Pieter Hiemstra

List of Publications by Year
in descending order

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319 papers	18,165 citations	12330 69 h-index	20358 116 g-index
325 all docs	325 docs citations	325 times ranked	22283 citing authors

#	Article	IF	Citations
1	Human cathelicidin, hCAP-18, is processed to the antimicrobial peptide LL-37 by extracellular cleavage with proteinase 3. Blood, 2001, 97, 3951-3959.	1.4	770
2	An angiogenic role for the human peptide antibiotic LL-37/hCAP-18. Journal of Clinical Investigation, 2003, 111, 1665-1672.	8.2	727
3	4-Hydroxy-2-Nonenal, a Specific Lipid Peroxidation Product, Is Elevated in Lungs of Patients with Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2002, 166, 490-495.	5.6	407
4	In Vivo Expression of Toll-Like Receptor 2 and 4 by Renal Epithelial Cells: IFN-Î³ and TNF-Î± Mediated Up-Regulation During Inflammation. Journal of Immunology, 2002, 168, 1286-1293.	0.8	406
5	The Antimicrobial Peptide LL-37 Activates Innate Immunity at the Airway Epithelial Surface by Transactivation of the Epidermal Growth Factor Receptor. Journal of Immunology, 2003, 171, 6690-6696.	0.8	389
6	Brown fat activation reduces hypercholesterolaemia and protects from atherosclerosis development. Nature Communications, 2015, 6, 6356.	12.8	360
7	The innate immune function of airway epithelial cells in inflammatory lung disease. European Respiratory Journal, 2015, 45, 1150-1162.	6.7	303
8	High Expression Levels of Keratinocyte Antimicrobial Proteins in Psoriasis Compared with Atopic Dermatitis. Journal of Investigative Dermatology, 2005, 125, 1163-1173.	0.7	262
9	Asthmaâ€“COPD Overlap. Clinical Relevance of Genomic Signatures of Type 2 Inflammation in Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2015, 191, 758-766.	5.6	257
10	Reduction in sputum neutrophil and eosinophil numbers by the PDE4 inhibitor roflumilast in patients with COPD. Thorax, 2007, 62, 1081-1087.	5.6	254
11	Monocyte chemoattractant protein 1, interleukin 8, and chronic airways inflammation in COPD. Journal of Pathology, 2000, 190, 619-626.	4.5	250
12	Expression of Î²â€defensin 1 and 2 mRNA by human monocytes, macrophages and dendritic cells. Immunology, 2002, 106, 517-525.	4.4	232
13	Airway Epithelial Barrier Dysfunction in Chronic Obstructive Pulmonary Disease: Role of Cigarette Smoke Exposure. American Journal of Respiratory Cell and Molecular Biology, 2018, 58, 157-169.	2.9	217
14	An emerging class of air pollutants: Potential effects of microplastics to respiratory human health?. Science of the Total Environment, 2020, 749, 141676.	8.0	204
15	Human Cathelicidin LL-37 Is a Chemoattractant for Eosinophils and Neutrophils That Acts via Formyl-Peptide Receptors. International Archives of Allergy and Immunology, 2006, 140, 103-112.	2.1	201
16	Efficient and sensitive identification and quantification of airborne pollen using nextâ€generation <scp>DNA</scp> sequencing. Molecular Ecology Resources, 2015, 15, 8-16.	4.8	192
17	Activation of the alternative pathway of complement by human serum IgA. European Journal of Immunology, 1987, 17, 321-326.	2.9	172
18	Effect of Fluticasone With and Without Salmeterol on Pulmonary Outcomes in Chronic Obstructive Pulmonary Disease. Annals of Internal Medicine, 2009, 151, 517.	3.9	166

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19	Defensins: Key players or bystanders in infection, injury, and repair in the lung?â˜†â˜†â˜†. Journal of Allergy and Clinical Immunology, 1999, 104, 1131-1138.	2.9	159
