

# Pieter Hiemstra

## List of Publications by Citations

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304  
papers

13,886  
citations

62  
h-index

103  
g-index

325  
ext. papers

16,136  
ext. citations

6.5  
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6.36  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 304 | Human cathelicidin, hCAP-18, is processed to the antimicrobial peptide LL-37 by extracellular cleavage with proteinase 3. <i>Blood</i> , <b>2001</b> , 97, 3951-9   | 2.2  | 665       |
| 303 | An angiogenic role for the human peptide antibiotic LL-37/hCAP-18. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 111, 1665-72  | 15.9 | 613       |
| 302 | In vivo expression of Toll-like receptor 2 and 4 by renal epithelial cells: IFN-gamma and TNF-alpha mediated up-regulation during inflammation. <i>Journal of Immunology</i> , <b>2002</b> , 168, 1286-93                             | 5.3  | 373       |
| 301 | 4-Hydroxy-2-nonenal, a specific lipid peroxidation product, is elevated in lungs of patients with chronic obstructive pulmonary disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2002</b> , 166, 490-5 | 10.2 | 362       |
| 300 | The antimicrobial peptide LL-37 activates innate immunity at the airway epithelial surface by transactivation of the epidermal growth factor receptor. <i>Journal of Immunology</i> , <b>2003</b> , 171, 6690-6                       | 5.3  | 344       |
| 299 | Brown fat activation reduces hypercholesterolaemia and protects from atherosclerosis development. <i>Nature Communications</i> , <b>2015</b> , 6, 6356  | 17.4 | 258       |
| 298 | The innate immune function of airway epithelial cells in inflammatory lung disease. <i>European Respiratory Journal</i> , <b>2015</b> , 45, 1150-62   | 13.6 | 219       |
| 297 | High expression levels of keratinocyte antimicrobial proteins in psoriasis compared with atopic dermatitis. <i>Journal of Investigative Dermatology</i> , <b>2005</b> , 125, 1163-73  | 4.3  | 211       |
| 296 | Expression of beta-defensin 1 and 2 mRNA by human monocytes, macrophages and dendritic cells. <i>Immunology</i> , <b>2002</b> , 106, 517-25   | 7.8  | 210       |
| 295 | Reduction in sputum neutrophil and eosinophil numbers by the PDE4 inhibitor roflumilast in patients with COPD. <i>Thorax</i> , <b>2007</b> , 62, 1081-7   | 7.3  | 205       |
| 294 | Monocyte chemoattractant protein 1, interleukin 8, and chronic airways inflammation in COPD. <i>Journal of Pathology</i> , <b>2000</b> , 190, 619-26  | 9.4  | 203       |
| 293 | Asthma-COPD overlap. Clinical relevance of genomic signatures of type 2 inflammation in chronic obstructive pulmonary disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2015</b> , 191, 758-66          | 10.2 | 202       |
| 292 | Human cathelicidin LL-37 is a chemoattractant for eosinophils and neutrophils that acts via formyl-peptide receptors. <i>International Archives of Allergy and Immunology</i> , <b>2006</b> , 140, 103-12                             | 3.7  | 166       |
| 291 | Activation of the alternative pathway of complement by human serum IgA. <i>European Journal of Immunology</i> , <b>1987</b> , 17, 321-6   | 6.1  | 145       |
| 290 | Defensins: key players or bystanders in infection, injury, and repair in the lung?. <i>Journal of Allergy and Clinical Immunology</i> , <b>1999</b> , 104, 1131-8   | 11.5 | 138       |
| 289 | Effect of fluticasone with and without salmeterol on pulmonary outcomes in chronic obstructive pulmonary disease: a randomized trial. <i>Annals of Internal Medicine</i> , <b>2009</b> , 151, 517-27                                  | 8    | 136       |
| 288 | Neutrophil defensins enhance lung epithelial wound closure and mucin gene expression in vitro. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2004</b> , 30, 193-201  | 5.7  | 132       |

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| 287 | Gene expression profile and histopathology of experimental bronchopulmonary dysplasia induced by prolonged oxidative stress. <i>Free Radical Biology and Medicine</i> , <b>2004</b> , 36, 782-801                         | 7.8  | 132 |
| 286 | Efficient and sensitive identification and quantification of airborne pollen using next-generation DNA sequencing. <i>Molecular Ecology Resources</i> , <b>2015</b> , 15, 8-16  | 8.4  | 126 |
| 285 | LL-37 directs macrophage differentiation toward macrophages with a proinflammatory signature. <i>Journal of Immunology</i> , <b>2010</b> , 185, 1442-9  | 5.3  | 124 |
| 284 | Development of novel LL-37 derived antimicrobial peptides with LPS and LTA neutralizing and antimicrobial activities for therapeutic application. <i>Peptides</i> , <b>2006</b> , 27, 649-60                              | 3.8  | 123 |
| 283 | Airway Epithelial Barrier Dysfunction in Chronic Obstructive Pulmonary Disease: Role of Cigarette Smoke Exposure. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2018</b> , 58, 157-169           | 5.7  | 116 |
| 282 | A quantitative method for detection of spliced X-box binding protein-1 (XBP1) mRNA as a measure of endoplasmic reticulum (ER) stress. <i>Cell Stress and Chaperones</i> , <b>2012</b> , 17, 275-9                         | 4    | 112 |
| 281 | Processing of seminal plasma hCAP-18 to ALL-38 by gastricsin: a novel mechanism of generating antimicrobial peptides in vagina. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 28540-6                       | 5.4  | 112 |
| 280 | Effect of bariatric surgery on asthma control, lung function and bronchial and systemic inflammation in morbidly obese subjects with asthma. <i>Thorax</i> , <b>2015</b> , 70, 659-67                                     | 7.3  | 110 |
| 279 | Bronchial CD8 cell infiltrate and lung function decline in asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2005</b> , 172, 837-41  | 10.2 | 110 |
| 278 | A dynamic bronchial airway gene expression signature of chronic obstructive pulmonary disease and lung function impairment. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2013</b> , 187, 933-42 | 10.2 | 109 |
| 277 | Brown adipose tissue takes up plasma triglycerides mostly after lipolysis. <i>Journal of Lipid Research</i> , <b>2015</b> , 56, 51-9  | 6.3  | 106 |
| 276 | Genome-wide association analysis identifies six new loci associated with forced vital capacity. <i>Nature Genetics</i> , <b>2014</b> , 46, 669-77   | 36.3 | 104 |
| 275 | Bronchial inflammation and airway responses to deep inspiration in asthma and chronic obstructive pulmonary disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2007</b> , 176, 121-8         | 10.2 | 99  |
| 274 | Effects of cigarette smoke condensate on proliferation and wound closure of bronchial epithelial cells in vitro: role of glutathione. <i>Respiratory Research</i> , <b>2005</b> , 6, 140                                  | 7.3  | 99  |
| 273 | Initiation of apoptosis by actin cytoskeletal derangement in human airway epithelial cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2001</b> , 24, 282-94                                  | 5.7  | 97  |
| 272 | Ubiquicidin, a novel murine microbicidal protein present in the cytosolic fraction of macrophages. <i>Journal of Leukocyte Biology</i> , <b>1999</b> , 66, 423-8  | 6.5  | 94  |
| 271 | Human neutrophil defensins induce lung epithelial cell proliferation in vitro. <i>Journal of Leukocyte Biology</i> , <b>2002</b> , 72, 167-74   | 6.5  | 94  |
| 270 | Effect of neutrophil serine proteinases and defensins on lung epithelial cells: modulation of cytotoxicity and IL-8 production. <i>Journal of Leukocyte Biology</i> , <b>1997</b> , 62, 217-26                            | 6.5  | 93  |

