Sebastian L Johnston

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394 papers	31,611 citations	88 h-index	165 g-index
470 ext. papers	36,616 ext. citations	8.1 avg, IF	7.04 L-index

#	Paper	IF	Citations
394	Community study of role of viral infections in exacerbations of asthma in 9-11 year old children. *BMJ: British Medical Journal*, **1995**, 310, 1225-9		1412
393	Asthmatic bronchial epithelial cells have a deficient innate immune response to infection with rhinovirus. *Journal of Experimental Medicine*, **2005**, 201, 937-47	16.6	928
392	Role of deficient type III interferon-lambda production in asthma exacerbations. *Nature Medicine*, **2006**, 12, 1023-6	50.5	800
391	Respiratory viruses, symptoms, and inflammatory markers in acute exacerbations and stable chronic obstructive pulmonary disease. *American Journal of Respiratory and Critical Care Medicine*, **2001**, 164, 1618-23	10.2	742
390	Infections and airway inflammation in chronic obstructive pulmonary disease severe exacerbations. *American Journal of Respiratory and Critical Care Medicine*, **2006**, 173, 1114-21	10.2	731
389	Acute exacerbations of chronic obstructive pulmonary disease: identification of biologic clusters and their biomarkers. *American Journal of Respiratory and Critical Care Medicine*, **2011**, 184, 662-71	10.2	662
388	The ENFUMOSA cross-sectional European multicentre study of the clinical phenotype of chronic severe asthma. European Network for Understanding Mechanisms of Severe Asthma. *European Respiratory Journal*, **2003**, 22, 470-7	13.6	604
387	Early-life respiratory viral infections, atopic sensitization, and risk of subsequent development of persistent asthma. *Journal of Allergy and Clinical Immunology*, **2007**, 119, 1105-10	11.5	549
386	The infant nasopharyngeal microbiome impacts severity of lower respiratory infection and risk of asthma development. *Cell Host and Microbe*, **2015**, 17, 704-15	23.4	512
385	The relationship between upper respiratory infections and hospital admissions for asthma: a time-trend analysis. *American Journal of Respiratory and Critical Care Medicine*, **1996**, 154, 654-60	10.2	458
384	Rhinoviruses infect the lower airways. *Journal of Infectious Diseases*, **2000**, 181, 1875-84	7	445
383	Frequency, severity, and duration of rhinovirus infections in asthmatic and non-asthmatic individuals: a longitudinal cohort study. *Lancet, The*, **2002**, 359, 831-4	40	444
382	Blood eosinophils to direct corticosteroid treatment of exacerbations of chronic obstructive pulmonary disease: a randomized placebo-controlled trial. *American Journal of Respiratory and Critical Care Medicine*, **2012**, 186, 48-55	10.2	400
381	Rhinovirus-induced lower respiratory illness is increased in asthma and related to virus load and Th1/2 cytokine and IL-10 production. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 13562-7	11.5	369
380	IL-33-dependent type 2 inflammation during rhinovirus-induced asthma exacerbations in vivo. *American Journal of Respiratory and Critical Care Medicine*, **2014**, 190, 1373-82	10.2	363
379	Role of respiratory viruses in acute upper and lower respiratory tract illness in the first year of life: a birth cohort study. *Pediatric Infectious Disease Journal*, **2006**, 25, 680-6	3.4	337
378	Study of modifiable risk factors for asthma exacerbations: virus infection and allergen exposure increase the risk of asthma hospital admissions in children. *Thorax*, **2006**, 61, 376-82	7.3	331

377	The role of bacteria in the pathogenesis and progression of idiopathic pulmonary fibrosis. *American Journal of Respiratory and Critical Care Medicine*, **2014**, 190, 906-13	10.2	320