20	Development of novel LL-37 derived antimicrobial peptides with LPS and LTA neutralizing and antimicrobial activities for therapeutic application. Peptides, 2006, 27, 649-660.	2.4	155
21	LL-37 Directs Macrophage Differentiation toward Macrophages with a Proinflammatory Signature. Journal of Immunology, 2010, 185, 1442-1449.	0.8	153
22	Neutrophil Defensins Enhance Lung Epithelial Wound Closure and Mucin Gene ExpressionIn Vitro. American Journal of Respiratory Cell and Molecular Biology, 2004, 30, 193-201.	2.9	148
23	Brown adipose tissue takes up plasma triglycerides mostly after lipolysis. Journal of Lipid Research, 2015, 56, 51-59.	4.2	147
24	Effect of bariatric surgery on asthma control, lung function and bronchial and systemic inflammation in morbidly obese subjects with asthma. Thorax, 2015, 70, 659-667.	5.6	147
25	A Dynamic Bronchial Airway Gene Expression Signature of Chronic Obstructive Pulmonary Disease and Lung Function Impairment. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 933-942.	5.6	142
26	Gene expression profile and histopathology of experimental bronchopulmonary dysplasia induced by prolonged oxidative stress. Free Radical Biology and Medicine, 2004, 36, 782-801.	2.9	141
27	A quantitative method for detection of spliced X-box binding protein-1 (XBP1) mRNA as a measure of endoplasmic reticulum (ER) stress. Cell Stress and Chaperones, 2012, 17, 275-279.	2.9	141
28	Airâ€“Liquid InterfaceIn VitroModels for Respiratory Toxicology Research: Consensus Workshop and Recommendations. Applied in Vitro Toxicology, 2018, 4, 91-106.	1.1	138
29	Vitamin D to prevent exacerbations of COPD: systematic review and meta-analysis of individual participant data from randomised controlled trials. Thorax, 2019, 74, 337-345.	5.6	136
30	Processing of Seminal Plasma hCAP-18 to ALL-38 by Gastricsin. Journal of Biological Chemistry, 2003, 278, 28540-28546.	3.4	135
31	Human lung epithelial cell cultures for analysis of inhaled toxicants: Lessons learned and future directions. Toxicology in Vitro, 2018, 47, 137-146.	2.4	132
32	Genome-wide association analysis identifies six new loci associated with forced vital capacity. Nature Genetics, 2014, 46, 669-677.	21.4	131
33	Electronic cigarettes: a task force report from the European Respiratory Society. European Respiratory Journal, 2019, 53, 1801151.	6.7	131
34	Bronchial CD8 Cell Infiltrate and Lung Function Decline in Asthma. American Journal of Respiratory and Critical Care Medicine, 2005, 172, 837-841.	5.6	126
35	Effect of neutrophil serine proteinases and defensins on lung epithelial cells: modulation of cytotoxicity and IL-8 production. Journal of Leukocyte Biology, 1997, 62, 217-226.	3.3	122
36	Ubiquicidin, a novel murine microbicidal protein present in the cytosolic fraction of macrophages. Journal of Leukocyte Biology, 1999, 66, 423-428.	3.3	114

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37	LL-37-Derived Peptides Eradicate Multidrug-Resistant Staphylococcus aureus from Thermally Wounded Human Skin Equivalents. Antimicrobial Agents and Chemotherapy, 2014, 58, 4411-4419.	3.2	113
38	Effects of cigarette smoke condensate on proliferation and wound closure of bronchial epithelial cells in vitro: role of glutathione. Respiratory Research, 2005, 6, 140.	3.6	110
39	Bronchial Inflammation and Airway Responses to Deep Inspiration in Asthma and Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2007, 176, 121-128.	5.6	110
40	Extracellular matrix composition in COPD. European Respiratory Journal, 2012, 40, 1362-1373.	6.7	110
41	Mechanisms of cell death induced by the neutrophil antimicrobial peptides Î±-defensins and LL-37. Inflammation Research, 2006, 55, 119-127.	4.0	109