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| 269 | Mechanisms of cell death induced by the neutrophil antimicrobial peptides alpha-defensins and LL-37. <i>Inflammation Research</i> , <b>2006</b> , 55, 119-27   | 7.2  | 91 |
| 268 | Induction of SLPI (ALP/HUSI-I) in epidermal keratinocytes. <i>Journal of Investigative Dermatology</i> , <b>1998</b> , 111, 996-1002   | 4.3  | 89 |
| 267 | LL-37-derived peptides eradicate multidrug-resistant <i>Staphylococcus aureus</i> from thermally wounded human skin equivalents. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2014</b> , 58, 4411-9                             | 5.9  | 88 |
| 266 | Role of polymorphonuclear leukocyte-derived serine proteinases in defense against <i>Actinobacillus actinomycetemcomitans</i> . <i>Infection and Immunity</i> , <b>2006</b> , 74, 5284-91  | 3.7  | 86 |
| 265 | Extracellular matrix composition in COPD. <i>European Respiratory Journal</i> , <b>2012</b> , 40, 1362-73  | 13.6 | 84 |
| 264 | Human lung epithelial cell cultures for analysis of inhaled toxicants: Lessons learned and future directions. <i>Toxicology in Vitro</i> , <b>2018</b> , 47, 137-146   | 3.6  | 83 |
| 263 | Allergen-induced impairment of bronchoprotective nitric oxide synthesis in asthma. <i>Journal of Allergy and Clinical Immunology</i> , <b>2001</b> , 108, 198-204  | 11.5 | 81 |
| 262 | The role of epithelial beta-defensins and cathelicidins in host defense of the lung. <i>Experimental Lung Research</i> , <b>2007</b> , 33, 537-42  | 2.3  | 80 |
| 261 | Eotaxin-2 and eotaxin-3 expression is associated with persistent eosinophilic bronchial inflammation in patients with asthma after allergen challenge. <i>Journal of Allergy and Clinical Immunology</i> , <b>2005</b> , 115, 779-85 | 11.5 | 80 |
| 260 | Vitamin D to prevent exacerbations of COPD: systematic review and meta-analysis of individual participant data from randomised controlled trials. <i>Thorax</i> , <b>2019</b> , 74, 337-345  | 7.3  | 79 |
| 259 | Air-Liquid Interface Models for Respiratory Toxicology Research: Consensus Workshop and Recommendations. <i>Applied in Vitro Toxicology</i> , <b>2018</b> , 4, 91-106  | 1.3  | 78 |
| 258 | Regulation of SLPI and elafin release from bronchial epithelial cells by neutrophil defensins. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2000</b> , 278, L51-8                             | 5.8  | 78 |
| 257 | PRAME-specific Allo-HLA-restricted T cells with potent antitumor reactivity useful for therapeutic T-cell receptor gene transfer. <i>Clinical Cancer Research</i> , <b>2011</b> , 17, 5615-25  | 12.9 | 75 |
| 256 | Airway proteoglycans are differentially altered in fatal asthma. <i>Journal of Pathology</i> , <b>2005</b> , 207, 102-10   | 9.4  | 74 |
| 255 | Electronic cigarettes: a task force report from the European Respiratory Society. <i>European Respiratory Journal</i> , <b>2019</b> , 53,  | 13.6 | 74 |
| 254 | Characterization of mucosal biofilms on human adenoid tissues. <i>Laryngoscope</i> , <b>2008</b> , 118, 128-34   | 3.6  | 73 |
| 253 | Transcriptional response of bronchial epithelial cells to <i>Pseudomonas aeruginosa</i> : identification of early mediators of host defense. <i>Physiological Genomics</i> , <b>2005</b> , 21, 324-36                                | 3.6  | 73 |
| 252 | Recent advances in alveolar biology: evolution and function of alveolar proteins. <i>Respiratory Physiology and Neurobiology</i> , <b>2010</b> , 173 Suppl, S43-54   | 2.8  | 71 |

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| 251 | Asymptomatic worsening of airway inflammation during low-dose allergen exposure in asthma: protection by inhaled steroids. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2002</b> , 166, 294-300 | 10.2 | 70 |
| 250 | A phase I study for intravenous autologous mesenchymal stromal cell administration to patients with severe emphysema. <i>QJM - Monthly Journal of the Association of Physicians</i> , <b>2016</b> , 109, 331-6            | 2.7  | 67 |
| 249 | Inhibition of Activation of the Classical Pathway of Complement by Human Neutrophil Defensins. <i>Blood</i> , <b>1998</b> , 92, 3898-3903   | 2.2  | 67 |
| 248 | Detachment and cytolysis of human endothelial cells by proteinase 3. <i>European Journal of Immunology</i> , <b>1994</b> , 24, 3211-5   | 6.1  | 64 |
| 247 | Regeneration of the lung: Lung stem cells and the development of lung mimicking devices. <i>Respiratory Research</i> , <b>2016</b> , 17, 44   | 7.3  | 64 |
| 246 | Quaking, an RNA-binding protein, is a critical regulator of vascular smooth muscle cell phenotype. <i>Circulation Research</i> , <b>2013</b> , 113, 1065-75   | 15.7 | 63 |
| 245 | Neutrophil defensins stimulate the release of cytokines by airway epithelial cells: modulation by dexamethasone. <i>Inflammation Research</i> , <b>2002</b> , 51, 8-15  | 7.2  | 63 |
| 244 | Activation of complement by human serum IgA, secretory IgA and IgA1 fragments. <i>Molecular Immunology</i> , <b>1988</b> , 25, 527-33   | 4.3  | 63 |
| 243 | An emerging class of air pollutants: Potential effects of microplastics to respiratory human health?. <i>Science of the Total Environment</i> , <b>2020</b> , 749, 141676   | 10.2 | 63 |
| 242 | The human cathelicidin LL-37: a multifunctional peptide involved in infection and inflammation in the lung. <i>Pulmonary Pharmacology and Therapeutics</i> , <b>2005</b> , 18, 321-7                                      | 3.5  | 62 |
| 241 | Apocynin increases glutathione synthesis and activates AP-1 in alveolar epithelial cells. <i>FEBS Letters</i> , <b>1999</b> , 443, 235-9  | 3.8  | 62 |
| 240 | Smoking cessation and bronchial epithelial remodelling in COPD: a cross-sectional study. <i>Respiratory Research</i> , <b>2007</b> , 8, 85  | 7.3  | 61 |
| 239 | Antimicrobial Peptides and Innate Lung Defenses: Role in Infectious and Noninfectious Lung Diseases and Therapeutic Applications. <i>Chest</i> , <b>2016</b> , 149, 545-551   | 5.3  | 59 |
| 238 | 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. <i>Molecular Immunology</i> , <b>2007</b> , 44, 803-11                     | 4.3  | 59 |
| 237 | Assessment of microvascular leakage via sputum induction: the role of substance P and neurokinin A in patients with asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2002</b> , 165, 1275-9 | 10.2 | 59 |
| 236 | Altered macrophage function in chronic obstructive pulmonary disease. <i>Annals of the American Thoracic Society</i> , <b>2013</b> , 10 Suppl, S180-5   | 4.7  | 58 |
| 235 | Demonstration of bacterial cells and glycocalyx in biofilms on human tonsils. <i>JAMA Otolaryngology</i> , <b>2007</b> , 133, 115-21  |      | 58 |
| 234 | Role of defensins in inflammatory lung disease. <i>Annals of Medicine</i> , <b>2002</b> , 34, 96-101  | 1.5  | 58 |

