

Stuart M Haslam

List of Publications by Year in descending order

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111
papers

8,765
citations

47006

47
h-index

45317

90
g-index

115
all docs

115
docs citations

115
times ranked

10225
citing authors

#	ARTICLE	IF	CITATIONS
1	GlycoWorkbench: A Tool for the Computer-Assisted Annotation of Mass Spectra of Glycans. <i>Journal of Proteome Research</i> , 2008, 7, 1650-1659.	3.7	917
2	N-Linked Glycosylation in <i>Campylobacter jejuni</i> and Its Functional Transfer into <i>E. coli</i> . <i>Science</i> , 2002, 298, 1790-1793.	12.6	716
3	Host and viral determinants of influenza A virus species specificity. <i>Nature Reviews Microbiology</i> , 2019, 17, 67-81.	28.6	390
4	Global metabolic inhibitors of sialyl- and fucosyltransferases remodel the glycome. <i>Nature Chemical Biology</i> , 2012, 8, 661-668.	8.0	347
5	Glycolipids as Receptors for <i>Bacillus thuringiensis</i> Crystal Toxin. <i>Science</i> , 2005, 307, 922-925.	12.6	316
6	A study of fucoidan from the brown seaweed <i>Chorda filum</i> . <i>Carbohydrate Research</i> , 1999, 320, 108-119.	2.3	289
7	Human Sperm Binding Is Mediated by the Sialyl-Lewis ^x Oligosaccharide on the Zona Pellucida. <i>Science</i> , 2011, 333, 1761-1764.	12.6	278
8	Mass spectrometry in the analysis of N-linked and O-linked glycans. <i>Current Opinion in Structural Biology</i> , 2009, 19, 498-506.	5.7	212
9	Glycomic Analysis of Human Respiratory Tract Tissues and Correlation with Influenza Virus Infection. <i>PLoS Pathogens</i> , 2013, 9, e1003223.	4.7	209
10	Glycomics Profiling of Chinese Hamster Ovary Cell Glycosylation Mutants Reveals N-Glycans of a Novel Size and Complexity. <i>Journal of Biological Chemistry</i> , 2010, 285, 5759-5775.	3.4	188
11	A focused microarray approach to functional glycomics: transcriptional regulation of the glycome. <i>Glycobiology</i> , 2006, 16, 117-131.	2.5	161
12	Hypomorphic homozygous mutations in phosphoglucomutase 3 (PGM3) impair immunity and increase serum IgE levels. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, 1410-1419.e13.	2.9	160
13	Glycan family analysis for deducing N-glycan topology from single MS. <i>Bioinformatics</i> , 2009, 25, 365-371.	4.1	145
14	<i>Haemonchus contortus</i> Glycoproteins Contain N-Linked Oligosaccharides with Novel Highly Fucosylated Core Structures. <i>Journal of Biological Chemistry</i> , 1996, 271, 30561-30570.	3.4	141
15	Comparison of Methods for Profiling O-Glycosylation. <i>Molecular and Cellular Proteomics</i> , 2010, 9, 719-727.	3.8	136
16	The GlycanBuilder: a fast, intuitive and flexible software tool for building and displaying glycan structures. <i>Source Code for Biology and Medicine</i> , 2007, 2, 3.	1.7	134
17	Structural Analysis of Sequences O-Linked to Mannose Reveals a Novel Lewis X Structure in Cranin (Dystroglycan) Purified from Sheep Brain. <i>Journal of Biological Chemistry</i> , 1998, 273, 23698-23703.	3.4	121
18	Dendritic Cell Maturation Results in Pronounced Changes in Glycan Expression Affecting Recognition by Siglecs and Galectins. <i>Journal of Immunology</i> , 2007, 179, 8216-8224.	0.8	117

