

Katherine J Baines

List of Publications by Citations

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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.

93
papers

3,522
citations

35
h-index

57
g-index

116
ext. papers

4,384
ext. citations

5.2
avg, IF

5.49
L-index

#	Paper	IF	Citations
93	Role for NLRP3 Inflammasome-mediated, IL-1 β -Dependent Responses in Severe, Steroid-Resistant Asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017 , 196, 283-297	10.2	206
92	The neutrophilic inflammatory phenotype is associated with systemic inflammation in asthma. <i>Chest</i> , 2012 , 142, 86-93	5.3	202
91	Transcriptional phenotypes of asthma defined by gene expression profiling of induced sputum samples. <i>Journal of Allergy and Clinical Immunology</i> , 2011 , 127, 153-60, 160.e1-9	11.5	198
90	Elevated expression of the NLRP3 inflammasome in neutrophilic asthma. <i>European Respiratory Journal</i> , 2014 , 43, 1067-76	13.6	168
89	Sputum gene expression signature of 6 biomarkers discriminates asthma inflammatory phenotypes. <i>Journal of Allergy and Clinical Immunology</i> , 2014 , 133, 997-1007	11.5	141
88	Airway dysbiosis: Haemophilus influenzae and Tropheryma in poorly controlled asthma. <i>European Respiratory Journal</i> , 2016 , 47, 792-800	13.6	121
87	Neutrophil extracellular traps are associated with inflammation in chronic airway disease. <i>Respirology</i> , 2016 , 21, 467-75	3.6	112
86	Short-chain fatty acids, prebiotics, synbiotics, and systemic inflammation: a systematic review and meta-analysis. <i>American Journal of Clinical Nutrition</i> , 2017 , 106, 930-945	7	107
85	Peripheral blood eosinophils: a surrogate marker for airway eosinophilia in stable COPD. <i>International Journal of COPD</i> , 2016 , 11, 1495-504	3	98
84	Different inflammatory phenotypes in adults and children with acute asthma. <i>European Respiratory Journal</i> , 2011 , 38, 567-74	13.6	95
83	IL-27/IFN- γ induce MyD88-dependent steroid-resistant airway hyperresponsiveness by inhibiting glucocorticoid signaling in macrophages. <i>Journal of Immunology</i> , 2010 , 185, 4401-9	5.3	87
82	Soluble Fibre Meal Challenge Reduces Airway Inflammation and Expression of GPR43 and GPR41 in Asthma. <i>Nutrients</i> , 2017 , 9,	6.7	83
81	The Emerging Role of Neutrophil Extracellular Traps in Respiratory Disease. <i>Chest</i> , 2019 , 156, 774-782	5.3	80
80	Airway IL-1 β and Systemic Inflammation as Predictors of Future Exacerbation Risk in Asthma and COPD. <i>Chest</i> , 2015 , 148, 618-629	5.3	72
79	MicroRNA-125a and -b inhibit A20 and MAVS to promote inflammation and impair antiviral response in COPD. <i>JCI Insight</i> , 2017 , 2, e90443	9.9	70
78	Differential gene expression and cytokine production from neutrophils in asthma phenotypes. <i>European Respiratory Journal</i> , 2010 , 35, 522-31	13.6	66
77	The effect of azithromycin in adults with stable neutrophilic COPD: a double blind randomised, placebo controlled trial. <i>PLoS ONE</i> , 2014 , 9, e105609	3.7	61