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| 233 | High intensity training in obesity: a Meta-analysis. <i>Obesity Science and Practice</i> , <b>2017</b> , 3, 258-271  | 2.6  | 57 |
| 232 | Microbes and asthma: Opportunities for intervention. <i>Journal of Allergy and Clinical Immunology</i> , <b>2016</b> , 137, 690-7  | 11.5 | 57 |
| 231 | A disintegrin and metalloprotease 33 and chronic obstructive pulmonary disease pathophysiology. <i>Thorax</i> , <b>2007</b> , 62, 242-7  | 7.3  | 57 |
| 230 | The antimicrobial peptide LL-37 enhances IL-8 release by human airway smooth muscle cells. <i>Journal of Allergy and Clinical Immunology</i> , <b>2006</b> , 117, 1328-35  | 11.5 | 57 |
| 229 | TNF- $\alpha$ and IL-1 $\beta$ activated human mesenchymal stromal cells increase airway epithelial wound healing in vitro via activation of the epidermal growth factor receptor. <i>Respiratory Research</i> , <b>2016</b> , 17, 3 | 7.3  | 56 |
| 228 | Virulence Factors of <i>Pseudomonas aeruginosa</i> Induce Both the Unfolded Protein and Integrated Stress Responses in Airway Epithelial Cells. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1004946                                   | 7.6  | 55 |
| 227 | Airway gene expression in COPD is dynamic with inhaled corticosteroid treatment and reflects biological pathways associated with disease activity. <i>Thorax</i> , <b>2014</b> , 69, 14-23   | 7.3  | 54 |
| 226 | Smoking status and anti-inflammatory macrophages in bronchoalveolar lavage and induced sputum in COPD. <i>Respiratory Research</i> , <b>2011</b> , 12, 34  | 7.3  | 54 |
| 225 | Cryptic haplotypes of SERPINA1 confer susceptibility to chronic obstructive pulmonary disease. <i>Human Mutation</i> , <b>2006</b> , 27, 103-9   | 4.7  | 54 |
| 224 | Mesenchymal stromal cells: a novel therapy for the treatment of chronic obstructive pulmonary disease?. <i>Thorax</i> , <b>2018</b> , 73, 565-574  | 7.3  | 53 |
| 223 | Vitamin D reduces eosinophilic airway inflammation in nonatopic asthma. <i>Journal of Allergy and Clinical Immunology</i> , <b>2015</b> , 135, 670-5.e3  | 11.5 | 53 |
| 222 | Muscarinic M $\mu$ receptors contribute to allergen-induced airway remodeling in mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2014</b> , 50, 690-8   | 5.7  | 53 |
| 221 | Localization of gamma-glutamylcysteine synthetase messenger rna expression in lungs of smokers and patients with chronic obstructive pulmonary disease. <i>Free Radical Biology and Medicine</i> , <b>2000</b> , 28, 920-5           | 7.8  | 53 |
| 220 | Suramin Inhibits SARS-CoV-2 Infection in Cell Culture by Interfering with Early Steps of the Replication Cycle. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2020</b> , 64,   | 5.9  | 51 |
| 219 | Expression of smooth muscle and extracellular matrix proteins in relation to airway function in asthma. <i>Journal of Allergy and Clinical Immunology</i> , <b>2008</b> , 121, 1196-202  | 11.5 | 51 |
| 218 | Inhibition of hBD-3, but not hBD-1 and hBD-2, mRNA expression by corticosteroids. <i>Biochemical and Biophysical Research Communications</i> , <b>2001</b> , 280, 522-5  | 3.4  | 51 |
| 217 | 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. <i>Oncotarget</i> , <b>2016</b> , 7, 3477-88                                    | 3.3  | 51 |
| 216 | Defining asthma-COPD overlap syndrome: a population-based study. <i>European Respiratory Journal</i> , <b>2017</b> , 49,   | 13.6 | 50 |

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|-----|--|------|----|
| 215 | Expression of the anaphylatoxin receptors C3aR and C5aR is increased in fatal asthma. <i>Journal of Allergy and Clinical Immunology</i> , <b>2005</b> , 115, 1148-54   | 11.5 | 50 |
| 214 | An airway epithelial IL-17A response signature identifies a steroid-unresponsive COPD patient subgroup. <i>Journal of Clinical Investigation</i> , <b>2019</b> , 129, 169-181  | 15.9 | 50 |
| 213 | Pro-inflammatory mechanisms of muscarinic receptor stimulation in airway smooth muscle. <i>Respiratory Research</i> , <b>2010</b> , 11, 130  | 7.3  | 49 |
| 212 | The complement subcomponent C1q mediates binding of immune complexes and aggregates to endothelial cells in vitro. <i>European Journal of Immunology</i> , <b>1988</b> , 18, 783-7   | 6.1  | 48 |
| 211 | Basal cells contribute to innate immunity of the airway epithelium through production of the antimicrobial protein RNase 7. <i>Journal of Immunology</i> , <b>2015</b> , 194, 3340-50  | 5.3  | 47 |
| 210 | Inhaled nitric oxide attenuates pulmonary inflammation and fibrin deposition and prolongs survival in neonatal hyperoxic lung injury. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2007</b> , 293, L35-44 | 5.8  | 47 |
| 209 | Neutrophil-derived alpha defensins control inflammation by inhibiting macrophage mRNA translation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 4350-5                            | 11.5 | 47 |
| 208 | Small airways dysfunction and neutrophilic inflammation in bronchial biopsies and BAL in COPD. <i>Chest</i> , <b>2007</b> , 131, 53-9  | 5.3  | 46 |
| 207 | Clinical and inflammatory determinants of bronchial hyperresponsiveness in COPD. <i>European Respiratory Journal</i> , <b>2012</b> , 40, 1098-105  | 13.6 | 45 |
| 206 | Profiling the proteome of exhaled breath condensate in healthy smokers and COPD patients by LC-MS/MS. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 13894-910   | 6.3  | 42 |
| 205 | Basic science of electronic cigarettes: assessment in cell culture and in vivo models. <i>Respiratory Research</i> , <b>2016</b> , 17, 127   | 7.3  | 41 |
| 204 | Resveratrol protects against atherosclerosis, but does not add to the antiatherogenic effect of atorvastatin, in APOE*3-Leiden.CETP mice. <i>Journal of Nutritional Biochemistry</i> , <b>2013</b> , 24, 1423-30                                 | 6.3  | 41 |
| 203 | Retinoic acid signaling balances adult distal lung epithelial progenitor cell growth and differentiation. <i>EBioMedicine</i> , <b>2018</b> , 36, 461-474  | 8.8  | 41 |
| 202 | Interactions between neutrophil-derived antimicrobial peptides and airway epithelial cells. <i>Journal of Leukocyte Biology</i> , <b>2005</b> , 77, 444-50   | 6.5  | 40 |
| 201 | Bacterial products increase expression of the human cathelicidin hCAP-18/LL-37 in cultured human sinus epithelial cells. <i>FEMS Immunology and Medical Microbiology</i> , <b>2004</b> , 42, 225-31  |      | 39 |
| 200 | Tumor mutational load, CD8 T cells, expression of PD-L1 and HLA class I to guide immunotherapy decisions in NSCLC patients. <i>Cancer Immunology, Immunotherapy</i> , <b>2020</b> , 69, 771-777  | 7.4  | 39 |
| 199 | Antimicrobial Host Defence Peptides: Immunomodulatory Functions and Translational Prospects. <i>Advances in Experimental Medicine and Biology</i> , <b>2019</b> , 1117, 149-171  | 3.6  | 38 |
| 198 | Underdiagnosis and overdiagnosis of asthma in the morbidly obese. <i>Respiratory Medicine</i> , <b>2013</b> , 107, 1356-64   | 4.6  | 38 |

