Gunnar C Hansson

List of Publications by Year
in descending order

294 papers	25,720 citations	8208 78 h-index	9605 147 g-index
301 all docs	301 docs citations	301 times ranked	22139 citing authors

#	Article	IF	Citations
1	The inner of the two Muc2 mucin-dependent mucus layers in colon is devoid of bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15064-15069.	3.3	1,657
2	The two mucus layers of colon are organized by the MUC2 mucin, whereas the outer layer is a legislator of hostâ€"microbial interactions. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4659-4665.	3.3	1,084
3	The gastrointestinal mucus system in health and disease. Nature Reviews Gastroenterology and Hepatology, 2013, 10, 352-361.	8.2	1,026
4	The mucus and mucins of the goblet cells and enterocytes provide the first defense line of the gastrointestinal tract and interact with the immune system. Immunological Reviews, 2014, 260, 8-20.	2.8	895
5	Bacteria penetrate the normally impenetrable inner colon mucus layer in both murine colitis models and patients with ulcerative colitis. Gut, 2014, 63, 281-291.	6.1	717
6	Immunological aspects of intestinal mucus and mucins. Nature Reviews Immunology, 2016, 16, 639-649.	10.6	613
7	New developments in goblet cell mucus secretion and function. Mucosal Immunology, 2015, 8, 712-719.	2.7	541
8	The composition of the gut microbiota shapes the colon mucus barrier. EMBO Reports, 2015, 16, 164-177.	2.0	519
9	Bifidobacteria or Fiber Protects against Diet-Induced Microbiota-Mediated Colonic Mucus Deterioration. Cell Host and Microbe, 2018, 23, 27-40.e7.	5.1	477
10	Potential roles of gut microbiome and metabolites in modulating ALS in mice. Nature, 2019, 572, 474-480.	13.7	454
11	A sentinel goblet cell guards the colonic crypt by triggering Nlrp6-dependent Muc2 secretion. Science, 2016, 352, 1535-1542.	6.0	408
12	Composition and functional role of the mucus layers in the intestine. Cellular and Molecular Life Sciences, 2011, 68, 3635-3641.	2.4	404
13	Role of mucus layers in gut infection and inflammation. Current Opinion in Microbiology, 2012, 15, 57-62.	2.3	368
14	Normalization of Host Intestinal Mucus Layers Requires Long-Term Microbial Colonization. Cell Host and Microbe, 2015, 18, 582-592.	5.1	368
15	Quantitative Imaging of Gut Microbiota Spatial Organization. Cell Host and Microbe, 2015, 18, 478-488.	5.1	359
16	Importance and regulation of the colonic mucus barrier in a mouse model of colitis. American Journal of Physiology - Renal Physiology, 2011, 300, G327-G333.	1.6	302
17	Bicarbonate and functional CFTR channel are required for proper mucin secretion and link cystic fibrosis with its mucus phenotype. Journal of Experimental Medicine, 2012, 209, 1263-1272.	4.2	292
18	Bacteria Penetrate the Inner Mucus Layer before Inflammation in the Dextran Sulfate Colitis Model. PLoS ONE, 2010, 5, e12238.	1.1	288

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19	Loss of intestinal core 1â€“derived O-glycans causes spontaneous colitis in mice. Journal of Clinical Investigation, 2011, 121, 1657-1666.	3.9	285
20	Specificity of binding of a strain of uropathogenic Escherichia coli to Gal alpha 1â€”4Gal-containing glycosphingolipids.. Journal of Biological Chemistry, 1985, 260, 8545-8551.	1.6	278
21	Studies of mucus in mouse stomach, small intestine, and colon. I. Gastrointestinal mucus layers have different properties depending on location as well as over the Peyer's patches. American Journal of Physiology - Renal Physiology, 2013, 305, G341-G347.	1.6	275
22	Structural weakening of the colonic mucus barrier is an early event in ulcerative colitis pathogenesis. Gut, 2019, 68, 2142-2151.	6.1	271
23	Calcium and pH-dependent packing and release of the gel-forming MUC2 mucin. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5645-5650.	3.3	265
24	Gel-forming mucins appeared early in metazoan evolution. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16209-16214.	3.3	253