376	Type 1 and type 2 cytokine imbalance in acute respiratory syncytial virus bronchiolitis. *American Journal of Respiratory and Critical Care Medicine*, **2003**, 168, 633-9	10.2	295
375	Mouse models of rhinovirus-induced disease and exacerbation of allergic airway inflammation. *Nature Medicine*, **2008**, 14, 199-204	50.5	285
374	Experimental rhinovirus infection as a human model of chronic obstructive pulmonary disease exacerbation. *American Journal of Respiratory and Critical Care Medicine*, **2011**, 183, 734-42	10.2	283
373	Neutrophil degranulation and cell lysis is associated with clinical severity in virus-induced asthma. *European Respiratory Journal*, **2002**, 19, 68-75	13.6	283
372	Montelukast reduces asthma exacerbations in 2- to 5-year-old children with intermittent asthma. *American Journal of Respiratory and Critical Care Medicine*, **2005**, 171, 315-22	10.2	275
371	Targeting the NF-kappaB pathway in asthma and chronic obstructive pulmonary disease **2009**, 121, 1-13		271
370	Synergism between allergens and viruses and risk of hospital admission with asthma: case-control study. *BMJ, The*, **2002**, 324, 763	5.9	264
369	Outgrowth of the bacterial airway microbiome after rhinovirus exacerbation of chronic obstructive pulmonary disease. *American Journal of Respiratory and Critical Care Medicine*, **2013**, 188, 1224-31	10.2	262
368	Viruses as precipitants of asthma symptoms. I. Epidemiology. *Clinical and Experimental Allergy*, **1992** , 22, 325-36	4.1	258
367	Rhinovirus infection induces expression of its own receptor intercellular adhesion molecule 1 (ICAM-1) via increased NF-kappaB-mediated transcription. *Journal of Biological Chemistry*, **1999**, 274, 9707-20	5.4	255
366	The September epidemic of asthma exacerbations in children: a search for etiology. *Journal of Allergy and Clinical Immunology*, **2005**, 115, 132-8	11.5	249
365	The role of viruses in acute exacerbations of asthma. *Journal of Allergy and Clinical Immunology*, **2010**, 125, 1178-87; quiz 1188-9	11.5	241
364	Personal exposure to nitrogen dioxide (NO2) and the severity of virus-induced asthma in children. *Lancet, The*, **2003**, 361, 1939-44	40	238
363	Co-ordinated role of TLR3, RIG-I and MDA5 in the innate response to rhinovirus in bronchial epithelium. *PLoS Pathogens*, **2010**, 6, e1001178	7.6	236
362	Asthma exacerbations: origin, effect, and prevention. *Journal of Allergy and Clinical Immunology*, **2011**, 128, 1165-74	11.5	235
361	The effect of telithromycin in acute exacerbations of asthma. *New England Journal of Medicine*, **2006**, 354, 1589-600	59.2	229
360	Rhinovirus-induced IL-25 in asthma exacerbation drives type 2 immunity and allergic pulmonary inflammation. *Science Translational Medicine*, **2014**, 6, 256ra134	17.5	227

359	Azithromycin induces anti-viral responses in bronchial epithelial cells. *European Respiratory Journal*, **2010**, 36, 646-54	13.6	219
358	Association of bacteria and viruses with wheezy episodes in young children: prospective birth cohort study. *BMJ, The*, **2010**, 341, c4978	5.9	219
357	Lung microbiome dynamics in COPD exacerbations. *European Respiratory Journal*, **2016**, 47, 1082-92	13.6	206
356	Viruses and bacteria in acute asthma exacerbations--a GA□LEN-DARE systematic review. *Allergy: European Journal of Allergy and Clinical Immunology*, **2011**, 66, 458-68	9.3	192
355	Rhinovirus infection induces degradation of antimicrobial peptides and secondary bacterial infection in chronic obstructive pulmonary disease. *American Journal of Respiratory and Critical Care Medicine*, **2012**, 186, 1117-24	10.2	191
354	Use of polymerase chain reaction for diagnosis of picornavirus infection in subjects with and without respiratory symptoms. *Journal of Clinical Microbiology*, **1993**, 31, 111-7	9.7	190