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19	EUROCarbDB: An open-access platform for glycoinformatics. <i>Glycobiology</i> , 2011, 21, 493-502.	2.5	116
20	The Minimum Information Required for a Glycomics Experiment (MIRAGE) Project: Improving the Standards for Reporting Mass-spectrometry-based Glycoanalytic Data. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 991-995.	3.8	109
21	Mass spectrometric analysis of N- and O-glycosylation of tissues and cells. <i>Current Opinion in Structural Biology</i> , 2006, 16, 584-591.	5.7	106
22	The Antifungal Drug Itraconazole Inhibits Vascular Endothelial Growth Factor Receptor 2 (VEGFR2) Glycosylation, Trafficking, and Signaling in Endothelial Cells. <i>Journal of Biological Chemistry</i> , 2011, 286, 44045-44056.	3.4	100
23	Regulated and aberrant glycosylation modulate cardiac electrical signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16517-16522.	7.1	99
24	Structural Studies of N-Glycans of Filarial Parasites. <i>Journal of Biological Chemistry</i> , 1999, 274, 20953-20960.	3.4	97
25	Glycan Analysis and Influenza A Virus Infection of Primary Swine Respiratory Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2010, 285, 34016-34026.	3.4	96
26	Characterisation of the phosphorylcholine-containing N-linked oligosaccharides in the excretory-secretory 62 kDa glycoprotein of <i>Acanthocheilonema viteae</i> . <i>Molecular and Biochemical Parasitology</i> , 1997, 85, 53-66.	1.1	95
27	Histo-Blood Group Antigens Act as Attachment Factors of Rabbit Hemorrhagic Disease Virus Infection in a Virus Strain-Dependent Manner. <i>PLoS Pathogens</i> , 2011, 7, e1002188.	4.7	94
28	Structural analysis of laminarans by MALDI and FAB mass spectrometry. <i>Carbohydrate Research</i> , 1998, 310, 203-210.	2.3	87
29	Systemic Blockade of Sialylation in Mice with a Global Inhibitor of Sialyltransferases. <i>Journal of Biological Chemistry</i> , 2014, 289, 35149-35158.	3.4	85
30	Glycomic Characterization of Respiratory Tract Tissues of Ferrets. <i>Journal of Biological Chemistry</i> , 2014, 289, 28489-28504.	3.4	82
31	Glycoproteomics: Past, present and future. <i>FEBS Letters</i> , 2009, 583, 1728-1735.	2.8	79
32	G6PC3 mutations are associated with a major defect of glycosylation: a novel mechanism for neutrophil dysfunction. <i>Glycobiology</i> , 2011, 21, 914-924.	2.5	78
33	Methylated glycans as conserved targets of animal and fungal innate defense. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2787-96.	7.1	74
34	Towards Controlling the Glycoform: A Model Framework Linking Extracellular Metabolites to Antibody Glycosylation. <i>International Journal of Molecular Sciences</i> , 2014, 15, 4492-4522.	4.1	73
35	Immunogenic glycoconjugates implicated in parasitic nematode diseases. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1999, 1455, 353-362.	3.8	72
36	Mapping the complete glycoproteome of virion-derived HIV-1 gp120 provides insights into broadly neutralizing antibody binding. <i>Scientific Reports</i> , 2016, 6, 32956.	3.3	71