42	Initiation of Apoptosis by Actin Cytoskeletal Derangement in Human Airway Epithelial Cells. American Journal of Respiratory Cell and Molecular Biology, 2001, 24, 282-294.	2.9	105
43	Regulation of SLPI and elafin release from bronchial epithelial cells by neutrophil defensins. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 278, L51-L58.	2.9	104
44	PRAME-Specific Allo-HLAâ€“Restricted T Cells with Potent Antitumor Reactivity Useful for Therapeutic T-Cell Receptor Gene Transfer. Clinical Cancer Research, 2011, 17, 5615-5625.	7.0	104
45	Human neutrophil defensins induce lung epithelial cell proliferation in vitro. Journal of Leukocyte Biology, 2002, 72, 167-74.	3.3	102
46	Induction of SLPI (ALP/HUSI-I) in Epidermal Keratinocytes. Journal of Investigative Dermatology, 1998, 111, 996-1002.	0.7	99
47	Role of Polymorphonuclear Leukocyte-Derived Serine Proteinases in Defense againstActinobacillus actinomycetemcomitans. Infection and Immunity, 2006, 74, 5284-5291.	2.2	99
48	Eotaxin-2 and eotaxin-3 expression is associated with persistent eosinophilic bronchial inflammation in patients with asthma after allergen challenge. Journal of Allergy and Clinical Immunology, 2005, 115, 779-785.	2.9	92
49	A phase I study for intravenous autologous mesenchymal stromal cell administration to patients with severe emphysema. QJM - Monthly Journal of the Association of Physicians, 2016, 109, 331-336.	0.5	90
50	THE ROLE OF EPITHELIALÎ²-DEFENSINS AND CATHELICIDINS IN HOST DEFENSE OF THE LUNG. Experimental Lung Research, 2007, 33, 537-542.	1.2	88
51	Characterization of Mucosal Biofilms on Human Adenoid Tissues. Laryngoscope, 2008, 118, 128-134.	2.0	87
52	Antimicrobial Peptides and Innate Lung Defenses. Chest, 2016, 149, 545-551.	0.8	87
53	Suramin Inhibits SARS-CoV-2 Infection in Cell Culture by Interfering with Early Steps of the Replication Cycle. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	87
54	Allergen-induced impairment of bronchoprotective nitric oxide synthesis in asthma. Journal of Allergy and Clinical Immunology, 2001, 108, 198-204.	2.9	86

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55	Smoking cessation and bronchial epithelial remodelling in COPD: a cross-sectional study. Respiratory Research, 2007, 8, 85.	3.6	86
56	Recent advances in alveolar biology: Evolution and function of alveolar proteins. Respiratory Physiology and Neurobiology, 2010, 173, S43-S54.	1.6	86
57	Quaking, an RNA-Binding Protein, Is a Critical Regulator of Vascular Smooth Muscle Cell Phenotype. Circulation Research, 2013, 113, 1065-1075.	4.5	86
58	Regeneration of the lung: Lung stem cells and the development of lung mimicking devices. Respiratory Research, 2016, 17, 44.	3.6	86
59	High intensity training in obesity: a Meta-analysis. Obesity Science and Practice, 2017, 3, 258-271.	1.9	84
60	Virulence Factors of Pseudomonas aeruginosa Induce Both the Unfolded Protein and Integrated Stress Responses in Airway Epithelial Cells. PLoS Pathogens, 2015, 11, e1004946.	4.7	83
61	Airway proteoglycans are differentially altered in fatal asthma. Journal of Pathology, 2005, 207, 102-110.	4.5	82
62	Neutrophil defensins stimulate the release of cytokines by airway epithelial cells: modulation by dexamethasone. Inflammation Research, 2002, 51, 8-15.	4.0	78
63	Transcriptional response of bronchial epithelial cells to Pseudomonas aeruginosa: identification of early mediators of host defense. Physiological Genomics, 2005, 21, 324-336.	2.3	77
