disease. <i>Nature Communications</i> , 2012, 3, 1062.	12.8	25
157	Influence of an ER-retention signal on the N-glycosylation of recombinant human $\beta$ -L-iduronidase generated in seeds of <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , 2012, 79, 157-169.	3.9	25
158	Stable Upconversion Nanohybrid Particles for Specific Prostate Cancer Cell Immunodetection. <i>Scientific Reports</i> , 2016, 6, 37533.	3.3	25
159	Comparison of analytical methods for profiling N- and O-linked glycans from cultured cell lines. <i>Glycoconjugate Journal</i> , 2016, 33, 405-415.	2.7	25
160	<i>in situ</i> Glycan matrix-assisted laser desorption/ionization mass spectrometry imaging protocol for formalin-fixed paraffin-embedded tissues. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 825-841.	1.5	25
161	Blood Group Antigen Recognition via the Group A Streptococcal M Protein Mediates Host Colonization. <i>MBio</i> , 2017, 8, .	4.1	25
162	Fiber Supplements Derived From Sugarcane Stem, Wheat Dextrin and Psyllium Husk Have Different In Vitro Effects on the Human Gut Microbiota. <i>Frontiers in Microbiology</i> , 2018, 9, 1618.	3.5	25

#	ARTICLE	IF	CITATIONS
163	The Hitchhiker's guide to glycoproteomics. <i>Biochemical Society Transactions</i> , 2021, 49, 1643-1662.	3.4	25
164	Changes in dietary fiber intake in mice reveal associations between colonic mucin <i>O</i>-glycosylation and specific gut bacteria. <i>Gut Microbes</i> , 2020, 12, 1802209.	9.8	25
165	Tissue glycomics distinguish tumour sites in women with advanced serous adenocarcinoma. <i>Molecular Oncology</i> , 2017, 11, 1595-1615.	4.6	24
166	Human disease glycomics: technology advances enabling protein glycosylation analysis â€“ part 2. <i>Expert Review of Proteomics</i> , 2018, 15, 341-352.	3.0	24
167	Rules for the addition of O-linked N-acetylglucosamine to secreted proteins in <i>Dictyostelium discoideum</i> . In vivo studies on glycosylation of mucin MUC1 and MUC2 repeats. <i>FEBS Journal</i> , 1998, 253, 517-524.	0.2	23
168	An optimized approach for enrichment of glycoproteins from cell culture lysates using native multiâ€lectin affinity chromatography. <i>Journal of Separation Science</i> , 2012, 35, 2445-2452.	2.5	23
169	Chloroplast development and the synthesis of chlorophyll and protochlorophyllide in <i>Zostera</i> transferred to darkness. <i>Planta</i> , 1985, 165, 469-476.	3.2	21
170	Characterization of Human Plasma Glycoproteins Separated by Two-Dimensional Gel Electrophoresis. <i>Nature Biotechnology</i> , 1996, 14, 66-70.	17.5	21
171	Proteomic Analysis of the Genetic Premature Aging Disease Hutchinson Gilford Progeria Syndrome Reveals Differential Protein Expression and Glycosylation. <i>Journal of Proteome Research</i> , 2003, 2, 556-557.	3.7	21
172	Relative quantitation of multi-antennary N-glycan classes: combining PGC-LC-ESI-MS with exoglycosidase digestion. <i>Analyst</i> , The, 2015, 140, 5444-5449.	3.5	21
173	Desialylated LDL uptake in human and mouse macrophages can be mediated by a lectin receptor. <i>Atherosclerosis</i> , 1996, 121, 151-163.	0.8	19
174	Comparing the chemical composition of dietary fibres prepared from sugarcane, psyllium husk and wheat dextrin. <i>Food Chemistry</i> , 2019, 298, 125032.	8.2	19
175	Glycomics & Glycoproteomics: From Analytics to Function. <i>Molecular Omics</i> , 2021, 17, 8-10.	2.8	19
176	Glycoprotein Detection of 2-D Separated Proteins. , 1999, 112, 341-352.		18
177	Characterization and downstream mannose phosphorylation of human recombinant Î±â€L</sc>â€duronidase produced in <sc>A</sc>rabidopsis <i>complex glycanâ€deficient</i> (<i>cgl</i>) seeds. <i>Plant Biotechnology Journal</i> , 2013, 11, 1034-1043.	8.3	18