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|-----|---|------|----|
| 197 | Secondary necrosis of apoptotic neutrophils induced by the human cathelicidin LL-37 is not proinflammatory to phagocytosing macrophages. <i>Journal of Leukocyte Biology</i> , <b>2009</b> , 86, 891-902  | 6.5  | 38 |
| 196 | Tiotropium attenuates IL-13-induced goblet cell metaplasia of human airway epithelial cells. <i>Thorax</i> , <b>2015</b> , 70, 668-76   | 7.3  | 37 |
| 195 | Differential distribution of inflammatory cells in large and small airways in smokers. <i>Journal of Clinical Pathology</i> , <b>2007</b> , 60, 907-11  | 3.9  | 37 |
| 194 | Fully automated assessment of inflammatory cell counts and cytokine expression in bronchial tissue. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2003</b> , 167, 1496-503   | 10.2 | 37 |
| 193 | Genetically programmed differences in epidermal host defense between psoriasis and atopic dermatitis patients. <i>PLoS ONE</i> , <b>2008</b> , 3, e2301   | 3.7  | 36 |
| 192 | Human neutrophil peptide-1 inhibits both the classical and the lectin pathway of complement activation. <i>Molecular Immunology</i> , <b>2007</b> , 44, 3608-14   | 4.3  | 36 |
| 191 | Host defense effector molecules in mucosal secretions. <i>FEMS Immunology and Medical Microbiology</i> , <b>2005</b> , 45, 151-8  |      | 36 |
| 190 | Antimicrobial peptide levels are linked to airway inflammation, bacterial colonisation and exacerbations in chronic obstructive pulmonary disease. <i>European Respiratory Journal</i> , <b>2017</b> , 49,  | 13.6 | 35 |
| 189 | Toll-like receptor (TLR2 and TLR4) polymorphisms and chronic obstructive pulmonary disease. <i>PLoS ONE</i> , <b>2012</b> , 7, e43124   | 3.7  | 35 |
| 188 | The role of IREB2 and transforming growth factor beta-1 genetic variants in COPD: a replication case-control study. <i>BMC Medical Genetics</i> , <b>2011</b> , 12, 24  | 2.1  | 35 |
| 187 | Feasibility study on automated recognition of allergenic pollen: grass, birch and mugwort. <i>Aerobiologia</i> , <b>2006</b> , 22, 275-284  | 2.4  | 35 |
| 186 | Airway hyperresponsiveness in chronic obstructive pulmonary disease: A marker of asthma-chronic obstructive pulmonary disease overlap syndrome?. <i>Journal of Allergy and Clinical Immunology</i> , <b>2016</b> , 138, 1571-1579.e10                                   | 11.5 | 35 |
| 185 | TGF- $\beta$ activation impairs fibroblast ability to support adult lung epithelial progenitor cell organoid formation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2019</b> , 317, L14-L28                                     | 5.8  | 34 |
| 184 | Muscarinic receptor subtype-specific effects on cigarette smoke-induced inflammation in mice. <i>European Respiratory Journal</i> , <b>2013</b> , 42, 1677-88   | 13.6 | 34 |
| 183 | Adenovirus-specific CD4+ T cell clones recognizing endogenous antigen inhibit viral replication in vitro through cognate interaction. <i>Journal of Immunology</i> , <b>2006</b> , 177, 8851-9  | 5.3  | 34 |
| 182 | Epithelial antimicrobial peptides and proteins: their role in host defence and inflammation. <i>Paediatric Respiratory Reviews</i> , <b>2001</b> , 2, 306-10  | 4.8  | 34 |
| 181 | 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. <i>Journal of Innate Immunity</i> , <b>2017</b> , 9, 359-374 | 6.9  | 33 |
| 180 | microRNA profiling in lung tissue and bronchoalveolar lavage of cigarette smoke-exposed mice and in COPD patients: a translational approach. <i>Scientific Reports</i> , <b>2017</b> , 7, 12871   | 4.9  | 33 |

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| 179 | Stem cell-based Lung-on-Chips: The best of both worlds?. <i>Advanced Drug Delivery Reviews</i> , <b>2019</b> , 140, 12-32  | 18.5 | 33 |
| 178 | Comparison of exhaled breath condensate pH using two commercially available devices in healthy controls, asthma and COPD patients. <i>Respiratory Research</i> , <b>2009</b> , 10, 78  | 7.3  | 33 |
| 177 | Pulmonary function testing and complications of laparoscopic bariatric surgery. <i>Obesity Surgery</i> , <b>2013</b> , 23, 1596-603  | 3.7  | 32 |
| 176 | Lack of cathelicidin processing in Papillon-Lefèvre syndrome patients reveals essential role of LL-37 in periodontal homeostasis. <i>Orphanet Journal of Rare Diseases</i> , <b>2014</b> , 9, 148  | 4.2  | 32 |
| 175 | The respiratory virome and exacerbations in patients with chronic obstructive pulmonary disease. <i>PLoS ONE</i> , <b>2019</b> , 14, e0223952  | 3.7  | 30 |
| 174 | Hepatocyte-specific IKK $\beta$ expression aggravates atherosclerosis development in APOE*3-Leiden mice. <i>Atherosclerosis</i> , <b>2012</b> , 220, 362-8   | 3.1  | 30 |
| 173 | Systemic inflammation and lung function impairment in morbidly obese subjects with the metabolic syndrome. <i>Journal of Obesity</i> , <b>2013</b> , 2013, 131349  | 3.7  | 30 |
| 172 | Difference in symptom severity between early and late grass pollen season in patients with seasonal allergic rhinitis. <i>Clinical and Translational Allergy</i> , <b>2011</b> , 1, 18   | 5.2  | 30 |
| 171 | Activation of rat complement by soluble and insoluble rat IgA immune complexes. <i>European Journal of Immunology</i> , <b>1988</b> , 18, 1873-80  | 6.1  | 30 |
| 170 | Cellular response of mucociliary differentiated primary bronchial epithelial cells to diesel exhaust. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2016</b> , 311, L111-23  | 5.8  | 30 |
| 169 | Anti-carbamylated protein antibodies: a specific hallmark for rheumatoid arthritis. Comparison to conditions known for enhanced carbamylation; renal failure, smoking and chronic inflammation. <i>Annals of the Rheumatic Diseases</i> , <b>2016</b> , 75, 1575-6 | 2.4  | 30 |
| 168 | Airway and alveolar epithelial cells in culture. <i>European Respiratory Journal</i> , <b>2019</b> , 54,   | 13.6 | 29 |
| 167 | Effects of daily vitamin D supplementation on respiratory muscle strength and physical performance in vitamin D-deficient COPD patients: a pilot trial. <i>International Journal of COPD</i> , <b>2017</b> , 12, 2583-2592   | 3    | 29 |
| 166 | Role of activin-A in cigarette smoke-induced inflammation and COPD. <i>European Respiratory Journal</i> , <b>2014</b> , 43, 1028-41  | 13.6 | 29 |
| 165 | Aberrant epithelial differentiation by cigarette smoke dysregulates respiratory host defence. <i>European Respiratory Journal</i> , <b>2018</b> , 51,  | 13.6 | 28 |
| 164 | MicroRNA-223 controls the expression of histone deacetylase 2: a novel axis in COPD. <i>Journal of Molecular Medicine</i> , <b>2016</b> , 94, 725-34   | 5.5  | 28 |
| 163 | The integrated stress response in lung disease. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2014</b> , 50, 1005-9   | 5.7  | 28 |
| 162 | Relapse in FEV1 Decline After Steroid Withdrawal in COPD. <i>Chest</i> , <b>2015</b> , 148, 389-396  | 5.3  | 27 |

|     |  |      |    |
|-----|--|------|----|
| 161 | Aberrant DNA methylation and expression of SPDEF and FOXA2 in airway epithelium of patients with COPD. <i>Clinical Epigenetics</i> , <b>2017</b> , 9, 42   | 7.7  | 27 |
| 160 | IL-4 and IL-13 exposure during mucociliary differentiation of bronchial epithelial cells increases antimicrobial activity and expression of antimicrobial peptides. <i>Respiratory Research</i> , <b>2011</b> , 12, 59                             | 7.3  | 27 |
| 159 | The SERPINE2 gene and chronic obstructive pulmonary disease. <i>American Journal of Human Genetics</i> , <b>2006</b> , 79, 184-6; author reply 186-7   | 11   | 27 |
| 158 | Stimulation of the adherence of Haemophilus influenzae to human lung epithelial cells by antimicrobial neutrophil defensins. <i>Journal of Infectious Diseases</i> , <b>1998</b> , 178, 1067-74  | 7    | 27 |
| 157 | Antimicrobial Peptide P60.4Ac-Containing Creams and Gel for Eradication of Methicillin-Resistant Staphylococcus aureus from Cultured Skin and Airway Epithelial Surfaces. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 4063-72 | 5.9  | 27 |
| 156 | Cigarette Smoke Modulates Repair and Innate Immunity following Injury to Airway Epithelial Cells. <i>PLoS ONE</i> , <b>2016</b> , 11, e0166255   | 3.7  | 26 |
| 155 | Lung function decline in asthma patients with elevated bronchial CD8, CD4 and CD3 cells. <i>European Respiratory Journal</i> , <b>2016</b> , 48, 393-402   | 13.6 | 26 |
| 154 | Use of airway epithelial cell culture to unravel the pathogenesis and study treatment in obstructive airway diseases. <i>Pulmonary Pharmacology and Therapeutics</i> , <b>2017</b> , 45, 101-113   | 3.5  | 25 |
| 153 | Bradykinin-induced asthmatic fibroblast/myofibroblast activities via bradykinin B2 receptor and different MAPK pathways. <i>European Journal of Pharmacology</i> , <b>2013</b> , 710, 100-9  | 5.3  | 25 |
| 152 | Mitochondria: at the crossroads of regulating lung epithelial cell function in chronic obstructive pulmonary disease. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2020</b> , 318, L149-L164                | 5.8  | 25 |
| 151 | Genome-Wide Association Study Identification of Novel Loci Associated with Airway Responsiveness in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2015</b> , 53, 226-34            | 5.7  | 24 |
| 150 | microRNA-mRNA regulatory networks underlying chronic mucus hypersecretion in COPD. <i>European Respiratory Journal</i> , <b>2018</b> , 52,   | 13.6 | 24 |
| 149 | Diesel exhaust alters the response of cultured primary bronchial epithelial cells from patients with chronic obstructive pulmonary disease (COPD) to non-typeable Haemophilus influenzae. <i>Respiratory Research</i> , <b>2017</b> , 18, 27       | 7.3  | 24 |
| 148 | Lymphocytic inflammation in childhood bronchiolitis obliterans. <i>Pediatric Pulmonology</i> , <b>2004</b> , 38, 233-9   | 3.5  | 24 |
| 147 | Association of lung function measurements and visceral fat in men with metabolic syndrome. <i>Respiratory Medicine</i> , <b>2014</b> , 108, 351-7  | 4.6  | 23 |
| 146 | Increased ERK signalling promotes inflammatory signalling in primary airway epithelial cells expressing Z $\beta$ -antitrypsin. <i>Human Molecular Genetics</i> , <b>2014</b> , 23, 929-41   | 5.6  | 23 |
| 145 | Cathelicidin peptide LL-37 modulates TREM-1 expression and inflammatory responses to microbial compounds. <i>Inflammation</i> , <b>2011</b> , 34, 412-25   | 5.1  | 23 |
| 144 | $\alpha$ -antitrypsin production by proinflammatory and antiinflammatory macrophages and dendritic cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2012</b> , 46, 607-13   | 5.7  | 23 |