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37	ST3Gal-4 is the primary sialyltransferase regulating the synthesis of E-, P-, and L-selectin ligands on human myeloid leukocytes. <i>Blood</i> , 2015, 125, 687-696.	1.4	70
38	Structural characterisation of neutrophil glycans by ultra sensitive mass spectrometric glycomics methodology. <i>Glycoconjugate Journal</i> , 2009, 26, 975-986.	2.7	68
39	DAS181 Inhibits H5N1 Influenza Virus Infection of Human Lung Tissues. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 3935-3941.	3.2	66
40	Peracetylated 4-Fluoro-glucosamine Reduces the Content and Repertoire of N- and O-Glycans without Direct Incorporation. <i>Journal of Biological Chemistry</i> , 2011, 286, 21717-21731.	3.4	59
41	Toolboxes for a standardised and systematic study of glycans. <i>BMC Bioinformatics</i> , 2014, 15, S9.	2.6	58
42	Novel Poly-GalNAc ² 1â€“4GlcNAc (LacdiNAc) and Fucosylated Poly-LacdiNAc N-Glycans from Mammalian Cells Expressing Î²1,4-N-Acetylgalactosaminyltransferase and Î±1,3-Fucosyltransferase. <i>Journal of Biological Chemistry</i> , 2005, 280, 12810-12819.	3.4	57
43	Characterizing the glycome of the mammalian immune system. <i>Immunology and Cell Biology</i> , 2008, 86, 564-573.	2.3	57
44	Metabolic precision labeling enables selective probing of O-linked N-acetylgalactosamine glycosylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25293-25301.	7.1	55
45	Glycomic studies of <i>Drosophila melanogaster</i> embryos. <i>Glycoconjugate Journal</i> , 2006, 23, 345-354.	2.7	52
46	Physiological and glycomic characterization of N-acetylglucosaminyltransferase-IVa and -IVb double deficient mice. <i>Glycobiology</i> , 2010, 20, 485-497.	2.5	51
47	Mass Spectrometric Analysis of Mutant Mice. <i>Methods in Enzymology</i> , 2010, 478, 27-77.	1.0	50
48	The novel core fucosylation of <i>Haemonchus contortus</i> N-glycans is stage specific. <i>Molecular and Biochemical Parasitology</i> , 1998, 93, 143-147.	1.1	49
49	Resistance to <i>Bacillus thuringiensis</i> Toxin in <i>Caenorhabditis elegans</i> from Loss of Fucose. <i>Journal of Biological Chemistry</i> , 2007, 282, 3302-3311.	3.4	49
50	Annotation of Glycomics MS and MS/MS Spectra Using the GlycoWorkbench Software Tool. <i>Methods in Molecular Biology</i> , 2015, 1273, 3-15.	0.9	47
51	The use of surface immobilization of P-selectin glycoprotein ligand-1 on mesenchymal stem cells to facilitate selectin mediated cell tethering and rolling. <i>Biomaterials</i> , 2013, 34, 8213-8222.	11.4	45
52	Competition between Core-2 GlcNAc-transferase and ST6GalNAc-transferase Regulates the Synthesis of the Leukocyte Selectin Ligand on Human P-selectin Glycoprotein Ligand-1. <i>Journal of Biological Chemistry</i> , 2013, 288, 13974-13987.	3.4	44
53	Novel expression of <i>Haemonchus contortus</i> vaccine candidate aminopeptidase H11 using the free-living nematode <i>Caenorhabditis elegans</i> . <i>Veterinary Research</i> , 2013, 44, 111.	3.0	43
54	Early Murine T-lymphocyte Activation Is Accompanied by a Switch from N-Glycolyl- to N-Acetyl-neuraminic Acid and Generation of Ligands for Siglec-E. <i>Journal of Biological Chemistry</i> , 2011, 286, 34522-34532.	3.4	42

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55	XBP1s activation can globally remodel N-glycan structure distribution patterns. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E10089-E10098.	7.1	41
56	Loss of GCNT2/I-branched glycans enhances melanoma growth and survival. Nature Communications, 2018, 9, 3368.	12.8	40
57	Site-specific characterization of SARS-CoV-2 spike glycoprotein receptor-binding domain. Glycobiology, 2021, 31, 181-187.	2.5	40
58	A Novel Pentasaccharide Sequence GlcA(3-sulfate)(Î²1-3)GalNAc(4-sulfate)(Î²1-4)(FucÎ±1-3)GlcA(Î²1-3)GalNAc(4-sulfate) in the Oligosaccharides Isolated from King Crab Cartilage Chondroitin Sulfate K and Its Differential Susceptibility to Chondroitinases and Hyaluronidase. Biochemistry, 1997, 36, 3998-4008.	2.5	39
59	Loss of Effector Function of Human Cytolytic T Lymphocytes Is Accompanied by Major Alterations in N- and O-Glycosylation. Journal of Biological Chemistry, 2012, 287, 11240-11251.	3.4	38
60	Mass spectrometric strategies: providing structural clues for helminth glycoproteins. Trends in Parasitology, 2001, 17, 231-235.	3.3	37
61	Human B Cell Differentiation Is Characterized by Progressive Remodeling of O-Linked Glycans. Frontiers in Immunology, 2018, 9, 2857.	4.8	37
62	Differential immunogenicity and allergenicity of native and recombinant human lactoferrins: Role of glycosylation. European Journal of Immunology, 2013, 43, 170-181.	2.9	36
63	Enhanced Aromatic Sequons Increase Oligosaccharyltransferase Glycosylation Efficiency and Glycan Homogeneity. Chemistry and Biology, 2015, 22, 1052-1062.	6.0	36
64	Glycan biomarkers for Alzheimer disease correlate with Tâ€tau and Pâ€tau in cerebrospinal fluid in subjective cognitive impairment. FEBS Journal, 2020, 287, 3221-3234.	4.7	36
65	Identification of Neutrophil Granule Glycoproteins as Lewisx-containing Ligands Cleared by the Scavenger Receptor C-type Lectin. Journal of Biological Chemistry, 2011, 286, 24336-24349.	3.4	35
66	XBP1s Links the Unfolded Protein Response to the Molecular Architecture of Mature N-Glycans. Chemistry and Biology, 2015, 22, 1301-1312.	6.0	35
67	Software Tool for the Structural Determination of Glycosaminoglycans by Mass Spectrometry. Analytical Chemistry, 2008, 80, 9204-9212.	6.5	33
68	Evidence for Differential Glycosylation of Trophoblast Cell Types. Molecular and Cellular Proteomics, 2016, 15, 1857-1866.	3.8	32
69	Infection of swine <i>ex vivo</i> tissues with avian viruses including H7N9 and correlation with glycomic analysis. Influenza and Other Respiratory Viruses, 2013, 7, 1269-1282.	3.4	30
70	Characterization of the N-linked glycans of adult Trichinella spiralis. Molecular and Biochemical Parasitology, 2000, 109, 171-177.	1.1	28
71	The N-glycolyl form of mouse sialyl Lewis X is recognized by selectins but not by HECA-452 and FH6 antibodies that were raised against human cells. Glycoconjugate Journal, 2009, 26, 511-523.	2.7	28
72	Loss of Î±2-6 sialylation promotes the transformation of synovial fibroblasts into a pro-inflammatory phenotype in arthritis. Nature Communications, 2021, 12, 2343.	12.8	28