76	Innate immune responses are increased in chronic obstructive pulmonary disease. <i>PLoS ONE</i> , 2011 , 6, e18426	3.7	60
75	Anti-inflammatory deficiencies in neutrophilic asthma: reduced galectin-3 and IL-1RA/IL-1 β <i>Respiratory Research</i> , 2015 , 16, 5	7.3	58
74	Systemic inflammation is associated with differential gene expression and airway neutrophilia in asthma. <i>OMICS A Journal of Integrative Biology</i> , 2013 , 17, 187-99	3.8	58
73	Systemic upregulation of neutrophil defensins and serine proteases in neutrophilic asthma. <i>Thorax</i> , 2011 , 66, 942-7	7.3	58
72	Galectin-3 enhances monocyte-derived macrophage efferocytosis of apoptotic granulocytes in asthma. <i>Respiratory Research</i> , 2019 , 20, 1	7.3	53
71	Toll-like receptor 7 gene deficiency and early-life Pneumovirus infection interact to predispose toward the development of asthma-like pathology in mice. <i>Journal of Allergy and Clinical Immunology</i> , 2013 , 131, 1331-9.e10	11.5	49
70	Characteristic DNA methylation profiles in peripheral blood monocytes are associated with inflammatory phenotypes of asthma. <i>Epigenetics</i> , 2014 , 9, 1302-16	5.7	49
69	Differential DNA methylation profiles of infants exposed to maternal asthma during pregnancy. <i>Pediatric Pulmonology</i> , 2014 , 49, 852-62	3.5	48
68	Saturated fatty acids, obesity, and the nucleotide oligomerization domain-like receptor protein 3 (NLRP3) inflammasome in asthmatic patients. <i>Journal of Allergy and Clinical Immunology</i> , 2019 , 143, 305-315	11.5	47
67	Activity and expression of histone acetylases and deacetylases in inflammatory phenotypes of asthma. <i>Clinical and Experimental Allergy</i> , 2014 , 44, 47-57	4.1	47
66	Targeting treatable traits in severe asthma: a randomised controlled trial. <i>European Respiratory Journal</i> , 2020 , 55,	13.6	44
65	Sputum mast cell subtypes relate to eosinophilia and corticosteroid response in asthma. <i>European Respiratory Journal</i> , 2016 , 47, 1123-33	13.6	43
64	Oncostatin M (OSM) is increased in asthma with incompletely reversible airflow obstruction. <i>Experimental Lung Research</i> , 2009 , 35, 781-94	2.3	43
63	Novel immune genes associated with excessive inflammatory and antiviral responses to rhinovirus in COPD. <i>Respiratory Research</i> , 2013 , 14, 15	7.3	40
62	A sputum gene expression signature predicts oral corticosteroid response in asthma. <i>European Respiratory Journal</i> , 2017 , 49,	13.6	40
61	COPD is characterized by increased detection of Haemophilus influenzae, Streptococcus pneumoniae and a deficiency of Bacillus species. <i>Respirology</i> , 2016 , 21, 697-704	3.6	39
60	TNF- α and Macrophages Are Critical for Respiratory Syncytial Virus-Induced Exacerbations in a Mouse Model of Allergic Airways Disease. <i>Journal of Immunology</i> , 2016 , 196, 3547-58	5.3	38
59	Mediators of neutrophil function in children with protracted bacterial bronchitis. <i>Chest</i> , 2014 , 146, 1013-1020	5.920	36

58	Differential neutrophil activation in viral infections: Enhanced TLR-7/8-mediated CXCL8 release in asthma. <i>Respirology</i> , 2016 , 21, 172-9	3.6	35
57	Soluble fibre supplementation with and without a probiotic in adults with asthma: A 7-day randomised, double blind, three way cross-over trial. <i>EBioMedicine</i> , 2019 , 46, 473-485	8.8	34
56	Is Alveolar Macrophage Phagocytic Dysfunction in Children With Protracted Bacterial Bronchitis a Forerunner to Bronchiectasis?. <i>Chest</i> , 2016 , 149, 508-515	5.3	33
55	Influence of age, past smoking, and disease severity on TLR2, neutrophilic inflammation, and MMP-9 levels in COPD. <i>Mediators of Inflammation</i> , 2013 , 2013, 462934	4.3	31
54	A sputum 6-gene signature predicts future exacerbations of poorly controlled asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2019 , 144, 51-60.e11	11.5	31
53	Obese asthmatics are characterized by altered adipose tissue macrophage activation. <i>Clinical and Experimental Allergy</i> , 2018 , 48, 641-649	4.1	29
52	Immune responses of airway neutrophils are impaired in asthma. <i>Experimental Lung Research</i> , 2009 , 35, 554-69	2.3	27
51	Acute exercise is associated with reduced exhaled nitric oxide in physically inactive adults with asthma. <i>Annals of Allergy, Asthma and Immunology</i> , 2015 , 114, 470-9	3.2	23
50	The nutrigenomics of asthma: molecular mechanisms of airway neutrophilia following dietary antioxidant withdrawal. <i>OMICS A Journal of Integrative Biology</i> , 2009 , 13, 355-65	3.8	23
49	Changes in Expression of Genes Regulating Airway Inflammation Following a High-Fat Mixed Meal in Asthmatics. <i>Nutrients</i> , 2016 , 8,	6.7	23
48	Airway responsiveness to mannitol in asthma is associated with chymase-positive mast cells and eosinophilic airway inflammation. <i>Clinical and Experimental Allergy</i> , 2016 , 46, 288-97	4.1	22
47	Impaired lung function is associated with systemic inflammation and macrophage activation. <i>European Respiratory Journal</i> , 2015 , 45, 557-9	13.6	22
46	Sputum ADAM8 expression is increased in severe asthma and COPD. <i>Clinical and Experimental Allergy</i> , 2014 , 44, 342-52	4.1	22
45	Airway gene expression of IL-1 pathway mediators predicts exacerbation risk in obstructive airway disease. <i>International Journal of COPD</i> , 2017 , 12, 541-550	3	21
44	Effects of an Encapsulated Fruit and Vegetable Juice Concentrate on Obesity-Induced Systemic Inflammation: A Randomised Controlled Trial. <i>Nutrients</i> , 2017 , 9,	6.7	20
43	Airway β -Defensin-1 Protein Is Elevated in COPD and Severe Asthma. <i>Mediators of Inflammation</i> , 2015 , 2015, 407271	4.3	20
42	The role of biomarkers in the management of airways disease. <i>International Journal of Tuberculosis and Lung Disease</i> , 2014 , 18, 1264-8	2.1	19
41	A novel immunomodulatory function of neutrophils on rhinovirus-activated monocytes in vitro. <i>Thorax</i> , 2016 , 71, 1039-1049	7.3	16