|     |  |      |    |
|-----|--|------|----|
| 143 | Human neutrophil defensins and secretory leukocyte proteinase inhibitor in squamous metaplastic epithelium of bronchial airways. <i>Inflammation Research</i> , <b>2004</b> , 53, 230-8  | 7.2  | 23 |
| 142 | Wnt/βcatenin signaling is critical for regenerative potential of distal lung epithelial progenitor cells in homeostasis and emphysema. <i>Stem Cells</i> , <b>2020</b> , 38, 1467-1478   | 5.8  | 22 |
| 141 | Bone Morphogenetic Protein 9 Protects against Neonatal Hyperoxia-Induced Impairment of Alveolarization and Pulmonary Inflammation. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 486   | 4.6  | 22 |
| 140 | The EvA study: aims and strategy. <i>European Respiratory Journal</i> , <b>2012</b> , 40, 823-9  | 13.6 | 22 |
| 139 | Childhood allergies and asthma: New insights on environmental exposures and local immunity at the lung barrier. <i>Current Opinion in Immunology</i> , <b>2016</b> , 42, 41-47   | 7.8  | 22 |
| 138 | Muscarinic M3 receptors on structural cells regulate cigarette smoke-induced neutrophilic airway inflammation in mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2015</b> , 308, L96-103 | 5.8  | 21 |
| 137 | Involvement of lipooligosaccharides of Haemophilus influenzae and Neisseria meningitidis in defensin-enhanced bacterial adherence to epithelial cells. <i>Microbial Pathogenesis</i> , <b>2003</b> , 34, 121-30                    | 3.8  | 21 |
| 136 | Development and validation of a 5-day-ahead hay fever forecast for patients with grass-pollen-induced allergic rhinitis. <i>International Journal of Biometeorology</i> , <b>2014</b> , 58, 1047-55                                | 3.7  | 20 |
| 135 | Novel genes for airway wall thickness identified with combined genome-wide association and expression analyses. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2015</b> , 191, 547-56                      | 10.2 | 20 |
| 134 | Bronchial and systemic inflammation in morbidly obese subjects with asthma: a biopsy study. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2014</b> , 190, 951-4   | 10.2 | 20 |
| 133 | CD8(+) T cells characterize early smoking-related airway pathology in patients with asthma. <i>Respiratory Medicine</i> , <b>2013</b> , 107, 959-66  | 4.6  | 20 |
| 132 | Proinflammatory Cytokines Impair Vitamin D-Induced Host Defense in Cultured Airway Epithelial Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2017</b> , 56, 749-761                                 | 5.7  | 19 |
| 131 | A novel method for expansion and differentiation of mouse tracheal epithelial cells in culture. <i>Scientific Reports</i> , <b>2018</b> , 8, 7349  | 4.9  | 19 |
| 130 | Cigarette smoke differentially affects IL-13-induced gene expression in human airway epithelial cells. <i>Physiological Reports</i> , <b>2017</b> , 5, e13347  | 2.6  | 19 |
| 129 | Susceptibility to chronic mucus hypersecretion, a genome wide association study. <i>PLoS ONE</i> , <b>2014</b> , 9, e91621   | 3.7  | 19 |
| 128 | Xenobiotic metabolism in differentiated human bronchial epithelial cells. <i>Archives of Toxicology</i> , <b>2017</b> , 91, 2093-2105  | 5.8  | 18 |
| 127 | Inhibition of Activation of the Classical Pathway of Complement by Human Neutrophil Defensins. <i>Blood</i> , <b>1998</b> , 92, 3898-3903  | 2.2  | 18 |
| 126 | Vitamin D, vitamin D binding protein, and longitudinal outcomes in COPD. <i>PLoS ONE</i> , <b>2015</b> , 10, e0121623  | 3.7  | 18 |

|     |   |      |    |
|-----|---|------|----|
| 125 | Azithromycin differentially affects the IL-13-induced expression profile in human bronchial epithelial cells. <i>Pulmonary Pharmacology and Therapeutics</i> , <b>2016</b> , 39, 14-20  | 3.5  | 18 |
| 124 | Aerobic Exercise Protects from Pseudomonas aeruginosa-Induced Pneumonia in Elderly Mice. <i>Journal of Innate Immunity</i> , <b>2018</b> , 10, 279-290  | 6.9  | 18 |
| 123 | Pulmonary function, exhaled nitric oxide and symptoms in asthma patients with obesity: a cross-sectional study. <i>Respiratory Research</i> , <b>2017</b> , 18, 205   | 7.3  | 17 |
| 122 | Immune responses in the treatment of drug-sensitive pulmonary tuberculosis with phenylbutyrate and vitamin D as host directed therapy. <i>BMC Infectious Diseases</i> , <b>2018</b> , 18, 303   | 4    | 17 |
| 121 | Prevention of exacerbations in patients with COPD and vitamin D deficiency through vitamin D supplementation (PRECOVID): a study protocol. <i>BMC Pulmonary Medicine</i> , <b>2015</b> , 15, 106  | 3.5  | 17 |
| 120 | Inhaled steroids modulate extracellular matrix composition in bronchial biopsies of COPD patients: a randomized, controlled trial. <i>PLoS ONE</i> , <b>2013</b> , 8, e63430  | 3.7  | 17 |
| 119 | Multidrug resistance-associated protein-1 (MRP1) genetic variants, MRP1 protein levels and severity of COPD. <i>Respiratory Research</i> , <b>2010</b> , 11, 60   | 7.3  | 17 |
| 118 | Polymeric IgA antibody response to rabbit antithymocyte globulin in renal transplant recipients. <i>Transplantation</i> , <b>1988</b> , 45, 701-5   | 1.8  | 17 |
| 117 | Immunomodulatory innate defence regulator (IDR) peptide alleviates airway inflammation and hyper-responsiveness. <i>Thorax</i> , <b>2018</b> , 73, 908-917  | 7.3  | 17 |
| 116 | In vitro modelling of alveolar repair at the air-liquid interface using alveolar epithelial cells derived from human induced pluripotent stem cells. <i>Scientific Reports</i> , <b>2020</b> , 10, 5499   | 4.9  | 16 |
| 115 | Predictive value of eosinophils and neutrophils on clinical effects of ICS in COPD. <i>Respirology</i> , <b>2018</b> , 23, 1023-1031  | 3.6  | 16 |
| 114 | Therapeutic Application of an Extract of Ameliorates the Development of Allergic Airway Disease. <i>Journal of Immunology</i> , <b>2018</b> , 200, 1570-1579  | 5.3  | 16 |
| 113 | Microtubule dynamics and Rac-1 signaling independently regulate barrier function in lung epithelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2007</b> , 293, L1321-31   | 5.8  | 16 |
| 112 | Blood eosinophil count and airway epithelial transcriptome relationships in COPD versus asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , <b>2020</b> , 75, 370-380   | 9.3  | 16 |
| 111 | Effect of long-term corticosteroid treatment on microRNA and gene-expression profiles in COPD. <i>European Respiratory Journal</i> , <b>2019</b> , 53,  | 13.6 | 15 |
| 110 | Parallel activities and interactions between antimicrobial peptides and complement in host defense at the airway epithelial surface. <i>Molecular Immunology</i> , <b>2015</b> , 68, 28-30  | 4.3  | 15 |
| 109 | ADAM17 and EGFR regulate IL-6 receptor and amphiregulin mRNA expression and release in cigarette smoke-exposed primary bronchial epithelial cells from patients with chronic obstructive pulmonary disease (COPD). <i>Physiological Reports</i> , <b>2016</b> , 4, e12878 | 2.6  | 15 |
| 108 | Neutrophil elastase reduces secretion of secretory leukoproteinase inhibitor (SLPI) by lung epithelial cells: role of charge of the proteinase-inhibitor complex. <i>Respiratory Research</i> , <b>2008</b> , 9, 60   | 7.3  | 15 |