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73	Mass spectrometric characterisation of <i>Taenia crassiceps</i> metacestode N-glycans. <i>Molecular and Biochemical Parasitology</i> , 2005, 143, 245-249.	1.1	27
74	Glycomic analysis of human mast cells, eosinophils and basophils. <i>Glycobiology</i> , 2012, 22, 12-22.	2.5	27
75	Thioglycosides Are Efficient Metabolic Decoys of Glycosylation that Reduce Selectin Dependent Leukocyte Adhesion. <i>Cell Chemical Biology</i> , 2018, 25, 1519-1532.e5.	5.2	27
76	Structural characterization of the N-linked glycans from <i>Taenia solium</i> metacestodes. <i>Molecular and Biochemical Parasitology</i> , 2003, 126, 103-107.	1.1	26
77	Serum N-glycome biomarker for monitoring development of DENA-induced hepatocellular carcinoma in rat. <i>Molecular Cancer</i> , 2010, 9, 215.	19.2	26
78	Alterations of serum protein N-glycosylation in two mouse models of chronic liver disease are hepatocyte and not B cell driven. <i>American Journal of Physiology - Renal Physiology</i> , 2011, 300, G833-G842.	3.4	25
79	Discovery of O-Linked Carbohydrate on HIV-1 Envelope and Its Role in Shielding against One Category of Broadly Neutralizing Antibodies. <i>Cell Reports</i> , 2020, 30, 1862-1869.e4.	6.4	25
80	Tumor Biomarker Glycoproteins in the Seminal Plasma of Healthy Human Males Are Endogenous Ligands for DC-SIGN. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.008730.	3.8	24
81	Protein glycosylation in <i>Parelaphostrongylus tenuis</i> —first description of the Gal β 1-3Gal sequence in a nematode. <i>Glycobiology</i> , 2006, 16, 854-862.	2.5	23
82	Simian Immunodeficiency Virus from the Sooty Mangabey and Rhesus Macaque Is Modified with O-Linked Carbohydrate. <i>Journal of Virology</i> , 2011, 85, 582-595.	3.4	23
83	Glycan characterization of pregnancy-specific glycoprotein 1 and its identification as a novel Galectin-1 ligand. <i>Glycobiology</i> , 2020, 30, 895-909.	2.5	21
84	HEK293T cell lines defective for O-linked glycosylation. <i>PLoS ONE</i> , 2017, 12, e0179949.	2.5	21
85	Effects of altered sialic acid biosynthesis on N-linked glycan branching and cell surface interactions. <i>Journal of Biological Chemistry</i> , 2017, 292, 9637-9651.	3.4	19
86	Serum IgA1 shows increased levels of α 2,6-linked sialic acid in breast cancer. <i>Interface Focus</i> , 2019, 9, 20180079.	3.0	18
87	The human fetoe embryonic defense system hypothesis: Twenty years on. <i>Molecular Aspects of Medicine</i> , 2016, 51, 71-88.	6.4	17
88	Characterization of H type 1 and type 1 N-acetylglucosamine glycan epitopes on ovarian cancer specifically recognized by the anti-glycan monoclonal antibody mAb-A4. <i>Journal of Biological Chemistry</i> , 2017, 292, 6163-6176.	3.4	17
89	Altered glycosylation of glycodelin in endometrial carcinoma. <i>Laboratory Investigation</i> , 2020, 100, 1014-1025.	3.7	16
90	Red blood cell mannoses as phagocytic ligands mediating both sickle cell anaemia and malaria resistance. <i>Nature Communications</i> , 2021, 12, 1792.	12.8	16

