

David J Thornton

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

135
papers

7,596
citations

50
h-index

84
g-index

145
ext. papers

8,667
ext. citations

5.7
avg, IF

5.72
L-index

#	Paper	IF	Citations
135	Defining the early stages of intestinal colonisation by whipworms.. <i>Nature Communications</i> , 2022 , 13, 1725	17.4	1
134	The lipophilic cyclic peptide cyclosporin A induces aggregation of gel-forming mucins.. <i>Scientific Reports</i> , 2022 , 12, 6153	4.9	0
133	Disulfide disruption reverses mucus dysfunction in allergic airway disease. <i>Nature Communications</i> , 2021 , 12, 249	17.4	10
132	Mucus. <i>Current Biology</i> , 2021 , 31, R938-R945	6.3	7
131	Assembly and organization of the N-terminal region of mucin MUC5AC: Indications for structural and functional distinction from MUC5B. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	7
130	Mucins and their receptors in chronic lung disease. <i>Clinical and Translational Immunology</i> , 2020 , 9, e011268	6.8	12
129	Airway Mucus Hyperconcentration in Non-Cystic Fibrosis Bronchiectasis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020 , 201, 661-670	10.2	28
128	The major secreted protein of the whipworm parasite tethers to matrix and inhibits interleukin-13 function. <i>Nature Communications</i> , 2019 , 10, 2344	17.4	32
127	The lung environment controls alveolar macrophage metabolism and responsiveness in type 2 inflammation. <i>Nature Immunology</i> , 2019 , 20, 571-580	19.1	69
126	The C-terminal dimerization domain of the respiratory mucin MUC5B functions in mucin stability and intracellular packaging before secretion. <i>Journal of Biological Chemistry</i> , 2019 , 294, 17105-17116	5.4	12
125	A glycopolymer improves viscoelasticity and mucociliary transport of abnormal cystic fibrosis mucus. <i>JCI Insight</i> , 2019 , 4,	9.9	21
124	ILC2s mediate systemic innate protection by priming mucus production at distal mucosal sites. <i>Journal of Experimental Medicine</i> , 2019 , 216, 2714-2723	16.6	25
123	The MUC5B mucin polymer is dominated by repeating structural motifs and its topology is regulated by calcium and pH. <i>Scientific Reports</i> , 2019 , 9, 17350	4.9	19
122	Trickle infection and immunity to <i>Trichuris muris</i> . <i>PLoS Pathogens</i> , 2019 , 15, e1007926	7.6	16
121	MUB Binds to Lactoferrin and Stands as a Specific Neutrophil Marker. <i>Cell Chemical Biology</i> , 2018 , 25, 483-493.e9	8.2	7
120	Granule-stored MUC5B mucins are packed by the non-covalent formation of N-terminal head-to-head tetramers. <i>Journal of Biological Chemistry</i> , 2018 , 293, 5746-5754	5.4	35
119	Functional characterization of the mucus barrier on the skin surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 726-731	11.5	14