178	Incorporation of 5-aminolevulinic acid into chlorophyll in darkness in barley. <i>Physiologia Plantarum</i> , 1986, 68, 222-230.	5.2	17
179	An in Vivo Approach for the Identification of Acceptor Sites for O-Glycosyltransferases:â€‰ Motifs for the Addition of O-GlcNAc in <i>Dictyostelium discoideum</i> . <i>Biochemistry</i> , 1997, 36, 4034-4040.	2.5	17
180	FKRP-dependent glycosylation of fibronectin regulates muscle pathology in muscular dystrophy. <i>Nature Communications</i> , 2021, 12, 2951.	12.8	17

#	ARTICLE	IF	CITATIONS
181	Analysis of mucosal mucins separated by SDS-urea agarose polyacrylamide composite gel electrophoresis. <i>Electrophoresis</i> , 2011, 32, 3554-3563.	2.4	15
182	<i>FUT1</i> genetic variants impact protein glycosylation of porcine intestinal mucosa. <i>Glycobiology</i> , 2016, 26, 607-622.	2.5	15
183	Influence of surface chemistry on the formation of a protein corona on nanodiamonds. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3383-3389.	5.8	15
184	GlycoViewer: a tool for visual summary and comparative analysis of the glycome. <i>Nucleic Acids Research</i> , 2010, 38, W667-W670.	14.5	14
185	Specific Sialoforms Required for the Immune Suppressive Activity of Human Soluble CD52. <i>Frontiers in Immunology</i> , 2019, 10, 1967.	4.8	14
186	Translating Glycan Analytical Applications into Clinical Strategies for Ovarian Cancer. <i>Proteomics - Clinical Applications</i> , 2019, 13, e1800099.	1.6	14
187	Altered N-linked glycosylation in endometrial cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 2721-2733.	3.7	14
188	Effect of Tween 80 on the Morphology of <i>Trigonopsis variabilis</i> . <i>Journal of General Microbiology</i> , 1977, 101, 233-236.	2.3	13
189	High sample throughput phosphoamino acid analysis of proteins separated by one- and two-dimensional gel electrophoresis. <i>Journal of Chromatography A</i> , 1997, 764, 201-210.	3.7	13
190	The highly O-glycosylated glycoprotein gp2 of equine herpesvirus 1 is encoded by gene 71. <i>Journal of Virology</i> , 1996, 70, 8195-8198.	3.4	13
191	Enhancing structural characterisation of glucuronidated O-linked glycans using negative mode ion trap higher energy collision-induced dissociation mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2017, 31, 851-858.	1.5	12
192	Immunodetection and photostability of NADPH-protochlorophyllide oxidoreductase in <i>Pinus pinea</i> L.. <i>Photosynthesis Research</i> , 1990, 23, 89-94.	2.9	11
193	Multiple O-Glycoforms on the Spore Coat Protein SP96 in <i>Dictyostelium discoideum</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 12164-12174.	3.4	11
194	The effect of streptozotocin-induced hyperglycemia on N-and O-linked protein glycosylation in mouse ovary. <i>Glycobiology</i> , 2018, 28, 832-840.	2.5	11
195	Light-Emitting Diode Excitation for Upconversion Microscopy: A Quantitative Assessment. <i>Nano Letters</i> , 2020, 20, 8487-8492.	9.1	11
196	The biochemical nature of the cell envelope of a high cellulase-secreting mutant differs from that of the <i>Trichoderma reesei</i> wild type. <i>Journal of Biotechnology</i> , 1995, 42, 53-59.	3.8	10
197	Characterization of N- and O-linked glycosylation changes in milk of the tammar wallaby ( <i>Macropus</i> ) Tj ETQq1 1 0.784314 rgBT / Over	2.7	10
198	Sweating the small stuff: Glycoproteins in human sweat and their unexplored potential for microbial adhesion. <i>Glycobiology</i> , 2015, 26, cwv102.	2.5	10

#	ARTICLE	IF	CITATIONS
199	Targeting cell surface glycans with lectin-coated fluorescent nanodiamonds. <i>Nanoscale Advances</i> , 2022, 4, 1551-1564.	4.6	10
200	Characterisation of individual N-and O-linked glycosylation sites using Edman degradation. <i>Techniques in Protein Chemistry</i> , 1995, 6, 83-90.	0.3	9