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91	Polylactosaminoglycan Glycomics: Enhancing the Detection of High-molecular-weight N-glycans in Matrix-assisted Laser Desorption Ionization Time-of-flight Profiles by Matched Filtering. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 996-1004.	3.8	15
92	The mucinous domain of pancreatic carboxyl-ester lipase (CEL) contains core 1/core 2 O-glycans that can be modified by ABO blood group determinants. <i>Journal of Biological Chemistry</i> , 2018, 293, 19476-19491.	3.4	14
93	Profiling of Glycan Receptors for Minute Virus of Mice in Permissive Cell Lines Towards Understanding the Mechanism of Cell Recognition. <i>PLoS ONE</i> , 2014, 9, e86909.	2.5	14
94	Unique, Polyfucosylated Glycanâ€“Receptor Interactions Are Essential for Regeneration of <i>Hydra magnipapillata</i> . <i>ACS Chemical Biology</i> , 2014, 9, 147-155.	3.4	13
95	Global N-linked Glycosylation is Not Significantly Impaired in Myoblasts in Congenital Myasthenic Syndromes Caused by Defective Glutamine-Fructose-6-Phosphate Transaminase 1 (GFPT1). <i>Biomolecules</i> , 2015, 5, 2758-2781.	4.0	13
96	Insights into the hyperglycosylation of human chorionic gonadotropin revealed by glycomics analysis. <i>PLoS ONE</i> , 2020, 15, e0228507.	2.5	13
97	Characterization of the N-glycans of female <i>Angiostrongylus cantonensis</i> worms. <i>Experimental Parasitology</i> , 2016, 166, 137-143.	1.2	12
98	Comparison of the baculovirusâ€“insect cell and <i>Pichia pastoris</i> heterologous systems for the expression of the human tumor suppressor protein RNASET2. <i>Biotechnology and Applied Biochemistry</i> , 2011, 58, 39-49.	3.1	11
99	Role of galectin-glycan circuits in reproduction: from healthy pregnancy to preterm birth (PTB). <i>Seminars in Immunopathology</i> , 2020, 42, 469-486.	6.1	11
100	Efficient inhibition of O-glycan biosynthesis using the hexosamine analog Ac5GalNTGc. <i>Cell Chemical Biology</i> , 2021, 28, 699-710.e5.	5.2	11
101	Analysis of N- and O-Linked Glycosylation: Differential Glycosylation after Rat Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2020, 37, 1954-1962.	3.4	10
102	Glycoengineering Chinese hamster ovary cells: a short history. <i>Biochemical Society Transactions</i> , 2021, 49, 915-931.	3.4	10
103	The Cytotoxicity of Elderberry Ribosome-Inactivating Proteins Is Not Solely Determined by Their Protein Translation Inhibition Activity. <i>PLoS ONE</i> , 2015, 10, e0132389.	2.5	9
104	Towards automation of glycomic profiling of complex biological materials. <i>Glycoconjugate Journal</i> , 2018, 35, 311-321.	2.7	9
105	Major differences in glycosylation and fucosyltransferase expression in low-grade versus high-grade bladder cancer cell lines. <i>Glycobiology</i> , 2021, 31, 1444-1463.	2.5	8
106	Mouse and Human Glycomes. , 2010, , 263-327.		4
107	Measurement of erythrocyte membrane mannoses to assess splenic function. <i>British Journal of Haematology</i> , 2022, , .	2.5	3
108	Vulpeculin: a novel and abundant lipocalin in the urine of the common brushtail possum, <i>Trichosurus vulpecula</i> . <i>Open Biology</i> , 2020, 10, 200218.	3.6	2

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109	Mass Spectrometric Analyses of Cell and Tissue Glycomes. , 2015, , 69-77.		1
110	Human erythrocyte surface fucose expression increases with age and hyperglycemia. Wellcome Open Research, 0, 6, 28.	1.8	0
111	Mass Spectrometric Analyses of Cell and Tissue Glycomes. , 2014, , 1-9.		0