64	An airway epithelial IL-17A response signature identifies a steroid-unresponsive COPD patient subgroup. Journal of Clinical Investigation, 2018, 129, 169-181.	8.2	77
65	TNF-Î± and IL-1Î²-activated human mesenchymal stromal cells increase airway epithelial wound healing in vitro via activation of the epidermal growth factor receptor. Respiratory Research, 2016, 17, 3.	3.6	76
66	Inhibition of Activation of the Classical Pathway of Complement by Human Neutrophil Defensins. Blood, 1998, 92, 3898-3903.	1.4	75
67	Detachment and cytolysis of human endothelial cells by proteinase 3. European Journal of Immunology, 1994, 24, 3211-3215.	2.9	74
68	Asymptomatic Worsening of Airway Inflammation during Low-Dose Allergen Exposure in Asthma. American Journal of Respiratory and Critical Care Medicine, 2002, 166, 294-300.	5.6	74
69	The human cathelicidin LL-37: a multifunctional peptide involved in infection and inflammation in the lung. Pulmonary Pharmacology and Therapeutics, 2005, 18, 321-327.	2.6	74
70	Vitamin D reduces eosinophilic airway inflammation in nonatopic asthma. Journal of Allergy and Clinical Immunology, 2015, 135, 670-675.e3.	2.9	74
71	Prolonged activation of nasal immune cell populations and development of tissue-resident SARS-CoV-2-specific CD8+ T cell responses following COVID-19. Nature Immunology, 2022, 23, 23-32.	14.5	74
72	Altered Macrophage Function in Chronic Obstructive Pulmonary Disease. Annals of the American Thoracic Society, 2013, 10, S180-S185.	3.2	73

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73	The positive prognostic effect of stromal CD8+ tumor-infiltrating T cells is restrained by the expression of HLA-E in non-small cell lung carcinoma. Oncotarget, 2016, 7, 3477-3488.	1.8	73
74	Activation of complement by human serum IgA, secretory IgA and IgA1 fragments. Molecular Immunology, 1988, 25, 527-533.	2.2	72
75	Apocynin increases glutathione synthesis and activates AP-1 in alveolar epithelial cells. FEBS Letters, 1999, 443, 235-239.	2.8	71
76	Epithelial differentiation is a determinant in the production of eotaxin-2 and -3 by bronchial epithelial cells in response to IL-4 and IL-13. Molecular Immunology, 2007, 44, 803-811.	2.2	71
77	Smoking status and anti-inflammatory macrophages in bronchoalveolar lavage and induced sputum in COPD. Respiratory Research, 2011, 12, 34.	3.6	71
78	Tumor mutational load, CD8+ T cells, expression of PD-L1 and HLA class I to guide immunotherapy decisions in NSCLC patients. Cancer Immunology, Immunotherapy, 2020, 69, 771-777.	4.2	70
79	Mesenchymal stromal cells: a novel therapy for the treatment of chronic obstructive pulmonary disease?. Thorax, 2018, 73, 565-574.	5.6	69
80	Microbes and asthma: Opportunities for intervention. Journal of Allergy and Clinical Immunology, 2016, 137, 690-697.	2.9	68
81	Antimicrobial Host Defence Peptides: Immunomodulatory Functions and Translational Prospects. Advances in Experimental Medicine and Biology, 2019, 1117, 149-171.	1.6	68
82	Mitochondria: at the crossroads of regulating lung epithelial cell function in chronic obstructive pulmonary disease. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L149-L164.	2.9	68
83	Demonstration of Bacterial Cells and Glycocalyx in Biofilms on Human Tonsils. JAMA Otolaryngology, 2007, 133, 115.	1.2	67
84	Assessment of Microvascular Leakage via Sputum Induction. American Journal of Respiratory and Critical Care Medicine, 2002, 165, 1275-1279.	5.6	66
85	The antimicrobial peptide LL-37 enhances IL-8 release by human airway smooth muscle cells. Journal of Allergy and Clinical Immunology, 2006, 117, 1328-1335.	2.9	66