201	Blood group antigen expression is involved in <i>C. albicans</i> interaction with buccal epithelial cells. <i>Glycoconjugate Journal</i> , 2017, 34, 31-50.	2.7	9
202	The Fifth ACGG-DB Meeting Report: Towards an International Glycan Structure Repository. <i>Glycobiology</i> , 2013, 23, 1422-1424.	2.5	8
203	Assessing the Role of Pharyngeal Cell Surface Glycans in Group A <i>Streptococcus</i> Biofilm Formation. <i>Antibiotics</i> , 2020, 9, 775.	3.7	8
204	Small-Scale Enzymatic Digestion of Glycoproteins and Proteoglycans for Analysis of Oligosaccharides by LC-MS and FACE Gel Electrophoresis. , 2009, 534, 171-192.		8
205	Polysialic Acid Regulates Sympathetic Outflow by Facilitating Information Transfer within the Nucleus of the Solitary Tract. <i>Journal of Neuroscience</i> , 2017, 37, 6558-6574.	3.6	8
206	Glycoproteome remodeling in MLL-rearranged B-cell precursor acute lymphoblastic leukemia. <i>Theranostics</i> , 2021, 11, 9519-9537.	10.0	8
207	Characterization of a single glycosylated asparagine site on a glycopeptide using solid-phase Edman degradation. <i>Glycoconjugate Journal</i> , 1994, 11, 180-186.	2.7	7
208	The relationship between the structures of the O polysaccharides from <i>Escherichia coli</i> O17 and O16. <i>Carbohydrate Research</i> , 1997, 303, 313-318.	2.3	7
209	Visualizing neuroinflammation with fluorescence and luminescent lanthanide-based in situ hybridization. <i>Journal of Neuroinflammation</i> , 2019, 16, 65.	7.2	7
210	Long-term intrathecal administration of morphine vs. baclofen: Differences in CSF glycoconjugate profiles using multiglycomics. <i>Glycobiology</i> , 2022, 32, 50-59.	2.5	7
211	There Are No Facts, Only Interpretations. <i>Journal of Proteome Research</i> , 2006, 5, 1291-1292.	3.7	6
212	Introducing Glycoproteomics, a new section of PROTEOMICS. <i>Proteomics</i> , 2006, 6, 6121-6123.	2.2	6
213	Rapid and sensitive glycan targeting by lectin-SERS assay. <i>Molecular Omics</i> , 2020, 16, 339-344.	2.8	6
214	Phenotypic profiling of pancreatic ductal adenocarcinoma plasma-derived small extracellular vesicles for cancer diagnosis and cancer stage prediction: a proof-of-concept study. <i>Analytical Methods</i> , 2022, 14, 2255-2265.	2.7	6
215	A Sydney proteome story. <i>Journal of Proteomics</i> , 2014, 107, 13-23.	2.4	5
216	Chemoenzymatic glycan labelling as a platform for site-specific IgM-antibody drug conjugates. <i>Analytical Biochemistry</i> , 2019, 584, 113385.	2.4	5

#	ARTICLE	IF	CITATIONS
217	Human glycan expression patterns influence Group A streptococcal colonization of epithelial cells. <i>FASEB Journal</i> , 2019, 33, 10808-10818.	0.5	5
218	Bisecting GlcNAc Protein N-Glycosylation Is Characteristic of Human Adipogenesis. <i>Journal of Proteome Research</i> , 2021, 20, 1313-1327.	3.7	5
219	Raw N-glycan mass spectrometry imaging data on formalin-fixed mouse kidney. <i>Data in Brief</i> , 2018, 21, 185-188.	1.0	4
220	Time-Gated Luminescent In Situ Hybridization (LISH): Highly Sensitive Detection of Pathogenic <i>Staphylococcus aureus</i> . <i>Molecules</i> , 2019, 24, 2083.	3.8	4
221	Lipopolysaccharide and Morphine-3-Glucuronide-Induced Immune Signalling Increases the Expression of Polysialic Acid in PC12 Cells. <i>Molecular Neurobiology</i> , 2020, 57, 964-975.	4.0	4
222	Purification and Chemical Characterization of the High Molecular Weight Glycoconjugate Fraction of the Bovine Tear Film and Comparison to Mucins from Other Sources. <i>Advances in Experimental Medicine and Biology</i> , 2002, 506, 341-345.	1.6	4
223	Navigating the Glycome Space and Connecting the Glycoproteome. <i>Methods in Molecular Biology</i> , 2017, 1558, 139-158.	0.9	4