25	Altered O-glycosylation profile of MUC2 mucin occurs in active ulcerative colitis and is associated with increased inflammation. Inflammatory Bowel Diseases, 2011, 17, 2299-2307.	0.9	243
26	Entamoeba histolytica cysteine proteases cleave the MUC2 mucin in its C-terminal domain and dissolve the protective colonic mucus gel. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9298-9303.	3.3	240
27	Autoproteolysis coupled to protein folding in the SEA domain of the membrane-bound MUC1 mucin. Nature Structural and Molecular Biology, 2006, 13, 71-76.	3.6	233
28	A complex, but uniform O-glycosylation of the human MUC2 mucin from colonic biopsies analyzed by nanoLC/MSn. Glycobiology, 2009, 19, 756-766.	1.3	216
29	The ST6GalNAc-I Sialyltransferase Localizes throughout the Golgi and Is Responsible for the Synthesis of the Tumor-associated Sialyl-Tn O-Glycan in Human Breast Cancer. Journal of Biological Chemistry, 2006, 281, 3586-3594.	1.6	210
30	Proteomic Analyses of the Two Mucus Layers of the Colon Barrier Reveal That Their Main Component, the Muc2 Mucin, Is Strongly Bound to the Fcgbp Protein. Journal of Proteome Research, 2009, 8, 3549-3557.	1.8	188
31	Mucins and the Microbiome. Annual Review of Biochemistry, 2020, 89, 769-793.	5.0	184
32	An ex vivo method for studying mucus formation, properties, and thickness in human colonic biopsies and mouse small and large intestinal explants. American Journal of Physiology - Renal Physiology, 2012, 302, G430-G438.	1.6	181
33	Colitogenic Bacteroides thetaiotaomicron Antigens Access Host Immune Cells in a Sulfatase-Dependent Manner via Outer Membrane Vesicles. Cell Host and Microbe, 2015, 17, 672-680.	5.1	179
34	The inner of the two Muc2 mucin-dependent mucus layers in colon is devoid of bacteria. Gut Microbes, 2010, 1, 51-54.	4.3	173
35	Carbohydrate-specific adhesion of bacteria to thin-layer chromatograms: A rationalized approach to the study of host cell glycolipid receptors. Analytical Biochemistry, 1985, 146, 158-163.	1.1	170
36	The N Terminus of the MUC2 Mucin Forms Trimers That Are Held Together within a Trypsin-resistant Core Fragment. Journal of Biological Chemistry, 2002, 277, 47248-47256.	1.6	166

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37	Receptor analogs and monoclonal antibodies that inhibit adherence of Bordetella pertussis to human ciliated respiratory epithelial cells.. Journal of Experimental Medicine, 1988, 168, 267-277.	4.2	159
38	Microbial-induced meprin Î² cleavage in MUC2 mucin and a functional CFTR channel are required to release anchored small intestinal mucus. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12396-12401.	3.3	159
39	Large Scale Identification of Proteins, Mucins, and Their O-Glycosylation in the Endocervical Mucus during the Menstrual Cycle. Molecular and Cellular Proteomics, 2007, 6, 708-716.	2.5	156
40	Structures of blood group glycosphingolipids of human small intestine. A relation between the expression of fucolipids of epithelial cells and the ABO, Le and Se phenotype of the donor.. Journal of Biological Chemistry, 1987, 262, 6758-6765.	1.6	156
41	Mouse monoclonal antibodies against human cancer cell lines with specificities for blood group and related antigens. Characterization by antibody binding to glycosphingolipids in a chromatogram binding assay.. Journal of Biological Chemistry, 1983, 258, 4091-4097.	1.6	154
42	Studies of mucus in mouse stomach, small intestine, and colon. III. Gastrointestinal Muc5ac and Muc2 mucin<i>O</i>-glycan patterns reveal a regiospecific distribution. American Journal of Physiology - Renal Physiology, 2013, 305, G357-G363.	1.6	153
43	An intercrypt subpopulation of goblet cells is essential for colonic mucus barrier function. Science, 2021, 372, .	6.0	144