86	Neutrophil-derived alpha defensins control inflammation by inhibiting macrophage mRNA translation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4350-4355.	7.1	66
87	Airway gene expression in COPD is dynamic with inhaled corticosteroid treatment and reflects biological pathways associated with disease activity. Thorax, 2014, 69, 14-23.	5.6	65
88	Retinoic acid signaling balances adult distal lung epithelial progenitor cell growth and differentiation. EBioMedicine, 2018, 36, 461-474.	6.1	64
89	A disintegrin and metalloprotease 33 and chronic obstructive pulmonary disease pathophysiology. Thorax, 2007, 62, 242-247.	5.6	63
90	Role of defensins in inflammatory lung disease. Annals of Medicine, 2002, 34, 96-101.	3.8	62

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91	Pro-inflammatory mechanisms of muscarinic receptor stimulation in airway smooth muscle. Respiratory Research, 2010, 11, 130.	3.6	61
92	Airway and alveolar epithelial cells in culture. European Respiratory Journal, 2019, 54, 1900742.	6.7	61
93	Basal Cells Contribute to Innate Immunity of the Airway Epithelium through Production of the Antimicrobial Protein RNase 7. Journal of Immunology, 2015, 194, 3340-3350.	0.8	60
94	Cryptic haplotypes ofSERPINA1confer susceptibility to chronic obstructive pulmonary disease. Human Mutation, 2006, 27, 103-109.	2.5	59
95	Muscarinic M₃ Receptors Contribute to Allergen-Induced Airway Remodeling in Mice. American Journal of Respiratory Cell and Molecular Biology, 2014, 50, 690-698.	2.9	58
96	Basic science of electronic cigarettes: assessment in cell culture and in vivo models. Respiratory Research, 2016, 17, 127.	3.6	58
97	Inhaled nitric oxide attenuates pulmonary inflammation and fibrin deposition and prolongs survival in neonatal hyperoxic lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 293, L35-L44.	2.9	57
98	Expression of smooth muscle and extracellular matrix proteins in relation to airway function in asthma. Journal of Allergy and Clinical Immunology, 2008, 121, 1196-1202.	2.9	57
99	Inhibition of hBD-3, but Not hBD-1 and hBD-2, mRNA Expression by Corticosteroids. Biochemical and Biophysical Research Communications, 2001, 280, 522-525.	2.1	56
100	Defining asthmaâ€“COPD overlap syndrome: a population-based study. European Respiratory Journal, 2017, 49, 1602008.	6.7	56
101	Small Airways Dysfunction and Neutrophilic Inflammation in Bronchial Biopsies and BAL in COPD. Chest, 2007, 131, 53-59.	0.8	55
102	Localization of Î³-glutamylcysteine synthetase messenger rna expression in lungs of smokers and patients with chronic obstructive pulmonary disease. Free Radical Biology and Medicine, 2000, 28, 920-925.	2.9	54
103	Expression of the anaphylatoxin receptors C3aR and C5aR is increased in fatal asthma. Journal of Allergy and Clinical Immunology, 2005, 115, 1148-1154.	2.9	53
104	Clinical and inflammatory determinants of bronchial hyperresponsiveness in COPD. European Respiratory Journal, 2012, 40, 1098-1105.	6.7	53
105	Antimicrobial peptide levels are linked to airway inflammation, bacterial colonisation and exacerbations in chronic obstructive pulmonary disease. European Respiratory Journal, 2017, 49, 1601328.	6.7	53
106	TGF-Î² activation impairs fibroblast ability to support adult lung epithelial progenitor cell organoid formation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L14-L28.	2.9	53
107	Stem cell-based Lung-on-Chips: The best of both worlds?. Advanced Drug Delivery Reviews, 2019, 140, 12-32.	13.7	52
108	Profiling the Proteome of Exhaled Breath Condensate in Healthy Smokers and COPD Patients by LC-MS/MS. International Journal of Molecular Sciences, 2012, 13, 13894-13910.	4.1	51