118	A sticky end for gastrointestinal helminths; the role of the mucus barrier. <i>Parasite Immunology</i> , 2018 , 40, e12517	2.2	30
117	Intestinal mucin activates human dendritic cells and IL-8 production in a glycan-specific manner. <i>Journal of Biological Chemistry</i> , 2018 , 293, 8543-8553	5.4	13
116	Vaccination Against Whipworm: Identification of Potential Immunogenic Proteins in <i>Trichuris muris</i> Excretory/Secretory Material. <i>Scientific Reports</i> , 2018 , 8, 4508	4.9	14
115	Extracellular vesicles induce protective immunity against <i>Trichuris muris</i> . <i>Parasite Immunology</i> , 2018 , 40, e12536	2.2	47
114	A detection and quantification label-free tool to speed up downstream processing of model mucins. <i>PLoS ONE</i> , 2018 , 13, e0190974	3.7	10
113	Intracellular Processing of Human Secreted Polymeric Airway Mucins. <i>Annals of the American Thoracic Society</i> , 2018 , 15, S154-S158	4.7	9
112	Mucins: the frontline defence of the lung. <i>Biochemical Society Transactions</i> , 2018 , 46, 1099-1106	5.1	86
111	The normal trachea is cleaned by MUC5B mucin bundles from the submucosal glands coated with the MUC5AC mucin. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 492, 331-337	3.4	65
110	Immune-driven alterations in mucin sulphation is an important mediator of <i>Trichuris muris</i> helminth expulsion. <i>PLoS Pathogens</i> , 2017 , 13, e1006218	7.6	24
109	MUC5AC and a Glycosylated Variant of MUC5B Alter Mucin Composition in Children With Acute Asthma. <i>Chest</i> , 2017 , 152, 771-779	5.3	49
108	Aspergillosis and the role of mucins in cystic fibrosis. <i>Pediatric Pulmonology</i> , 2017 , 52, 548-555	3.5	21
107	Secondary Structure and Glycosylation of Mucus Glycoproteins by Raman Spectroscopies. <i>Analytical Chemistry</i> , 2016 , 88, 11609-11615	7.8	32
106	New Role of Nod Proteins in Regulation of Intestinal Goblet Cell Response in the Context of Innate Host Defense in an Enteric Parasite Infection. <i>Infection and Immunity</i> , 2016 , 84, 275-85	3.7	19
105	The supramolecular packing of the gel-forming MUC5B and MUC2 mucins and its importance for cystic fibrosis 2016 , 15-16		
104	Measuring Airway Mucin 2 in Patients with Severe Chronic Obstructive Pulmonary Disease with Bacterial Colonization. <i>Annals of the American Thoracic Society</i> , 2016 , 13, 2103-2104	4.7	4
103	Biosynthesis of the polymeric gel-forming mucin MUC5B. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016 , 310, L993-L1002	5.8	15
102	Characterization of neopeptides in equine articular cartilage degradation. <i>Journal of Orthopaedic Research</i> , 2016 , 34, 106-20	3.8	14
101	Mucins and Mucus 2015 , 231-250		11

100	Muc5b is required for airway defence. <i>Nature</i> , 2014 , 505, 412-6	50.4	450
99	A combined small-angle X-ray and neutron scattering study of the structure of purified soluble gastrointestinal mucins. <i>Biopolymers</i> , 2014 , 101, 1154-64	2.2	19
98	Tea derived galloylated polyphenols cross-link purified gastrointestinal mucins. <i>PLoS ONE</i> , 2014 , 9, e105302	3.9	35
97	Assembly of the respiratory mucin MUC5B: a new model for a gel-forming mucin. <i>Journal of Biological Chemistry</i> , 2014 , 289, 16409-20	5.4	64
96	A secretory cell type develops alongside multiciliated cells, ionocytes and goblet cells, and provides a protective, anti-infective function in the frog embryonic mucociliary epidermis. <i>Development (Cambridge)</i> , 2014 , 141, 1514-25	6.6	54
95	Particle tracking microrheology of purified gastrointestinal mucins. <i>Biopolymers</i> , 2014 , 101, 366-77	2.2	79
94	Reassessment of the importance of mucins in determining sputum properties in cystic fibrosis. <i>Journal of Cystic Fibrosis</i> , 2014 , 13, 260-6	4.1	17
93	Cystic fibrosis: an inherited disease affecting mucin-producing organs. <i>International Journal of Biochemistry and Cell Biology</i> , 2014 , 52, 136-45	5.6	67
92	Reorganisation of the salivary mucin network by dietary components: insights from green tea polyphenols. <i>PLoS ONE</i> , 2014 , 9, e108372	3.7	36
91	TGF- β decreases baseline and IL-13-stimulated mucin production by primary human bronchial epithelial cells. <i>Experimental Lung Research</i> , 2013 , 39, 39-47	2.3	18
90	The expression of mucin genes and the presence of mucin gene products in the equine endometrium. <i>Research in Veterinary Science</i> , 2013 , 95, 169-75	2.5	1
89	A new role for mucins in immunity: insights from gastrointestinal nematode infection. <i>International Journal of Biochemistry and Cell Biology</i> , 2013 , 45, 364-74	5.6	64
88	Analysis of the cartilage proteome from three different mouse models of genetic skeletal diseases reveals common and discrete disease signatures. <i>Biology Open</i> , 2013 , 2, 802-11	2.2	9
87	Expression and secretion of <i>Aspergillus fumigatus</i> proteases are regulated in response to different protein substrates. <i>Fungal Biology</i> , 2012 , 116, 1003-12	2.8	41
86	Influenza A induces the major secreted airway mucin MUC5AC in a protease-EGFR-extracellular regulated kinase-Sp1-dependent pathway. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012 , 47, 149-57	5.7	61
85	Gel-forming and cell-associated mucins: preparation for structural and functional studies. <i>Methods in Molecular Biology</i> , 2012 , 842, 27-47	1.4	16
84	Loss of matrilin 1 does not exacerbate the skeletal phenotype in a mouse model of multiple epiphyseal dysplasia caused by a <i>Matn3</i> V194D mutation. <i>Arthritis and Rheumatism</i> , 2012 , 64, 1529-39		8
83	Serine protease(s) secreted by the nematode <i>Trichuris muris</i> degrade the mucus barrier. <i>PLoS Neglected Tropical Diseases</i> , 2012 , 6, e1856	4.8	80