44	Preservation of Mucus in Histological Sections, Immunostaining of Mucins in Fixed Tissue, and Localization of Bacteria with FISH. Methods in Molecular Biology, 2012, 842, 229-235.	0.4	142
45	Mouse monoclonal antibodies against human cancer cell lines with specificities for blood group and related antigens. Characterization by antibody binding to glycosphingolipids in a chromatogram binding assay. Journal of Biological Chemistry, 1983, 258, 4091-7.	1.6	140
46	Structures of blood group glycosphingolipids of human small intestine. A relation between the expression of fucolipids of epithelial cells and the ABO, Le and Se phenotype of the donor. Journal of Biological Chemistry, 1987, 262, 6758-65.	1.6	138
47	The Densely O-Glycosylated MUC2 Mucin Protects the Intestine and Provides Food for the Commensal Bacteria. Journal of Molecular Biology, 2016, 428, 3221-3229.	2.0	137
48	Comparison of Methods for Profiling O-Glycosylation. Molecular and Cellular Proteomics, 2010, 9, 719-727.	2.5	136
49	Core 1â€“ and 3â€“derived O-glycans collectively maintain the colonic mucus barrier and protect against spontaneous colitis in mice. Mucosal Immunology, 2017, 10, 91-103.	2.7	128
50	Mucus and mucins in diseases of the intestinal and respiratory tracts. Journal of Internal Medicine, 2019, 285, 479-490.	2.7	126
51	Neutralization of pH in the Golgi apparatus causes redistribution of glycosyltransferases and changes in the O-glycosylation of mucins. Glycobiology, 2001, 11, 633-644.	1.3	122
52	Dimerization of the Human MUC2 Mucin in the Endoplasmic Reticulum Is Followed by a N-Glycosylation-dependent Transfer of the Mono- and Dimers to the Golgi Apparatus. Journal of Biological Chemistry, 1998, 273, 18857-18863.	1.6	119
53	A polarized epithelial cell mutant deficient in translocation of UDP-galactose into the Golgi complex.. Journal of Biological Chemistry, 1988, 263, 16283-16290.	1.6	119
54	The salivary mucin MG1 (MUC5B) carries a repertoire of unique oligosaccharides that is large and diverse. Glycobiology, 2002, 12, 1-14.	1.3	117

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55	Studies of mucus in mouse stomach, small intestine, and colon. II. Gastrointestinal mucus proteome reveals Muc2 and Muc5ac accompanied by a set of core proteins. American Journal of Physiology - Renal Physiology, 2013, 305, G348-G356.	1.6	114
56	Altered Mucus Glycosylation in Core 1 O-Glycan-Deficient Mice Affects Microbiota Composition and Intestinal Architecture. PLoS ONE, 2014, 9, e85254.	1.1	114
57	Gram-positive bacteria are held at a distance in the colon mucus by the lectin-like protein ZG16. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13833-13838.	3.3	113
58	Application of a simple methylation procedure for the analyses of glycosphingolipids. Carbohydrate Research, 1987, 161, 281-290.	1.1	111
59	Biosynthesis of the cancer-associated sialyl-Lea antigen.. Journal of Biological Chemistry, 1985, 260, 9388-9392.	1.6	106
60	Intestinal Muc2 mucin O-glycosylation is affected by microbiota and regulated by differential expression of glycosyltranferases. Glycobiology, 2017, 27, 318-328.	1.3	105
61	Searching the Evolutionary Origin of Epithelial Mucus Protein Componentsâ€"Mucins and FCGBP. Molecular Biology and Evolution, 2016, 33, 1921-1936.	3.5	104
62	Spontaneous Colitis in Muc2-Deficient Mice Reflects Clinical and Cellular Features of Active Ulcerative Colitis. PLoS ONE, 2014, 9, e100217.	1.1	93
63	Inhibition of Cyclooxygenase-2 Prevents Chronic and Recurrent Cystitis. EBioMedicine, 2014, 1, 46-57.	2.7	92
64	The normal trachea is cleaned by MUC5B mucin bundles from the submucosal glands coated with the MUC5AC mucin. Biochemical and Biophysical Research Communications, 2017, 492, 331-337.	1.0	92
65	Characterization of two different glycosylated domains from the insoluble mucin complex of rat small intestine. Journal of Biological Chemistry, 1993, 268, 18771-81.	1.6	92