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109	The respiratory virome and exacerbations in patients with chronic obstructive pulmonary disease. PLoS ONE, 2019, 14, e0223952.	2.5	51
110	Interactions between neutrophil-derived antimicrobial peptides and airway epithelial cells. Journal of Leukocyte Biology, 2005, 77, 444-450.	3.3	50
111	Differential distribution of inflammatory cells in large and small airways in smokers. Journal of Clinical Pathology, 2006, 60, 907-911.	2.0	50
112	The complement subcomponent C1q mediates binding of immune complexes and aggregates to endothelial cells in vitro. European Journal of Immunology, 1988, 18, 783-787.	2.9	49
113	Bacterial products increase expression of the human cathelicidin hCAP-18/LL-37 in cultured human sinus epithelial cells. FEMS Immunology and Medical Microbiology, 2004, 42, 225-231.	2.7	49
114	Resveratrol protects against atherosclerosis, but does not add to the antiatherogenic effect of atorvastatin, in APOE*3-Leiden.CETP mice. Journal of Nutritional Biochemistry, 2013, 24, 1423-1430.	4.2	49
115	Role of air pollutants in airway epithelial barrier dysfunction in asthma and COPD. European Respiratory Review, 2022, 31, 210112.	7.1	49
116	Underdiagnosis and overdiagnosis of asthma in the morbidly obese. Respiratory Medicine, 2013, 107, 1356-1364.	2.9	48
117	Antibacterial Defense of Human Airway Epithelial Cells from Chronic Obstructive Pulmonary Disease Patients Induced by Acute Exposure to Nontypeable Haemophilus influenzae: Modulation by Cigarette Smoke. Journal of Innate Immunity, 2017, 9, 359-374.	3.8	47
118	Effects of daily vitamin D supplementation on respiratory muscle strength and physical performance in vitamin D-deficient COPD patients: a pilot trial. International Journal of COPD, 2017, Volume 12, 2583-2592.	2.3	47
119	Tiotropium attenuates IL-13-induced goblet cell metaplasia of human airway epithelial cells. Thorax, 2015, 70, 668-676.	5.6	46
120	Wnt/Î²-catenin signaling is critical for regenerative potential of distal lung epithelial progenitor cells in homeostasis and emphysema. Stem Cells, 2020, 38, 1467-1478.	3.2	46
121	Inhibition of Activation of the Classical Pathway of Complement by Human Neutrophil Defensins. Blood, 1998, 92, 3898-3903.	1.4	46
122	Fully Automated Assessment of Inflammatory Cell Counts and Cytokine Expression in Bronchial Tissue. American Journal of Respiratory and Critical Care Medicine, 2003, 167, 1496-1503.	5.6	45
123	A novel method for expansion and differentiation of mouse tracheal epithelial cells in culture. Scientific Reports, 2018, 8, 7349.	3.3	45
124	Comparison of exhaled breath condensate pH using two commercially available devices in healthy controls, asthma and COPD patients. Respiratory Research, 2009, 10, 78.	3.6	44
125	Muscarinic receptor subtype-specific effects on cigarette smoke-induced inflammation in mice. European Respiratory Journal, 2013, 42, 1677-1688.	6.7	44
126	Airway hyperresponsiveness in chronic obstructive pulmonary disease: AÂmarker of asthma-chronic obstructive pulmonary disease overlap syndrome?. Journal of Allergy and Clinical Immunology, 2016, 138, 1571-1579.e10.	2.9	44

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127	microRNA profiling in lung tissue and bronchoalveolar lavage of cigarette smoke-exposed mice and in COPD patients: a translational approach. Scientific Reports, 2017, 7, 12871.	3.3	44
128	Aberrant epithelial differentiation by cigarette smoke dysregulates respiratory host defence. European Respiratory Journal, 2018, 51, 1701009.	6.7	44