82	Desulfurization of mucin by <i>Pseudomonas aeruginosa</i> : influence of sulfate in the lungs of cystic fibrosis patients. <i>Journal of Medical Microbiology</i> , 2012 , 61, 1644-1653	3.2	34
81	Detecting, visualising, and quantifying mucins. <i>Methods in Molecular Biology</i> , 2012 , 842, 49-66	1.4	16
80	Muc5b is the major polymeric mucin in mucus from thoroughbred horses with and without airway mucus accumulation. <i>PLoS ONE</i> , 2011 , 6, e19678	3.7	4
79	Changes in the mucosal barrier during acute and chronic <i>Trichuris muris</i> infection. <i>Parasite Immunology</i> , 2011 , 33, 45-55	2.2	49
78	Muc5ac: a critical component mediating the rejection of enteric nematodes. <i>Journal of Experimental Medicine</i> , 2011 , 208, 893-900	16.6	200
77	Mucin gene deficiency in mice impairs host resistance to an enteric parasitic infection. <i>Gastroenterology</i> , 2010 , 138, 1763-71	13.3	137
76	An unfolded protein response is the initial cellular response to the expression of mutant matrilin-3 in a mouse model of multiple epiphyseal dysplasia. <i>Cell Stress and Chaperones</i> , 2010 , 15, 835-49	4	51
75	A novel role for Gtb1p in glucose trimming of N-linked glycans. <i>Glycobiology</i> , 2009 , 19, 1408-16	5.8	15
74	Ex vivo sputum analysis reveals impairment of protease-dependent mucus degradation by plasma proteins in acute asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009 , 180, 203-10	10.2	78
73	Targeted induction of endoplasmic reticulum stress induces cartilage pathology. <i>PLoS Genetics</i> , 2009 , 5, e1000691	6	105
72	Identification of salivary mucin MUC7 binding proteins from <i>Streptococcus gordonii</i> . <i>BMC Microbiology</i> , 2009 , 9, 163	4.5	39
71	Tracheobronchial air-liquid interface cell culture: a model for innate mucosal defense of the upper airways?. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009 , 296, L92-L100	5.8	126
70	Structure and function of the polymeric mucins in airways mucus. <i>Annual Review of Physiology</i> , 2008 , 70, 459-86	23.1	563
69	Aberrant mucin assembly in mice causes endoplasmic reticulum stress and spontaneous inflammation resembling ulcerative colitis. <i>PLoS Medicine</i> , 2008 , 5, e54	11.6	496
68	MUC5B is the major mucin in the gel phase of sputum in chronic obstructive pulmonary disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008 , 178, 1033-9	10.2	104
67	Proteomic analysis of polymeric salivary mucins: no evidence for MUC19 in human saliva. <i>Biochemical Journal</i> , 2008 , 413, 545-52	3.8	22
66	Structural and functional characterization of recombinant matrilin-3 A-domain and implications for human genetic bone diseases. <i>Journal of Biological Chemistry</i> , 2007 , 282, 34634-43	5.4	37
65	Muc5b and Muc5ac are the major oligomeric mucins in equine airway mucus. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007 , 292, L1396-404	5.8	25