224	Assessing the activity of antibodies conjugated to upconversion nanoparticles for immunolabeling. <i>Analytica Chimica Acta</i> , 2022, 1209, 339863.	5.4	4
225	Amino Acid Analysis of Mucins. , 2000, 125, 113-119.		3
226	Differential involvement of glycans in the binding of <i>Staphylococcus epidermidis</i> and <i>Corynebacterium</i> spp. to human sweat. <i>Microbiological Research</i> , 2019, 220, 53-60.	5.3	3
227	A Continuous Culture Method for Obtaining 100% Triangular Cells of <i>Trigonopsis variabilis</i> . <i>Journal of General Microbiology</i> , 1978, 107, 377-379.	2.3	3
228	DATA STANDARDISATION IN GLYCOSUITEDB. , 2001, , 297-309.		3
229	Reply by the authors to "New urinary EPO drug testing method using two-dimensional gel electrophoresis". <i>Clinica Chimica Acta</i> , 2006, 373, 188.	1.1	2
230	Detection of Glycoproteins in Gels and Blots. <i>Springer Protocols</i> , 2009, , 555-568.	0.3	2
231	Multidimensional Fractionation Is a Requirement for Quantitation of Golgi-Resident Glycosylation Enzymes from Cultured Human Cells. <i>Journal of Proteome Research</i> , 2015, 14, 747-755.	3.7	2
232	Enzymatic Azido-GalNAc-Functionalized Silk Fibroin for Click Chemistry Conjugation. <i>Biomacromolecules</i> , 2021, 22, 1752-1755.	5.4	2
233	Identification and Characterization of Glycosylated Phenylthiohydantoin Amino Acids. , 1995, , 69-80.		2
234	Exploring the UniCarbKB Database. , 2017, , 197-214.		2

#	ARTICLE	IF	CITATIONS
235	SugarBindDB. , 2017, , 247-260.		2
236	GlycoBioinformatics. Beilstein Journal of Organic Chemistry, 2021, 17, 2726-2728.	2.2	2
237	Analytical studies of lipopolysaccharide and its derivatives from Salmonella minnesota R595. II. Proton and carbon magnetic resonance spectra. Biochimica Et Biophysica Acta - Biomembranes, 1985, 821, 195-204.	2.6	1
238	Glycomic Mass Spectrometric Analysis and Data Interpretation Tools. , 0, , 223-256.		1
239	Letter to the Glycoforum Transforming Glycoscience: An Australian Perspective. Glycobiology, 2014, 24, 1-3.	2.5	1
240	Interaction between Polysialic Acid and the MARCKS-ED Peptide at the Molecular Level. ACS Chemical Neuroscience, 2020, 11, 1944-1954.	3.5	1
241	SugarBindDB, a Resource of Pathogen Lectin-Glycan Interactions. , 2014, , 1-7.		1
242	UniCarbKB: Emergent Knowledgebase for Glycomics. , 2015, , 215-222.		1
243	Evidence for a Light-Independent Chlorophyll Biosynthetic Pathway in Angiosperm Seeds Germinated in Darkness. , 1990, , 2593-2596.		1
244	Predicting Glycan Composition from Experimental Mass Using GlycoMod. , 2003, , 225-231.		1
245	SugarBindDB, a Resource of Pathogen Lectin-Glycan Interactions. , 2014, , 1-6.		1
246	Lipids and the morphogenesis of Trigonopsis variabilis. FEMS Microbiology Letters, 1981, 12, 135-138.	1.8	0
247	Analysis of Lipid A from Salmonella minnesota R595 Lipopolysaccharide by Chemical Methods and Nuclear Magnetic Resonance. Clinical Infectious Diseases, 1984, 6, 449-451.	5.8	0
248	An Interactive View of Glycosylation. Methods in Molecular Biology, 2022, 2370, 41-65.	0.9	0
249	Enrichment and Analysis of Glycoproteins in the Proteome. , 2005, , 345-359.		0
250	UniCarbKB: An Emergent Knowledge Base for Glycomics. , 2014, , 1-7.		0
251	SugarBindDB SugarBindDB : Resource of Pathogen Pathogen Lectin-Glycan Interactions Lectin-glycan interactions. , 2015, , 275-282.		0
252	Glyco-scope into the Role of Protein Glycosylation in the Female Reproductive Tract. Trends in Glycoscience and Glycotechnology, 2020, 32, E53-E61.	0.1	0

#	ARTICLE	IF	CITATIONS
253	Membrane glycome is impacted by the cell culturing mode of neuroblastoma cells with differing migration and invasion potential. <i>Glycobiology</i> , 2022, , .	2.5	0