40	Respiratory viral infections in pregnant women with asthma are associated with wheezing in the first 12 months of life. <i>Pediatric Allergy and Immunology</i> , 2014 , 25, 151-8	4.2	15
39	Neutrophilic asthma is characterised by increased rhinosinusitis with sleep disturbance and GERD. <i>Asian Pacific Journal of Allergy and Immunology</i> , 2014 , 32, 66-74	5.4	13
38	Azithromycin treatment modifies airway and blood gene expression networks in neutrophilic COPD. <i>ERJ Open Research</i> , 2018 , 4,	3.5	13
37	Understanding Xeroderma Pigmentosum Complementation Groups Using Gene Expression Profiling after UV-Light Exposure. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 15985-96	6.3	12
36	Airway cells from protracted bacterial bronchitis and bronchiectasis share similar gene expression profiles. <i>Pediatric Pulmonology</i> , 2018 , 53, 575-582	3.5	11
35	Sputum transcriptomics implicates increased p38 signalling activity in severe asthma. <i>Respirology</i> , 2020 , 25, 709-718	3.6	11
34	Sputum colour can identify patients with neutrophilic inflammation in asthma. <i>BMJ Open Respiratory Research</i> , 2017 , 4, e000236	5.6	10
33	IL-33 is related to innate immune activation and sensitization to HDM in mild steroid-free asthma. <i>Clinical and Experimental Allergy</i> , 2016 , 46, 564-74	4.1	10
32	Hypersegmented airway neutrophils and its association with reduced lung function in adults with obstructive airway disease: an exploratory study. <i>BMJ Open</i> , 2019 , 9, e024330	3	10
31	Relationship of sputum mast cells with clinical and inflammatory characteristics of asthma. <i>Clinical and Experimental Allergy</i> , 2020 , 50, 696-707	4.1	10
30	Multiple inflammasomes may regulate the interleukin-1-driven inflammation in protracted bacterial bronchitis. <i>ERJ Open Research</i> , 2018 , 4,	3.5	9
29	Investigating the effects of arctic dietary intake on lung health. <i>European Journal of Clinical Nutrition</i> , 2015 , 69, 1262-6	5.2	8
28	Dysregulation of sputum columnar epithelial cells and products in distinct asthma phenotypes. <i>Clinical and Experimental Allergy</i> , 2019 , 49, 1418-1428	4.1	8
27	Increased Peripheral Blood Pro-Inflammatory/Cytotoxic Lymphocytes in Children with Bronchiectasis. <i>PLoS ONE</i> , 2015 , 10, e0133695	3.7	8
26	Sputum TNF markers are increased in neutrophilic and severe asthma and are reduced by azithromycin treatment. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021 , 76, 2090-2101	9.3	8
25	Increased asthma and adipose tissue inflammatory gene expression with obesity and Inuit migration to a western country. <i>Respiratory Medicine</i> , 2016 , 111, 8-15	4.6	7
24	Outcomes of protracted bacterial bronchitis in children: A 5-year prospective cohort study. <i>Respirology</i> , 2021 , 26, 241-248	3.6	7
23	Six gene and TH2 signature expression in endobronchial biopsies of participants with asthma. <i>Immunity, Inflammation and Disease</i> , 2020 , 8, 40-49	2.4	6