64	Reduced cell proliferation and increased apoptosis are significant pathological mechanisms in a murine model of mild pseudoachondroplasia resulting from a mutation in the C-terminal domain of COMP. <i>Human Molecular Genetics</i> , 2007 , 16, 2072-88	5.6	78
63	Decreased chondrocyte proliferation and dysregulated apoptosis in the cartilage growth plate are key features of a murine model of epiphyseal dysplasia caused by a matn3 mutation. <i>Human Molecular Genetics</i> , 2007 , 16, 1728-41	5.6	61
62	Collagen XXVII is developmentally regulated and forms thin fibrillar structures distinct from those of classical vertebrate fibrillar collagens. <i>Journal of Biological Chemistry</i> , 2007 , 282, 12791-5	5.4	51
61	MUC16 is produced in tracheal surface epithelium and submucosal glands and is present in secretions from normal human airway and cultured bronchial epithelial cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2007 , 39, 1943-54	5.6	68
60	The alternatively spliced type III connecting segment of fibronectin is a zinc-binding module. <i>Matrix Biology</i> , 2007 , 26, 485-93	11.4	4
59	Proteomic analysis of mouse growth plate cartilage. <i>Proteomics</i> , 2006 , 6, 6549-53	4.8	31
58	Regulation of MUC5AC mucin secretion and airway surface liquid metabolism by IL-1beta in human bronchial epithelia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004 , 286, L320-30	5.8	85
57	Identification of molecular intermediates in the assembly pathway of the MUC5AC mucin. <i>Journal of Biological Chemistry</i> , 2004 , 279, 15698-705	5.4	75
56	Site-specific N-linked glycosylation analysis on the human salivary mucin MUC5B using Precursor Ion Discovery on the CAPLC Q-TOF system. <i>International Journal of Experimental Pathology</i> , 2004 , 85, A71-A72	2.8	78
55	From mucins to mucus: toward a more coherent understanding of this essential barrier. <i>Proceedings of the American Thoracic Society</i> , 2004 , 1, 54-61		249
54	Partial characterisation of high-molecular weight glycoconjugates in the trail mucus of the freshwater pond snail <i>Lymnaea stagnalis</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2004 , 137, 475-86	2.3	9
53	Interaction between mycobacteria and mucus on a human respiratory tissue organ culture model with an air interface. <i>Experimental Lung Research</i> , 2004 , 30, 17-29	2.3	8
52	Calcium-dependent protein interactions in MUC5B provide reversible cross-links in salivary mucus. <i>Journal of Biological Chemistry</i> , 2003 , 278, 28703-10	5.4	101
51	Juxtaposition of the two distal CX3C motifs via intrachain disulfide bonding is essential for the folding of Tim10. <i>Journal of Biological Chemistry</i> , 2003 , 278, 38505-13	5.4	72
50	A reproducible protocol for analysis of the proteome of <i>Trypanosoma brucei</i> by 2-dimensional gel electrophoresis. <i>Molecular and Biochemical Parasitology</i> , 2003 , 128, 107-10	1.9	19
49	Assembly of Tim9 and Tim10 into a functional chaperone. <i>Journal of Biological Chemistry</i> , 2002 , 277, 36190-8	5.4	62
48	Heterogeneity of airways mucus: variations in the amounts and glycoforms of the major oligomeric mucins MUC5AC and MUC5B. <i>Biochemical Journal</i> , 2002 , 361, 537-46	3.8	177
47	Concentrated solutions of salivary MUC5B mucin do not replicate the gel-forming properties of saliva. <i>Biochemical Journal</i> , 2002 , 362, 289-96	3.8	42