66	Selected ion monitoring of glycosphingolipid mixtures. Identification of several blood group type glycolipids in the small intestine of an individual rabbit. Biomedical Mass Spectrometry, 1979, 6, 231-241.	1.8	91
67	Glycosphingolipids and the differentiation of intestinal epithelium. Experimental Cell Research, 1981, 135, 1-13.	1.2	91
68	Novel Polyfucosylated N-Linked Glycopeptides with Blood Group A, H, X, and Y Determinants from Human Small Intestinal Epithelial Cells. Journal of Biological Chemistry, 1989, 264, 5720-5735.	1.6	91
69	Liquid chromatographyâ€"electrospray mass spectrometry as a tool for the analysis of sulfated oligosaccharides from mucin glycoproteins. Journal of Chromatography A, 1999, 854, 131-139.	1.8	90
70	Glycosphingolipid receptors for Pseudomonas aeruginosa. Infection and Immunity, 1990, 58, 2361-2366.	1.0	90
71	Keeping Bacteria at a Distance. Science, 2011, 334, 182-183.	6.0	89
72	Mucus and the Goblet Cell. Digestive Diseases, 2013, 31, 305-309.	0.8	89

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73	The gastric mucus layers: constituents and regulation of accumulation. American Journal of Physiology - Renal Physiology, 2008, 295, G806-G812.	1.6	88
74	Mucus Architecture and Near-Surface Swimming Affect Distinct Salmonella Typhimurium Infection Patterns along the Murine Intestinal Tract. Cell Reports, 2019, 27, 2665-2678.e3.	2.9	88
75	A single sulfatase is required to access colonic mucin by a gut bacterium. Nature, 2021, 598, 332-337.	13.7	87
76	Glycosphingolipids of rat tissues. Different composition of epithelial and nonepithelial cells of small intestine. Journal of Biological Chemistry, 1982, 257, 557-68.	1.6	86
77	Secreted MUC1 mucins lacking their cytoplasmic part and carrying sialyl-Lewis a and x epitopes from a tumor cell line and sera of colon carcinoma patients can inhibit HL-60 leukocyte adhesion to E-selectin-expressing endothelial cells. Journal of Cellular Biochemistry, 1996, 60, 538-549.	1.2	84
78	O-Glycosylated MUC2 Monomer and Dimer from LS 174T Cells Are Water-soluble, whereas Larger MUC2 Species Formed Early during Biosynthesis Are Insoluble and Contain Nonreducible Intermolecular Bonds. Journal of Biological Chemistry, 1998, 273, 18864-18870.	1.6	83
79	Recombinant MUC1 mucin with a breast cancer-like O-glycosylation produced in large amounts in Chinese-hamster ovary cells. Biochemical Journal, 2003, 376, 677-686.	1.7	83
80	The Nlrp6 inflammasome is not required for baseline colonic inner mucus layer formation or function. Journal of Experimental Medicine, 2019, 216, 2602-2618.	4.2	83
81	Recombinant Tumor-Associated MUC1 Glycoprotein Impairs the Differentiation and Function of Dendritic Cells. Journal of Immunology, 2005, 174, 7764-7772.	0.4	82
82	Sequencing of Sulfated Oligosaccharides from Mucins by Liquid Chromatography and Electrospray Ionization Tandem Mass Spectrometry. Analytical Chemistry, 2000, 72, 4543-4549.	3.2	80
83	An Autocatalytic Cleavage in the C Terminus of the Human MUC2 Mucin Occurs at the Low pH of the Late Secretory Pathway. Journal of Biological Chemistry, 2003, 278, 13944-13951.	1.6	80
84	Hydrodynamic properties of solubilized (Na+ + K+)-ATPase from rectal glands of Squalus acanthias. Biochimica Et Biophysica Acta - Biomembranes, 1980, 603, 1-12.	1.4	79
85	Lewis blood group antigens defined by monoclonal anti-colon carcinoma antibodies. Archives of Biochemistry and Biophysics, 1984, 233, 161-168.	1.4	78
86	Function of the CysD domain of the gel-forming MUC2 mucin. Biochemical Journal, 2011, 436, 61-70.	1.7	78
87	Stromal IFN-Î³R-Signaling Modulates Goblet Cell Function During Salmonella Typhimurium Infection. PLoS ONE, 2011, 6, e22459.	1.1	78
88	Membrane mucins of the intestine at a glance. Journal of Cell Science, 2020, 133, .	1.2	74
89	Mucins and their O-Glycans from human bronchial epithelial cell cultures. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2004, 287, L824-L834.	1.3	72