|     |   |      |    |
|-----|---|------|----|
| 107 | Series introduction: Innate host defense of the respiratory epithelium. <i>Journal of Leukocyte Biology</i> , <b>2004</b> , 75, 3-4   | 6.5  | 15 |
| 106 | TGF- $\beta$ Impairs Vitamin D-Induced and Constitutive Airway Epithelial Host Defense Mechanisms. <i>Journal of Innate Immunity</i> , <b>2020</b> , 12, 74-89  | 6.9  | 15 |
| 105 | Dissecting the genetics of chronic mucus hypersecretion in smokers with and without COPD. <i>European Respiratory Journal</i> , <b>2015</b> , 45, 60-75   | 13.6 | 14 |
| 104 | Regulation of YKL-40 expression by corticosteroids: effect on pro-inflammatory macrophages in vitro and its modulation in COPD in vivo. <i>Respiratory Research</i> , <b>2015</b> , 16, 154   | 7.3  | 14 |
| 103 | Nasal Levels of Antimicrobial Peptides in Allergic Asthma Patients and Healthy Controls: Differences and Effect of a Short 1,25(OH) $_2$ Vitamin D3 Treatment. <i>PLoS ONE</i> , <b>2015</b> , 10, e0140986   | 3.7  | 14 |
| 102 | Stimulation of bacterial adherence by neutrophil defensins varies among bacterial species but not among host cell types. <i>FEMS Immunology and Medical Microbiology</i> , <b>2000</b> , 28, 105-11   |      | 14 |
| 101 | Binding of human IgA1 and IgA1 fragments to jacalin. <i>Molecular Immunology</i> , <b>1989</b> , 26, 275-81   | 4.3  | 14 |
| 100 | Cloning of phoM, a gene involved in regulation of the synthesis of phosphate limitation inducible proteins in Escherichia coli K12. <i>Molecular Genetics and Genomics</i> , <b>1984</b> , 195, 190-4   |      | 14 |
| 99  | The effect of PPE-induced emphysema and chronic LPS-induced pulmonary inflammation on atherosclerosis development in APOE*3-LEIDEN mice. <i>PLoS ONE</i> , <b>2013</b> , 8, e80196  | 3.7  | 14 |
| 98  | Dynamic differences in dietary polyunsaturated fatty acid metabolism in sputum of COPD patients and controls. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2019</b> , 1864, 224-233   | 5    | 14 |
| 97  | Airway inflammation in COPD after long-term withdrawal of inhaled corticosteroids. <i>European Respiratory Journal</i> , <b>2017</b> , 49,  | 13.6 | 13 |
| 96  | Sputum microbiota and inflammation at stable state and during exacerbations in a cohort of chronic obstructive pulmonary disease (COPD) patients. <i>PLoS ONE</i> , <b>2019</b> , 14, e0222449  | 3.7  | 13 |
| 95  | Acute and chronic effects of treatment with mesenchymal stromal cells on LPS-induced pulmonary inflammation, emphysema and atherosclerosis development. <i>PLoS ONE</i> , <b>2017</b> , 12, e0183741  | 3.7  | 13 |
| 94  | Effect of diesel exhaust generated by a city bus engine on stress responses and innate immunity in primary bronchial epithelial cell cultures. <i>Toxicology in Vitro</i> , <b>2018</b> , 48, 221-231   | 3.6  | 13 |
| 93  | Standard radiotherapy but not chemotherapy impairs systemic immunity in non-small cell lung cancer. <i>OncImmunology</i> , <b>2016</b> , 5, e1255393  | 7.2  | 13 |
| 92  | The licorice pentacyclic triterpenoid component 18 $\beta$ glycyrrhetic acid enhances the activity of antibiotics against strains of methicillin-resistant Staphylococcus aureus. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , <b>2016</b> , 35, 555-62 | 5.3  | 12 |
| 91  | Development of a nose cream containing the synthetic antimicrobial peptide P60.4Ac for eradication of methicillin-resistant Staphylococcus aureus carriage. <i>Journal of Pharmaceutical Sciences</i> , <b>2013</b> , 102, 3539-44  | 3.9  | 12 |
| 90  | Genetics of glucocorticoids in asthma. <i>New England Journal of Medicine</i> , <b>2011</b> , 365, 2434-5; author reply 2435-6  | 59.2 | 12 |

|    |  |      |    |
|----|--|------|----|
| 89 | Prediction of Long-Term Benefits of Inhaled Steroids by Phenotypic Markers in Moderate-to-Severe COPD: A Randomized Controlled Trial. <i>PLoS ONE</i> , <b>2015</b> , 10, e0143793   | 3.7  | 12 |
| 88 | Local and systemic XAGE-1b-specific immunity in patients with lung adenocarcinoma. <i>Cancer Immunology, Immunotherapy</i> , <b>2015</b> , 64, 1109-21   | 7.4  | 11 |
| 87 | Function of monocytes and monocyte-derived macrophages in $\alpha$ -antitrypsin deficiency. <i>European Respiratory Journal</i> , <b>2015</b> , 45, 365-76   | 13.6 | 11 |
| 86 | Bradykinin B2 receptor expression in the bronchial mucosa of allergic asthmatics: the role of NF- $\kappa$ B. <i>Clinical and Experimental Allergy</i> , <b>2016</b> , 46, 428-38  | 4.1  | 11 |
| 85 | Steroid resistance in COPD? Overlap and differential anti-inflammatory effects in smokers and ex-smokers. <i>PLoS ONE</i> , <b>2014</b> , 9, e87443  | 3.7  | 11 |
| 84 | Antimicrobial peptides in COPD--basic biology and therapeutic applications. <i>Current Drug Targets</i> , <b>2006</b> , 7, 743-50  | 3    | 11 |
| 83 | Rat polymeric IgA binds C1q, but does not activate C1. <i>Molecular Immunology</i> , <b>1990</b> , 27, 867-74  | 4.3  | 11 |
| 82 | Extract of <i>Helicobacter pylori</i> Ameliorates Parameters of Airway Inflammation and Goblet Cell Hyperplasia Following Repeated Allergen Exposure. <i>International Archives of Allergy and Immunology</i> , <b>2019</b> , 180, 1-9 | 3.7  | 10 |
| 81 | Increased expression of granzymes A and B in fatal asthma. <i>European Respiratory Journal</i> , <b>2015</b> , 45, 1485-8  | 8.6  | 10 |
| 80 | Lentiviral small hairpin RNA delivery reduces apical sodium channel activity in differentiated human airway epithelial cells. <i>Journal of Gene Medicine</i> , <b>2012</b> , 14, 733-45   | 3.5  | 10 |
| 79 | pH in exhaled breath condensate and nasal lavage as a biomarker of air pollution-related inflammation in street traffic-controllers and office-workers. <i>Clinics</i> , <b>2013</b> , 68, 1488-94                                     | 2.3  | 10 |
| 78 | Epithelial responses to oxidative stress in chronic obstructive pulmonary disease: lessons from expression profiling. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2007</b> , 175, 527-8                     | 10.2 | 10 |
| 77 | Inhibition of polymorphonuclear leukocyte-mediated endothelial cell detachment by antileukoprotease: a comparison with other proteinase inhibitors. <i>Immunobiology</i> , <b>1991</b> , 182, 117-26                                   | 3.4  | 10 |
| 76 | Microarray Gene Expression Analysis to Evaluate Cell Type Specific Expression of Targets Relevant for Immunotherapy of Hematological Malignancies. <i>PLoS ONE</i> , <b>2016</b> , 11, e0155165  | 3.7  | 10 |
| 75 | Farm dust reduces viral load in human bronchial epithelial cells by increasing barrier function and antiviral responses. <i>Journal of Allergy and Clinical Immunology</i> , <b>2018</b> , 141, 1949-1952.e8                           | 11.5 | 9  |
| 74 | Osteopontin Expression in Small Airway Epithelium in Copd is Dependent on Differentiation and Confined to Subsets of Cells. <i>Scientific Reports</i> , <b>2019</b> , 9, 15566   | 4.9  | 9  |
| 73 | Airway inflammation in COPD after long-term withdrawal of inhaled corticosteroids. <i>European Respiratory Journal</i> , <b>2017</b> , 49,   | 13.6 | 9  |
| 72 | The Effects of Selective Hematopoietic Expression of Human IL-37 on Systemic Inflammation and Atherosclerosis in LDLr-Deficient Mice. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,                           | 6.3  | 9  |