353	Increased interleukin-4, interleukin-5, and interferon-gamma in airway CD4+ and CD8+ T cells in atopic asthma. *American Journal of Respiratory and Critical Care Medicine*, **2005**, 171, 224-30	10.2	184
352	Toll-like receptor 3 is induced by and mediates antiviral activity against rhinovirus infection of human bronchial epithelial cells. *Journal of Virology*, **2005**, 79, 12273-9	6.6	183
351	The effect of inhaled IFN-□on worsening of asthma symptoms caused by viral infections. A randomized trial. *American Journal of Respiratory and Critical Care Medicine*, **2014**, 190, 145-54	10.2	182
350	A defective type 1 response to rhinovirus in atopic asthma. *Thorax*, **2002**, 57, 328-32	7.3	180
349	Asthma and natural colds. Inflammatory indices in induced sputum: a feasibility study. *American Journal of Respiratory and Critical Care Medicine*, **1998**, 158, 1178-84	10.2	176
348	New year: new editors. *Thorax*, **2003**, 58, 1-2	7.3	174
347	Host DNA released by NETosis promotes rhinovirus-induced type-2 allergic asthma exacerbation. *Nature Medicine*, **2017**, 23, 681-691	50.5	173
346	Respiratory virus induction of alpha-, beta- and lambda-interferons in bronchial epithelial cells and peripheral blood mononuclear cells. *Allergy: European Journal of Allergy and Clinical Immunology*, **2009**, 64, 375-86	9.3	158
345	Rhinovirus 16-induced IFN-□and IFN-□are deficient in bronchoalveolar lavage cells in asthmatic patients. *Journal of Allergy and Clinical Immunology*, **2012**, 129, 1506-1514.e6	11.5	156
344	Impaired innate interferon induction in severe therapy resistant atopic asthmatic children. *Mucosal Immunology*, **2013**, 6, 797-806	9.2	156
343	RSV-specific airway resident memory CD8+ T cells and differential disease severity after experimental human infection. *Nature Communications*, **2015**, 6, 10224	17.4	155
342	Chlamydophila pneumoniae and Mycoplasma pneumoniae: a role in asthma pathogenesis?. *American Journal of Respiratory and Critical Care Medicine*, **2005**, 172, 1078-89	10.2	155

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340	Air pollution and infection in respiratory illness. *British Medical Bulletin*, **2003**, 68, 95-112	5.4	150
339	PMA induces the MUC5AC respiratory mucin in human bronchial epithelial cells, via PKC, EGF/TGF-alpha, Ras/Raf, MEK, ERK and Sp1-dependent mechanisms. *Journal of Molecular Biology*, **2004**, 344, 683-95	6.5	147
338	Role of nasal interleukin-8 in neutrophil recruitment and activation in children with virus-induced asthma. *American Journal of Respiratory and Critical Care Medicine*, **1997**, 155, 1362-6	10.2	145
337	IFN-gamma-induced protein 10 is a novel biomarker of rhinovirus-induced asthma exacerbations. *Journal of Allergy and Clinical Immunology*, **2007**, 120, 586-93	11.5	142
336	Lower airways inflammation during rhinovirus colds in normal and in asthmatic subjects. *American Journal of Respiratory and Critical Care Medicine*, **1995**, 151, 879-86	10.2	140
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334	Important research questions in allergy and related diseases: nonallergic rhinitis: a GA2LEN paper. *Allergy: European Journal of Allergy and Clinical Immunology*, **2008**, 63, 842-53	9.3	137
333	The September epidemic of asthma hospitalization: school children as disease vectors. *Journal of Allergy and Clinical Immunology*, **2006**, 117, 557-62	11.5	135
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331	Rhinoviruses replicate effectively at lower airway temperatures. *Journal of Medical Virology*, **1999**, 58, 100-4	19.7	130
330	MACVIA-ARIA Sentinel NetworK for allergic rhinitis (MASK-rhinitis): the new generation guideline implementation. *Allergy: European Journal of Allergy and Clinical Immunology*, **2015**, 70, 1372-92	9.3	123