90	Detailed O-glycomics of the Muc2 mucin from colon of wild-type, core 1- and core 3-transferase-deficient mice highlights differences compared with human MUC2. Glycobiology, 2012, 22, 1128-1139.	1.3	72

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91	The human MUC2 mucin apoprotein appears to dimerize before O-glycosylation and shares epitopes with the â€˜insolubleâ€™ mucin of rat small intestine. Biochemical Journal, 1995, 308, 873-880.	1.7	70
92	A MUC1 Mucin Secreted from a Colon Carcinoma Cell Line Inhibits Target Cell Lysis by Natural Killer Cells. Cellular Immunology, 1997, 176, 158-165.	1.4	69
93	Site-specific O-Glycosylation on the MUC2 Mucin Protein Inhibits Cleavage by the Porphyromonas gingivalis Secreted Cysteine Protease (RgpB). Journal of Biological Chemistry, 2013, 288, 14636-14646.	1.6	69
94	Detection of blood group type glycosphingolipid antigens on thin-layer plates using polyclonal antisera. Journal of Immunological Methods, 1985, 83, 37-42.	0.6	68
95	Slc26a3 deficiency is associated with loss of colonic <scp>HCO</scp>₃^{âˆ’} secretion, absence of a firm mucus layer and barrier impairment in mice. Acta Physiologica, 2014, 211, 161-175.	1.8	67
96	A novel approach to the study of glycolipid receptors for viruses. FEBS Letters, 1984, 170, 15-18.	1.3	66
97	Dietary destabilisation of the balance between the microbiota and the colonic mucus barrier. Gut Microbes, 2019, 10, 246-250.	4.3	66
98	Blood Group Type Glycosphingolipids from the Small Intestine of Different Animals Analysed by Mass Spectrometry and Thin-Layer Chromatography. A Note on Species Diversity12. Journal of Biochemistry, 1981, 90, 589-609.	0.9	64
99	Glycosylation differences between pig gastric mucin populations: a comparative study of the neutral oligosaccharides using mass spectrometry. Biochemical Journal, 1997, 326, 911-917.	1.7	64
100	An inventory of mucin genes in the chicken genome shows that the mucin domain of Muc13 is encoded by multiple exons and that ovomucin is part of a locus of related gel-forming mucins. BMC Genomics, 2006, 7, 197.	1.2	63
101	Calcium-activated Chloride Channel Regulator 1 (CLCA1) Controls Mucus Expansion in Colon by Proteolytic Activity. EBioMedicine, 2018, 33, 134-143.	2.7	63
102	Bioprocess development for the production of a recombinant MUC1 fusion protein expressed by CHO-K1 cells in protein-free medium. Journal of Biotechnology, 2004, 110, 51-62.	1.9	60
103	Perspectives on Mucus Properties and Formation--Lessons from the Biochemical World. Cold Spring Harbor Perspectives in Medicine, 2012, 2, a014159-a014159.	2.9	59
104	Human Low-Molecular-Weight Salivary Mucin Expresses the Sialyl Lewisx Determinant and Has L-Selectin Ligand Activity. Biochemistry, 1998, 37, 4916-4927.	1.2	58
105	AGR2, an Endoplasmic Reticulum Protein, Is Secreted into the Gastrointestinal Mucus. PLoS ONE, 2014, 9, e104186.	1.1	58
106	Mucus glycoproteins from pig gastric mucosa: identification of different mucin populations from the surface epithelium. Biochemical Journal, 1997, 326, 903-910.	1.7	57
107	The recombinant C-terminus of the human MUC2 mucin forms dimers in Chinese-hamster ovary cells and heterodimers with full-length MUC2 in LS 174T cells. Biochemical Journal, 2003, 372, 335-345.	1.7	57
108	Identification of transient glycosylation alterations of sialylated mucin oligosaccharides during infection by the rat intestinal parasite Nippostrongylus brasiliensis. Biochemical Journal, 2000, 350, 805-814.	1.7	56

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109	Characterization of glycosphingolipid mixtures with up to ten sugars by gas chromatography and gas chromatography-mass spectrometry as permethylated oligosaccharides and ceramides released by ceramide glycanase. Biochemistry, 1989, 28, 6672-6678.	1.2	55
110	Sulphated Mucin Oligosaccharides from Porcine Small Intestine Analysed by Four-Sector Tandem Mass Spectrometry. , 1996, 31, 560-572.		55