|    |   |      |   |
|----|---|------|---|
| 71 | A new portable sampler to monitor pollen at street level in the environment of patients. <i>Science of the Total Environment</i> , <b>2020</b> , 741, 140404  | 10.2 | 9 |
| 70 | Functional characterisation of bone marrow-derived mesenchymal stromal cells from COPD patients. <i>ERJ Open Research</i> , <b>2016</b> , 2,  | 3.5  | 9 |
| 69 | Airway Epithelial Cell Function and Respiratory Host Defense in Chronic Obstructive Pulmonary Disease. <i>Chinese Medical Journal</i> , <b>2018</b> , 131, 1099-1107  | 2.9  | 9 |
| 68 | Prolonged activation of nasal immune cell populations and development of tissue-resident SARS-CoV-2-specific CD8 T cell responses following COVID-19.. <i>Nature Immunology</i> , <b>2022</b> , 23, 23-32                   | 19.1 | 9 |
| 67 | Effect of an Outpatient Pulmonary Rehabilitation Program on Exercise Tolerance and Asthma Control in Obese Asthma Patients. <i>Journal of Cardiopulmonary Rehabilitation and Prevention</i> , <b>2017</b> , 37, 214-222     | 3.6  | 8 |
| 66 | Associations of Serum 25(OH)D Concentrations with Lung Function, Airway Inflammation and Common Cold in the General Population. <i>Nutrients</i> , <b>2018</b> , 10,  | 6.7  | 8 |
| 65 | Immune cell profile in infantsPlung tissue. <i>Annals of Anatomy</i> , <b>2013</b> , 195, 596-604   | 2.9  | 8 |
| 64 | Multidrug resistance-associated protein 1 and lung function decline with or without long-term corticosteroids treatment in COPD. <i>European Journal of Pharmacology</i> , <b>2012</b> , 696, 136-42                        | 5.3  | 8 |
| 63 | Severe congenital neutropenia in a multigenerational family with a novel neutrophil elastase (ELANE) mutation. <i>Annals of Hematology</i> , <b>2011</b> , 90, 151-8  | 3    | 8 |
| 62 | An antimicrobial peptide modulates epithelial responses to bacterial products. <i>Laryngoscope</i> , <b>2008</b> , 118, 816-20  | 3.6  | 8 |
| 61 | Development of Porous and Flexible PTMC Membranes for In Vitro Organ Models Fabricated by Evaporation-Induced Phase Separation. <i>Membranes</i> , <b>2020</b> , 10,  | 3.8  | 8 |
| 60 | Associations of different body fat deposits with serum 25-hydroxyvitamin D concentrations. <i>Clinical Nutrition</i> , <b>2019</b> , 38, 2851-2857  | 5.9  | 8 |
| 59 | RAGE and TLR4 differentially regulate airway hyperresponsiveness: Implications for COPD. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , <b>2021</b> , 76, 1123-1135                                  | 9.3  | 8 |
| 58 | Impact of the Local Inflammatory Environment on Mucosal Vitamin D Metabolism and Signaling in Chronic Inflammatory Lung Diseases. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 1433                                   | 8.4  | 7 |
| 57 | Exploring host-pathogen interactions at the epithelial surface: application of transcriptomics in lung biology. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2007</b> , 292, L367-77 | 5.8  | 7 |
| 56 | A molecular signature of epithelial host defense: comparative gene expression analysis of cultured bronchial epithelial cells and keratinocytes. <i>BMC Genomics</i> , <b>2006</b> , 7, 9                                   | 4.5  | 7 |
| 55 | Cytokine-dependent proliferation of human CD34+ progenitor cells in the absence of serum is suppressed by their progeny's production of serine proteinases. <i>Stem Cells</i> , <b>2006</b> , 24, 299-306                   | 5.8  | 7 |
| 54 | Response to Comment on "Therapeutic Application of an Extract of Ameliorates the Development of Allergic Airway Disease". <i>Journal of Immunology</i> , <b>2018</b> , 200, 3027-3028                                       | 5.3  | 6 |

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|----|---|------|---|
| 53 | Pre-surgical Pulmonary Rehabilitation in Asthma Patients Undergoing Bariatric Surgery. <i>Obesity Surgery</i> , <b>2017</b> , 27, 3055-3060   | 3.7  | 6 |
| 52 | The effect of tiotropium in combination with olodaterol on house dust mite-induced allergic airway disease. <i>Pulmonary Pharmacology and Therapeutics</i> , <b>2017</b> , 45, 210-217  | 3.5  | 6 |
| 51 | Therapeutic potential of soluble guanylate cyclase modulators in neonatal chronic lung disease. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2015</b> , 309, L1037-40  | 5.8  | 6 |
| 50 | Short-term and long-term effect of a high-intensity pulmonary rehabilitation programme in obese patients with asthma: a randomised controlled trial. <i>European Respiratory Journal</i> , <b>2020</b> , 56,  | 13.6 | 6 |
| 49 | Otological drops containing a novel antibacterial synthetic peptide: Safety and efficacy in adults with chronic suppurative otitis media. <i>PLoS ONE</i> , <b>2020</b> , 15, e0231573  | 3.7  | 6 |
| 48 | Host-microbe cross-talk in the lung microenvironment: implications for understanding and treating chronic lung disease. <i>European Respiratory Journal</i> , <b>2020</b> , 56,   | 13.6 | 5 |
| 47 | Contribution of Host Defence Proteins and Peptides to Host-Microbiota Interactions in Chronic Inflammatory Lung Diseases. <i>Vaccines</i> , <b>2018</b> , 6,  | 5.3  | 5 |
| 46 | Expression patterns of protein C inhibitor in mouse development. <i>Journal of Molecular Histology</i> , <b>2010</b> , 41, 27-37  | 3.3  | 5 |
| 45 | Eosinophil progenitors in sputum: throwing out the baby with the bath water?. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2004</b> , 169, 549-50   | 10.2 | 5 |
| 44 | Expression of beta-defensin-1 in chimpanzee ( <i>Pan troglodytes</i> ) airways. <i>Journal of Medical Primatology</i> , <b>2000</b> , 29, 318-23  | 0.7  | 5 |
| 43 | Increase in net activity of serine proteinases but not gelatinases after local endotoxin exposure in the peripheral airways of healthy subjects. <i>PLoS ONE</i> , <b>2013</b> , 8, e75032  | 3.7  | 5 |
| 42 | Development of an In Vitro Airway Epithelial-Endothelial Cell Culture Model on a Flexible Porous Poly(Trimethylene Carbonate) Membrane Based on Calu-3 Airway Epithelial Cells and Lung Microvascular Endothelial Cells. <i>Membranes</i> , <b>2021</b> , 11,     | 3.8  | 5 |
| 41 | The Dutch National Program for Respiratory Research. <i>Lancet Respiratory Medicine</i> , <b>2016</b> , 4, 356-7  | 35.1 | 5 |
| 40 | Murine models of cardiovascular comorbidity in chronic obstructive pulmonary disease. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2016</b> , 310, L1011-27  | 5.8  | 4 |
| 39 | Reproducibility of exhaled nitric oxide measurements in overweight and obese adults. <i>BMC Research Notes</i> , <b>2014</b> , 7, 775   | 2.3  | 4 |
| 38 | The adaptive response of smokers to oxidative stress: moving from culture to tissue. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2002</b> , 166, 635-6   | 10.2 | 4 |
| 37 | Interstitial Lung Disease in Patients With Systemic Sclerosis: Toward Personalized-Medicine-Based Prediction and Drug Screening Models of Systemic Sclerosis-Related Interstitial Lung Disease (SSc-ILD). <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 1990 | 8.4  | 4 |
| 36 | Modulation of Airway Epithelial Innate Immunity and Wound Repair by M(GM-CSF) and M(M-CSF) Macrophages. <i>Journal of Innate Immunity</i> , <b>2020</b> , 12, 410-421   | 6.9  | 4 |