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325	Rhinovirus exposure impairs immune responses to bacterial products in human alveolar macrophages. *Thorax*, **2008**, 63, 519-25	7.3	115
324	Review of the molecular and cellular mechanisms of action of glucocorticoids for use in asthma. *Pulmonary Pharmacology and Therapeutics*, **2002**, 15, 35-50	3.5	115

323	Vitamin D modulation of innate immune responses to respiratory viral infections. *Reviews in Medical Virology*, **2017**, 27, e1909	11.7	114
322	Viral infections in allergy and immunology: How allergic inflammation influences viral infections and illness. *Journal of Allergy and Clinical Immunology*, **2017**, 140, 909-920	11.5	113
321	Integrated care pathways for airway diseases (AIRWAYS-ICPs). *European Respiratory Journal*, **2014**, 44, 304-23	13.6	112
320	The E3 ubiquitin ligase midline 1 promotes allergen and rhinovirus-induced asthma by inhibiting protein phosphatase 2A activity. *Nature Medicine*, **2013**, 19, 232-7	50.5	110
319	Human rhinovirus 1B exposure induces phosphatidylinositol 3-kinase-dependent airway inflammation in mice. *American Journal of Respiratory and Critical Care Medicine*, **2008**, 177, 1111-21	10.2	106
318	Novel antiviral properties of azithromycin in cystic fibrosis airway epithelial cells. *European Respiratory Journal*, **2015**, 45, 428-39	13.6	101
317	Rhinovirus-induced interferon production is not deficient in well controlled asthma. *Thorax*, **2014**, 69, 240-6	7.3	101
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315	Corticosteroid suppression of antiviral immunity increases bacterial loads and mucus production in COPD exacerbations. *Nature Communications*, **2018**, 9, 2229	17.4	100
314	Association between respiratory infections in early life and later asthma is independent of virus type. *Journal of Allergy and Clinical Immunology*, **2015**, 136, 81-86.e4	11.5	97
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312	Viruses as precipitants of asthma symptoms. II. Physiology and mechanisms. *Clinical and Experimental Allergy*, **1992**, 22, 809-22	4.1	95
311	The role of viral infections in exacerbations of chronic obstructive pulmonary disease and asthma. *Therapeutic Advances in Respiratory Disease*, **2016**, 10, 158-74	4.9	94
310	Vitamin D increases the antiviral activity of bronchial epithelial cells in´vitro. *Antiviral Research*, **2017**, 137, 93-101	10.8	92
309	Rhinovirus viremia in children with respiratory infections. *American Journal of Respiratory and Critical Care Medicine*, **2005**, 172, 1037-40	10.2	91
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305	The effect of the orally active platelet-activating factor antagonist WEB 2086 in the treatment of asthma. *American Journal of Respiratory and Critical Care Medicine*, **1994**, 149, 1142-8	10.2	85
304	Febrile respiratory illnesses in infancy and atopy are risk factors for persistent asthma and wheeze. *European Respiratory Journal*, **2012**, 39, 876-82	13.6	84
303	Expression of programmed death-1 ligand (PD-L) 1, PD-L2, B7-H3, and inducible costimulator ligand on human respiratory tract epithelial cells and regulation by respiratory syncytial virus and type 1 and 2 cytokines. *Journal of Infectious Diseases*, **2006**, 193, 404-12	7	84
302	Biological exacerbation clusters demonstrate asthma and chronic obstructive pulmonary disease overlap with distinct mediator and microbiome profiles. *Journal of Allergy and Clinical Immunology*, **2018**, 141, 2027-2036.e12	11.5	83
301	Rhinovirus induces MUC5AC in a human infection model and in vitro via NF-κB and EGFR pathways. *European Respiratory Journal*, **2010**, 36, 1425-35	13.6	83