111	The Specific Glycosphingolipid Composition of Human Ureteral Epithelial Cells1. Journal of Biochemistry, 1985, 98, 1169-1180.	0.9	53
112	Increased levels of mucins in the cystic fibrosis mouse small intestine, and modulator effects of the Muc1 mucin expression. American Journal of Physiology - Renal Physiology, 2006, 291, G203-G210.	1.6	53
113	Glycosphingolipid composition of epithelial cells isolated along the villus axis of small intestine of a single human individual. Glycobiology, 2012, 22, 1721-1730.	1.3	53
114	The use of gas chromatography and gas chromatography-mass spectrometry for the characterization of permethylated oligosaccharides with molecular mass up to 2300. Analytical Biochemistry, 1989, 182, 438-446.	1.1	52
115	Cleavage in the GDPH sequence of the C-terminal cysteine-rich part of the human MUC5AC mucin. Biochemical Journal, 2006, 399, 121-129.	1.7	52
116	The Glycosylation of Rat Intestinal Muc2 Mucin Varies between Rat Strains and the Small and Large Intestine. Journal of Biological Chemistry, 1997, 272, 27025-27034.	1.6	51
117	Is the Intestinal Goblet Cell a Major Immune Cell?. Cell Host and Microbe, 2014, 15, 251-252.	5.1	51
118	Intestinal mucins from cystic fibrosis mice show increased fucosylation due to an induced FucÎ±1-2 glycosyltransferase. Biochemical Journal, 2002, 367, 609-616.	1.7	50
119	Granule-stored MUC5B mucins are packed by the non-covalent formation of N-terminal head-to-head tetramers. Journal of Biological Chemistry, 2018, 293, 5746-5754.	1.6	50
120	Proteomic Mucin Profiling for the Identification of Cystic Precursors of Pancreatic Cancer. Journal of the National Cancer Institute, 2014, 106, djt439.	3.0	49
121	Molecular Cloning of a cDNA Coding for a Region of an Apoprotein from the "Insoluble" Mucin Complex of Rat Small Intestine. Biochemical and Biophysical Research Communications, 1994, 198, 181-190.	1.0	48
122	Molecular characterization of the large heavily glycosylated domain glycopeptide from the rat small intestinal Muc2 mucin. Glycoconjugate Journal, 1996, 13, 823-831.	1.4	48
123	Human MUC5AC mucin dimerizes in the rough endoplasmic reticulum, similarly to the MUC2 mucin. Biochemical Journal, 1998, 335, 381-387.	1.7	46
124	Mucus Properties and Goblet Cell Quantification in Mouse, Rat and Human Ileal Peyer's Patches. PLoS ONE, 2013, 8, e83688.	1.1	46
125	Analysis of Monosaccharide Composition of Mucin Oligosaccharide Alditols by High-Performance Anion-Exchange Chromatography. Analytical Biochemistry, 1995, 224, 538-541.	1.1	45
126	Expression of the Leukocyte-associated Sialoglycoprotein CD43 by a Colon Carcinoma Cell Line. Journal of Biological Chemistry, 1995, 270, 13688-13692.	1.6	45

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127	Shedding and Î³-secretase-mediated intramembrane proteolysis of the mucin-type molecule CD43. Biochemical Journal, 2005, 387, 377-384.	1.7	44
128	Dynamic Changes in Mucus Thickness and Ion Secretion during Citrobacter rodentium Infection and Clearance. PLoS ONE, 2013, 8, e84430.	1.1	44
129	Isoglobotriaosylceramideand the forssman glycolipid of dog small intestine occupy separate tissue compartments and differ in ceramide composition. Lipids and Lipid Metabolism, 1983, 750, 214-216.	2.6	43
130	Highly Accurate Identification of Cystic Precursor Lesions of Pancreatic Cancer Through Targeted Mass Spectrometry: A Phase IIc Diagnostic Study. Journal of Clinical Oncology, 2018, 36, 367-375.	0.8	43
131	The mucus bundles responsible for airway cleaning are retained in cystic fibrosis and by cholinergic stimulation. European Respiratory Journal, 2018, 52, 1800457.	3.1	43
132	Two strains of the Madin-Darby canine kidney (MDCK) cell line have distinct glycosphingolipid compositions. EMBO Journal, 1986, 5, 483-9.	3.5	43
133	Gastrointestinal mucins of Fut2-null mice lack terminal fucosylation without affecting colonization by Candida albicans. Glycobiology, 2005, 15, 1002-1007.	1.3	42