129	Feasibility study on automated recognition of allergenic pollen: grass, birch and mugwort. Aerobiologia, 2006, 22, 275-284.	1.7	43
130	Human neutrophil peptide-1 inhibits both the classical and the lectin pathway of complement activation. Molecular Immunology, 2007, 44, 3608-3614.	2.2	43
131	Toll-Like Receptor (TLR2 and TLR4) Polymorphisms and Chronic Obstructive Pulmonary Disease. PLoS ONE, 2012, 7, e43124.	2.5	43
132	Host defense effector molecules in mucosal secretions. FEMS Immunology and Medical Microbiology, 2005, 45, 151-158.	2.7	42
133	Adenovirus-Specific CD4+T Cell Clones Recognizing Endogenous Antigen Inhibit Viral Replication In Vitro through Cognate Interaction. Journal of Immunology, 2006, 177, 8851-8859.	0.8	42
134	Secondary necrosis of apoptotic neutrophils induced by the human cathelicidin LL-37 is not proinflammatory to phagocytosing macrophages. Journal of Leukocyte Biology, 2009, 86, 891-902.	3.3	42
135	Pulmonary Function Testing and Complications of Laparoscopic Bariatric Surgery. Obesity Surgery, 2013, 23, 1596-1603.	2.1	42
136	Cellular response of mucociliary differentiated primary bronchial epithelial cells to diesel exhaust. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 311, L111-L123.	2.9	41
137	MicroRNA-223 controls the expression of histone deacetylase 2: a novel axis in COPD. Journal of Molecular Medicine, 2016, 94, 725-734.	3.9	41
138	Epithelial antimicrobial peptides and proteins: their role in host defence and inflammation. Paediatric Respiratory Reviews, 2001, 2, 306-310.	1.8	40
139	Genetically Programmed Differences in Epidermal Host Defense between Psoriasis and Atopic Dermatitis Patients. PLoS ONE, 2008, 3, e2301.	2.5	40
140	Systemic Inflammation and Lung Function Impairment in Morbidly Obese Subjects with the Metabolic Syndrome. Journal of Obesity, 2013, 2013, 1-8.	2.7	40
141	Lack of cathelicidin processing in Papillon-LefÃ¨vre syndrome patients reveals essential role of LL-37 in periodontal homeostasis. Orphanet Journal of Rare Diseases, 2014, 9, 148.	2.7	40
142	The role of IREB2 and transforming growth factor beta-1 genetic variants in COPD: a replication case-control study. BMC Medical Genetics, 2011, 12, 24.	2.1	39
143	Use of airway epithelial cell culture to unravel the pathogenesis and study treatment in obstructive airway diseases. Pulmonary Pharmacology and Therapeutics, 2017, 45, 101-113.	2.6	39
144	Aberrant DNA methylation and expression of SPDEF and FOXA2 in airway epithelium of patients with COPD. Clinical Epigenetics, 2017, 9, 42.	4.1	37

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145	microRNAâ€“mRNA regulatory networks underlying chronic mucus hypersecretion in COPD. European Respiratory Journal, 2018, 52, 1701556.	6.7	37
146	Blood eosinophil count and airway epithelial transcriptome relationships in COPD versus asthma. Allergy: European Journal of Allergy and Clinical Immunology, 2020, 75, 370-380.	5.7	37
147	Difference in symptom severity between early and late grass pollen season in patients with seasonal allergic rhinitis. Clinical and Translational Allergy, 2011, 1, 18.	3.2	36
148	IL-4 and IL-13 exposure during mucociliary differentiation of bronchial epithelial cells increases antimicrobial activity and expression of antimicrobial peptides. Respiratory Research, 2011, 12, 59.	3.6	36
149	Hepatocyte-specific IKKÎ² expression aggravates atherosclerosis development in APOE*3-Leiden mice. Atherosclerosis, 2012, 220, 362-368.	0.8	36