46	Concentrated solutions of salivary MUC5B mucin do not replicate the gel-forming properties of saliva. <i>Biochemical Journal</i> , 2002 , 362, 289-296	3.8	59
45	Heterogeneity of airways mucus: variations in the amounts and glycoforms of the major oligomeric mucins MUC5AC and MUC5B. <i>Biochemical Journal</i> , 2002 , 361, 537-546	3.8	257
44	Identification of a nonmucin glycoprotein (gp-340) from a purified respiratory mucin preparation: evidence for an association involving the MUC5B mucin. <i>Glycobiology</i> , 2001 , 11, 969-77	5.8	44
43	Physical characterization of the MUC5AC mucin: a highly oligomeric glycoprotein whether isolated from cell culture or in vivo from respiratory mucous secretions. <i>Biochemical Journal</i> , 2000 , 347, 37	3.8	29
42	The biochemical characterization of aggrecan from normal and tibial-dyschondroplastic chicken growth-plate cartilage. <i>Biochemical Journal</i> , 2000 , 351, 517	3.8	
41	Physical characterization of the MUC5AC mucin: a highly oligomeric glycoprotein whether isolated from cell culture or in vivo from respiratory mucous secretions. <i>Biochemical Journal</i> , 2000 , 347, 37-44	3.8	68
40	Separation and identification of mucins and their glycoforms. <i>Methods in Molecular Biology</i> , 2000 , 125, 77-85	1.4	13
39	The biochemical characterization of aggrecan from normal and tibial-dyschondroplastic chicken growth-plate cartilage. <i>Biochemical Journal</i> , 2000 , 351, 517-525	3.8	2
38	Characterization of mucins from cultured normal human tracheobronchial epithelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2000 , 278, L1118-28	5.8	71
37	Detection and quantitation of mucins using chemical, lectin, and antibody methods. <i>Methods in Molecular Biology</i> , 2000 , 125, 45-55	1.4	7
36	Heterogeneity and size distribution of gel-forming mucins. <i>Methods in Molecular Biology</i> , 2000 , 125, 87-96	1.4	13
35	Identification in vitreous and molecular cloning of opticin, a novel member of the family of leucine-rich repeat proteins of the extracellular matrix. <i>Journal of Biological Chemistry</i> , 2000 , 275, 2123-5	5.4	75
34	Physical characterization of the MUC5AC mucin: a highly oligomeric glycoprotein whether isolated from cell culture or in vivo from respiratory mucous secretions. <i>Biochemical Journal</i> , 2000 , 347 Pt 1, 37-44	3.8	33
33	A study of the intracellular and secreted forms of the MUC2 mucin from the PC/AA intestinal cell line. <i>Glycobiology</i> , 1999 , 9, 739-46	5.8	27
32	Physical characterization of a low-charge glycoform of the MUC5B mucin comprising the gel-phase of an asthmatic respiratory mucous plug. <i>Biochemical Journal</i> , 1999 , 338, 507-513	3.8	90
31	Physical characterization of a low-charge glycoform of the MUC5B mucin comprising the gel-phase of an asthmatic respiratory mucous plug. <i>Biochemical Journal</i> , 1999 , 338, 507	3.8	35
30	Salivary mucin MG1 is comprised almost entirely of different glycosylated forms of the MUC5B gene product. <i>Glycobiology</i> , 1999 , 9, 293-302	5.8	170
29	Physical characterization of a low-charge glycoform of the MUC5B mucin comprising the gel-phase of an asthmatic respiratory mucous plug. <i>Biochemical Journal</i> , 1999 , 338 (Pt 2), 507-13	3.8	28