134	The Reduction-insensitive Bonds of the MUC2 Mucin Are Isopeptide Bonds. Journal of Biological Chemistry, 2016, 291, 13580-13590.	1.6	41
135	Protein Turnover in Epithelial Cells and Mucus along the Gastrointestinal Tract Is Coordinated by the Spatial Location and Microbiota. Cell Reports, 2020, 30, 1077-1087.e3.	2.9	41
136	Mapping of the 45M1 epitope to the Câ€terminal cysteineâ€rich part of the human MUC5AC mucin. FEBS Journal, 2008, 275, 481-489.	2.2	40
137	Altered Innate Defenses in the Neonatal Gastrointestinal Tract in Response to Colonization by Neuropathogenic Escherichia coli. Infection and Immunity, 2013, 81, 3264-3275.	1.0	40
138	Gangliotetraosylceramide is a major glycolipid of epithelial cells of mouse small intestine. FEBS Letters, 1982, 139, 291-294.	1.3	39
139	The C-terminus of the transmembrane mucin MUC17 binds to the scaffold protein PDZK1 that stably localizes it to the enterocyte apical membrane in the small intestine. Biochemical Journal, 2008, 410, 283-289.	1.7	39
140	Increased Understanding of the Biochemistry and Biosynthesis of MUC2 and Other Gel-Forming Mucins Through the Recombinant Expression of Their Protein Domains. Molecular Biotechnology, 2013, 54, 250-256.	1.3	39
141	NHE8 plays an important role in mucosal protection via its effect on bacterial adhesion. American Journal of Physiology - Cell Physiology, 2013, 305, C121-C128.	2.1	38
142	Bioinformatic identification of polymerizing and transmembrane mucins in the puffer fish Fugu rubripes. Glycobiology, 2004, 14, 521-527.	1.3	37
143	Isolation and partial characterization of blood group A and H active glycosphingolipids of rat small intestine. Journal of Biological Chemistry, 1982, 257, 906-12.	1.6	37
144	Comparison of Sialyl-Lewis a-Carrying CD43 and MUC1 Mucins Secreted from a Colon Carcinoma Cell Line for E-Selectin Binding and Inhibition of Leukocyte Adhesion. Tumor Biology, 1997, 18, 175-187.	0.8	36

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145	Intestinal MUC2 Mucin Supramolecular Topology by Packing and Release Resting on D3 Domain Assembly. Journal of Molecular Biology, 2014, 426, 2567-2579.	2.0	36
146	Strategy for the investigation of O-linked oligosaccharides from mucins based on the separation into neutral, sialic acid- and sulfate-containing species. Glycoconjugate Journal, 1995, 12, 69-76.	1.4	35
147	Two glycosylation alterations of mouse intestinal mucins due to infection caused by the parasite Nippostrongylus brasiliensis. Glycoconjugate Journal, 2002, 19, 67-75.	1.4	35
148	Localization of O-glycans in MUC1 glycoproteins using electron-capture dissociation fragmentation mass spectrometry. Glycobiology, 2009, 19, 375-381.	1.3	35
149	Attached stratified mucus separates bacteria from the epithelial cells in COPD lungs. JCI Insight, 2018, 3, .	2.3	35
150	Progress in understanding mucus abnormalities in cystic fibrosis airways. Journal of Cystic Fibrosis, 2018, 17, S35-S39.	0.3	34
151	The Preparative Separation of Sialic Acid-Containing Lipids from Sulphate Group-Containing Glycolipids from Small Intestine of Different Animals. Analysis by Thin-Layer Chromatography and Detection of Novel Species1. Journal of Biochemistry, 1983, 93, 1473-1485.	0.9	33
152	Cervical mucins carry Î±(1,2)fucosylated glycans that partly protect from experimental vaginal candidiasis. Glycoconjugate Journal, 2009, 26, 1125-1134.	1.4	33
153	Unfolding dynamics of the mucin <scp>SEA</scp> domain probed by force spectroscopy suggest that it acts as a cellâ€protective device. FEBS Journal, 2013, 280, 1491-1501.	2.2	33
154	A MUC1 tandem repeat reporter protein produced in CHO-K1 cells has sialylated core 1 O-glycans and becomes more densely glycosylated if coexpressed with polypeptide-GalNAc-T4 transferase. Glycobiology, 2004, 15, 177-191.	1.3	32
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