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|----|---|------|---|
| 35 | Tiotropium and Fluticasone Inhibit Rhinovirus-Induced Mucin Production via Multiple Mechanisms in Differentiated Airway Epithelial Cells. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2020</b> , 10, 278                             | 5.9  | 3 |
| 34 | Recent progress in peptide vaccination in cancer with a focus on non-small-cell lung cancer. <i>Expert Review of Vaccines</i> , <b>2014</b> , 13, 87-116  | 5.2  | 3 |
| 33 | Organoid-based Expansion of Patient-Derived Primary Alveolar Type-2 Cells for Establishment of Alveolus Epithelial Lung-Chip Cultures.. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2022</b> ,                | 5.8  | 3 |
| 32 | Association of Lung Inflammatory Cells with Small Airways Function and Exhaled Breath Markers in Smokers - Is There a Specific Role for Mast Cells?. <i>PLoS ONE</i> , <b>2015</b> , 10, e0129426   | 3.7  | 3 |
| 31 | Determinants of expression of SARS-CoV-2 entry-related genes in upper and lower airways. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , <b>2021</b> ,  | 9.3  | 3 |
| 30 | Adiposity is a confounding factor which largely explains the association of serum vitamin D concentrations with C-reactive protein, leptin and adiponectin. <i>Cytokine</i> , <b>2020</b> , 131, 155104   | 4    | 3 |
| 29 | Disease modeling following organoid-based expansion of airway epithelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2021</b> , 321, L775-L786   | 5.8  | 3 |
| 28 | Role of air pollutants in airway epithelial barrier dysfunction in asthma and COPD.. <i>European Respiratory Review</i> , <b>2022</b> , 31,   | 9.8  | 3 |
| 27 | From the pathophysiology of the human lung alveolus to epigenetic editing: Congress 2018 highlights from ERS Assembly 3 "Basic and Translational Science.". <i>ERJ Open Research</i> , <b>2019</b> , 5,   | 3.5  | 2 |
| 26 | The role of altered stem cell function in airway and alveolar repair and remodelling in COPD <b>2021</b> , 322-339  |      | 2 |
| 25 | Novel insights into surfactant protein C trafficking revealed through the study of a pathogenic mutant. <i>European Respiratory Journal</i> , <b>2021</b> ,   | 13.6 | 2 |
| 24 | Perioperative proADM-change is associated with the development of acute respiratory distress syndrome in critically ill cardiac surgery patients: a prospective cohort study. <i>Biomarkers in Medicine</i> , <b>2019</b> , 13, 1081-1091             | 2.3  | 2 |
| 23 | Increased focus on non-animal models for COVID-19 and non-COVID lung research. <i>European Respiratory Journal</i> , <b>2021</b> , 57,  | 13.6 | 2 |
| 22 | Impact of human airway epithelial cellular composition on SARS-CoV-2 infection biology  |      | 2 |
| 21 | Prediction of Airflow Obstruction and the Risk of Complications in Morbidly Obese Patients Undergoing Bariatric Surgery. <i>Obesity Surgery</i> , <b>2019</b> , 29, 3076-3080   | 3.7  | 1 |
| 20 | Lung epithelial cells interact with immune cells and bacteria to shape the microenvironment in tuberculosis.. <i>Thorax</i> , <b>2022</b> ,   | 7.3  | 1 |
| 19 | Recombinant SLPI: Emphysema and Asthma <b>1999</b> , 55-67  |      | 1 |
| 18 | Comparison of genome-wide gene expression profiling by RNA Sequencing microarray in bronchial biopsies of COPD patients before and after inhaled corticosteroid treatment: does it provide new insights?. <i>ERJ Open Research</i> , <b>2021</b> , 7, | 3.5  | 1 |

|    |  |     |   |
|----|--|-----|---|
| 17 | Personalized Pollen Monitoring and Symptom Scores: A Feasibility Study in Grass Pollen Allergic Patients.. <i>Frontiers in Allergy</i> , <b>2021</b> , 2, 628400   | 0   | 1 |
| 16 | Bronchial gene expression signature associated with rate of subsequent FEV decline in individuals with and at risk of COPD. <i>Thorax</i> , <b>2021</b> ,  | 7.3 | 1 |
| 15 | How to write a response to the reviewers of your manuscript. <i>Breathe</i> , <b>2018</b> , 14, 319-321  | 1.8 | 1 |
| 14 | The Course of A $\alpha$ 1541 as a Proteinase 3 Specific Neo-Epitope after Alpha-1-Antitrypsin Augmentation in Severe Deficient Patients. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22, | 6.3 | 1 |
| 13 | Repairing damaged lungs using regenerative therapy. <i>Current Opinion in Pharmacology</i> , <b>2021</b> , 59, 85-94   | 5.1 | 1 |
| 12 | Kallikrein-related peptidase 5 contributes to the remodeling and repair of bronchial epithelium. <i>FASEB Journal</i> , <b>2021</b> , 35, e21838   | 0.9 | 1 |
| 11 | High miR203a-3p and miR-375 expression in the airways of smokers with and without COPD.. <i>Scientific Reports</i> , <b>2022</b> , 12, 5610  | 4.9 | 1 |
| 10 | Host succinate inhibits influenza virus infection through succinylation and nuclear retention of the viral nucleoprotein.. <i>EMBO Journal</i> , <b>2022</b> , e108306   | 13  | 1 |
| 9  | Macrophage function in chronic obstructive pulmonary disease: The many faces of notch signalling. <i>EBioMedicine</i> , <b>2019</b> , 43, 22-23  | 8.8 | 0 |
| 8  | "Take the active option" to support Healthy Lungs for Life. <i>Breathe</i> , <b>2015</b> , 11, 179-81  | 1.8 | 0 |
| 7  | The lower airways microbiome and antimicrobial peptides in idiopathic pulmonary fibrosis differ from chronic obstructive pulmonary disease.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0262082                        | 3.7 | 0 |
| 6  | Gender specific airway gene expression in COPD sub-phenotypes supports a role of mitochondria and of different types of leukocytes. <i>Scientific Reports</i> , <b>2021</b> , 11, 12848                          | 4.9 | 0 |
| 5  | Assembly 3: Basic and Translational Sciences. <i>Breathe</i> , <b>2018</b> , 14, 67-68   | 1.8 |   |
| 4  | Repair and Defense Systems at the Epithelial Surface in the Lung <b>2005</b> , 201-214   |     |   |
| 3  | Novel roles of anti-proteases in infection and inflammation. <i>Biochemical Society Transactions</i> , <b>2002</b> , 30, A22-A22   | 5.1 |   |
| 2  | Antimicrobial Peptides in Chronic Obstructive Pulmonary Disease <b>2013</b> , 307-320  |     |   |
| 1  | Antimicrobial Peptides of the Respiratory Tract <b>2022</b> , 416-420  |     |   |