28	Isolation and physical characterization of the MUC7 (MG2) mucin from saliva: evidence for self-association. <i>Biochemical Journal</i> , 1998 , 334 (Pt 2), 415-22	3.8	65
27	Monoclonal antibody recognizing a core epitope on mucin. <i>Disease Markers</i> , 1998 , 14, 99-112	3.2	
26	Identification of two glycoforms of the MUC5B mucin in human respiratory mucus. Evidence for a cysteine-rich sequence repeated within the molecule. <i>Journal of Biological Chemistry</i> , 1997 , 272, 9561-6	5.4	139
25	Structure and Biochemistry of Human Respiratory Mucins 1997 , 19-39		2
24	Biosynthesis of the MUC2 mucin: evidence for a slow assembly of fully glycosylated units. <i>Biochemical Journal</i> , 1996 , 315 (Pt 3), 1055-60	3.8	40
23	Respiratory mucins: identification of core proteins and glycoforms. <i>Biochemical Journal</i> , 1996 , 316 (Pt 3), 967-75	3.8	170
22	Identification of glycoproteins on nitrocellulose membranes and gels. <i>Molecular Biotechnology</i> , 1996 , 5, 171-6	3	62
21	Analysis of respiratory mucus glycoproteins in asthma: a detailed study from a patient who died in status asthmaticus. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1995 , 13, 748-56	5.7	110
20	Mucin biosynthesis and macromolecular assembly. <i>Biochemical Society Transactions</i> , 1995 , 23, 819-21	5.1	13
19	Methods for separation and deglycosylation of mucin subunits. <i>Analytical Biochemistry</i> , 1995 , 227, 162-73	3.1	81
18	Identification of two major populations of mucins in respiratory secretions. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1994 , 150, 823-32	10.2	51
17	Identification of glycoproteins on nitrocellulose membranes and gels. <i>Methods in Molecular Biology</i> , 1994 , 32, 119-28	1.4	19
16	Evidence for shared epitopes within the N-glycanase domains of human mucus glycoproteins. A study performed by using polyclonal antibodies and electron microscopy. <i>Biochemical Journal</i> , 1991 , 274 (Pt 1), 293-6	3.8	36
15	Mucus glycoproteins from cystic fibrotic sputum. Macromolecular properties and structural architecture. <i>Biochemical Journal</i> , 1991 , 276 (Pt 3), 667-75	3.8	67
14	Heterogeneity of mucus glycoproteins from cystic fibrotic sputum. Are there different families of mucins?. <i>Biochemical Journal</i> , 1991 , 276 (Pt 3), 677-82	3.8	31
13	Mucin structure. The structure and heterogeneity of respiratory mucus glycoproteins. <i>The American Review of Respiratory Disease</i> , 1991 , 144, S4-9		66
12	Mucus glycoproteins from normal human tracheobronchial secretion. <i>Biochemical Journal</i> , 1990 , 265, 179-86	3.8	124
11	Histochemical methods used in biochemical approaches to mucus glycoproteins. <i>Acta Manilana</i> , 1990 , 40, 133-5		1

10	An investigation of a maximum entropy method for the processing of ¹ H and ¹³ C nmr spectra from glycosaminoglycan oligo- and poly-saccharides. <i>European Polymer Journal</i> , 1989 , 25, 861-869	5.2	8
9	Quantitation of mucus glycoproteins blotted onto nitrocellulose membranes. <i>Analytical Biochemistry</i> , 1989 , 182, 160-4	3.1	130
8	Structural studies of two populations of keratan sulphate chains from mature bovine articular cartilage. <i>Glycoconjugate Journal</i> , 1989 , 6, 209-18	3	15
7	Structural and immunological studies of keratan sulphates from mature bovine articular cartilage. <i>Biochemical Journal</i> , 1989 , 260, 277-82	3.8	41
6	A study of the interaction between cartilage proteoglycan and link protein. <i>Biochemical Journal</i> , 1987 , 248, 943-51	3.8	8
5	An enzyme-linked immunosorbent assay (ELISA) of denatured cartilage link protein. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1987 , 925, 347-55	4	3
4	Electron-microscopic and electrophoretic studies of bovine femoral-head cartilage proteoglycan fractions. <i>Biochemical Journal</i> , 1986 , 240, 41-8	3.8	16
3	The glycosaminoglycans of pig colonic wall connective tissue. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1983 , 757, 219-25	4	4
2	Defining the early stages of intestinal colonisation by whipworms		3
1	Disulfide disruption reverses mucus dysfunction in allergic airway disease		1