150	Role of activin-A in cigarette smoke-induced inflammation and COPD. European Respiratory Journal, 2014, 43, 1028-1041.	6.7	36
151	Cigarette Smoke Modulates Repair and Innate Immunity following Injury to Airway Epithelial Cells. PLoS ONE, 2016, 11, e0166255.	2.5	36
152	Cathelicidin Peptide LL-37 Modulates TREM-1 Expression and Inflammatory Responses to Microbial Compounds. Inflammation, 2011, 34, 412-425.	3.8	35
153	Lung function decline in asthma patients with elevated bronchial CD8, CD4 and CD3 cells. European Respiratory Journal, 2016, 48, 393-402.	6.7	35
154	Immune responses in the treatment of drug-sensitive pulmonary tuberculosis with phenylbutyrate and vitamin D3 as host directed therapy. BMC Infectious Diseases, 2018, 18, 303.	2.9	35
155	In vitro modelling of alveolar repair at the air-liquid interface using alveolar epithelial cells derived from human induced pluripotent stem cells. Scientific Reports, 2020, 10, 5499.	3.3	35
156	The SERPINE2 Gene and Chronic Obstructive Pulmonary Disease. American Journal of Human Genetics, 2006, 79, 184-186.	6.2	34
157	Î±₁-Antitrypsin Production by Proinflammatory and Antiinflammatory Macrophages and Dendritic Cells. American Journal of Respiratory Cell and Molecular Biology, 2012, 46, 607-613.	2.9	34
158	Increased ERK signalling promotes inflammatory signalling in primary airway epithelial cells expressing Z Î±1-antitrypsin. Human Molecular Genetics, 2014, 23, 929-941.	2.9	34
159	The Integrated Stress Response in Lung Disease. American Journal of Respiratory Cell and Molecular Biology, 2014, 50, 1005-1009.	2.9	34
160	Antimicrobial Peptide P60.4Ac-Containing Creams and Gel for Eradication of Methicillin-Resistant Staphylococcus aureus from Cultured Skin and Airway Epithelial Surfaces. Antimicrobial Agents and Chemotherapy, 2016, 60, 4063-4072.	3.2	34
161	Activation of rat complement by soluble and insoluble rat IgA immune complexes. European Journal of Immunology, 1988, 18, 1873-1880.	2.9	33
162	Relapse in FEV1 Decline After Steroid Withdrawal in COPD. Chest, 2015, 148, 389-396.	0.8	33

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163	Stimulation of the Adherence ofHaemophilus influenzaeto Human Lung Epithelial Cells by Antimicrobial Neutrophil Defensins. Journal of Infectious Diseases, 1998, 178, 1067-1074.	4.0	32
164	Lymphocytic inflammation in childhood bronchiolitis obliterans. Pediatric Pulmonology, 2004, 38, 233-239.	2.0	32
165	Novel Genes for Airway Wall Thickness Identified with Combined Genome-Wide Association and Expression Analyses. American Journal of Respiratory and Critical Care Medicine, 2015, 191, 547-556.	5.6	32
166	Anti-carbamylated protein antibodies: a specific hallmark for rheumatoid arthritis. Comparison to conditions known for enhanced carbamylation; renal failure, smoking and chronic inflammation. Annals of the Rheumatic Diseases, 2016, 75, 1575-1576.	0.9	32
167	Proinflammatory Cytokines Impair Vitamin Dâ€“Induced Host Defense in Cultured Airway Epithelial Cells. American Journal of Respiratory Cell and Molecular Biology, 2017, 56, 749-761.	2.9	31
168	Xenobiotic metabolism in differentiated human bronchial epithelial cells. Archives of Toxicology, 2017, 91, 2093-2105.	4.2	31
169	Bone Morphogenetic Protein 9 Protects against Neonatal Hyperoxia-Induced Impairment of Alveolarization and Pulmonary Inflammation. Frontiers in Physiology, 2017, 8, 486.	2.8	31
170	Pulmonary function, exhaled nitric oxide and symptoms in asthma patients with obesity: a cross-sectional study. Respiratory Research, 2017, 18, 205.	3.6	31
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