22	Rosuvastatin, lycopene and omega-3 fatty acids: A potential treatment for systemic inflammation in COPD; a pilot study. <i>Journal of Nutrition & Intermediary Metabolism</i> , 2016 , 5, 86-95	2.8	6
21	Neutrophilic asthma features increased airway classical monocytes. <i>Clinical and Experimental Allergy</i> , 2021 , 51, 305-317	4.1	6
20	Sputum mast cell/basophil gene expression relates to inflammatory and clinical features of severe asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2021 , 148, 428-438	11.5	6
19	Altered Innate Immune Responses in Neutrophils from Patients with Well- and Suboptimally Controlled Asthma. <i>Mediators of Inflammation</i> , 2015 , 2015, 219374	4.3	5
18	Cytokine responses to two common respiratory pathogens in children are dependent on interleukin-1. <i>ERJ Open Research</i> , 2017 , 3,	3.5	4
17	A Sputum 6 Gene Expression Signature Predicts Inflammatory Phenotypes and Future Exacerbations of COPD. <i>International Journal of COPD</i> , 2020 , 15, 1577-1590	3	4
16	Transcriptomics of biopsies identifies novel genes and pathways linked to neutrophilic inflammation in severe asthma. <i>Clinical and Experimental Allergy</i> , 2021 , 51, 1279-1294	4.1	4
15	Parapneumonic Effusions Are Characterized by Elevated Levels of Neutrophil Extracellular Traps. <i>Chest</i> , 2021 , 160, 1645-1655	5.3	4
14	Blood Neutrophils In COPD But Not Asthma Exhibit A Primed Phenotype With Downregulated CD62L Expression. <i>International Journal of COPD</i> , 2019 , 14, 2517-2525	3	4
13	Type 2-low asthma phenotypes by integration of sputum transcriptomics and serum proteomics. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021 , 76, 380-383	9.3	4
12	Endoplasmic reticulum-unfolded protein response signalling is altered in severe eosinophilic and neutrophilic asthma. <i>Thorax</i> , 2021 ,	7.3	4
11	An altered sputum macrophage transcriptome contributes to the neutrophilic asthma endotype. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021 ,	9.3	4
10	The six-gene expression signature in whole sampled sputum provides clinically feasible inflammatory phenotyping of asthma. <i>ERJ Open Research</i> , 2020 , 6,	3.5	3
9	Molecular markers of type 2 airway inflammation are similar between eosinophilic severe asthma and eosinophilic chronic obstructive pulmonary disease. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021 , 76, 2079-2089	9.3	3
8	Biology of Neutrophils 2014 , 280-291		2
7	Children With Asthma Have Impaired Innate Immunity and Increased Numbers of Type 2 Innate Lymphoid Cells Compared With Healthy Controls. <i>Frontiers in Immunology</i> , 2021 , 12, 664668	8.4	2
6	The effects of increasing fruit and vegetable intake in children with asthma: A randomized controlled trial. <i>Clinical and Experimental Allergy</i> , 2021 , 51, 1144-1156	4.1	2
5	Airway monocyte modulation relates to tumour necrosis factor dysregulation in neutrophilic asthma. <i>ERJ Open Research</i> , 2021 , 7,	3.5	1

4	Airway gene expression identifies subtypes of type 2 inflammation in severe asthma. <i>Clinical and Experimental Allergy</i> , 2021 ,	4.1	1
3	Sulforaphane Reduces Pro-Inflammatory Response To Palmitic Acid In Monocytes And Adipose Tissue Macrophages.. <i>Journal of Nutritional Biochemistry</i> , 2022 , 108978	6.3	0
2	Advancing the management of obstructive airways diseases through translational research. <i>Clinical and Experimental Allergy</i> , 2018 , 48, 493-501	4.1	
1	Response.. <i>Chest</i> , 2022 , 161, e251	5.3	