300	Rhinovirus replication in human macrophages induces NF-kappaB-dependent tumor necrosis factor alpha production. *Journal of Virology*, **2006**, 80, 8248-58	6.6	83
299	EAACI position statement on asthma exacerbations and severe asthma. *Allergy: European Journal of Allergy and Clinical Immunology*, **2013**, 68, 1520-31	9.3	81
298	An experimental model of rhinovirus induced chronic obstructive pulmonary disease exacerbations: a pilot study. *Respiratory Research*, **2006**, 7, 116	7.3	80
297	Airway Microbiota Dynamics Uncover a Critical Window for Interplay of Pathogenic Bacteria and Allergy in Childhood Respiratory Disease. *Cell Host and Microbe*, **2018**, 24, 341-352.e5	23.4	80
296	Frequency of detection of picornaviruses and seven other respiratory pathogens in infants. *Pediatric Infectious Disease Journal*, **2005**, 24, 611-6	3.4	79
295	Thorax update for the 60th year (October 2005–September 2006). *Thorax*, **2006**, 61, 1035-1036	7.3	78
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293	Thorax Annual Report October 2004–September 2005. *Thorax*, **2005**, 60, 987-988	7.3	78
292	Oral oseltamivir improves pulmonary function and reduces exacerbation frequency for influenza-infected children with asthma. *Pediatric Infectious Disease Journal*, **2005**, 24, 225-32	3.4	77
291	Amplified rhinovirus colds in atopic subjects. *Clinical and Experimental Allergy*, **1994**, 24, 457-64	4.1	77
290	The emerging role of microRNAs in regulating immune and inflammatory responses in the lung. *Immunological Reviews*, **2013**, 253, 198-215	11.3	76
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288	Overview of virus-induced airway disease. *Proceedings of the American Thoracic Society*, **2005**, 2, 150-6		75

287	Azithromycin for Acute Exacerbations of Asthma : The AZALEA Randomized Clinical Trial. *JAMA Internal Medicine*, **2016**, 176, 1630-1637	11.5	73
286	Innate immunity in the pathogenesis of virus-induced asthma exacerbations. *Proceedings of the American Thoracic Society*, **2007**, 4, 267-70		73
285	Respiratory epithelial cell expression of vascular cell adhesion molecule-1 and its up-regulation by rhinovirus infection via NF-kappaB and GATA transcription factors. *Journal of Biological Chemistry*, **1999**, 274, 30041-51	5.4	73
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282	Etiology of asthma exacerbations. *Journal of Allergy and Clinical Immunology*, **2008**, 122, 685-688	11.5	72
281	The immunology of virus infection in asthma. *European Respiratory Journal*, **2001**, 18, 1013-25	13.6	72
280	Lung microbiology and exacerbations in COPD. *International Journal of COPD*, **2012**, 7, 555-69	3	71
279	Development and implementation of guidelines in allergic rhinitis an ARIA-GA2LEN paper. *Allergy: European Journal of Allergy and Clinical Immunology*, **2010**, 65, 1212-21	9.3	71
278	RANTES, macrophage-inhibitory protein 1alpha, and the eosinophil product major basic protein are released into upper respiratory secretions during virus-induced asthma exacerbations in children. *Journal of Infectious Diseases*, **1999**, 179, 677-81	7	71
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274	Natural and experimental rhinovirus infections of the lower respiratory tract. *American Journal of Respiratory and Critical Care Medicine*, **1995**, 152, S46-52	10.2	69
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272	Defining critical roles for NF-B p65 and type I interferon in innate immunity to rhinovirus. *EMBO Molecular Medicine*, **2012**, 4, 1244-60	12	68
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270	Mechanisms of rhinovirus-induced asthma. *Paediatric Respiratory Reviews*, **2004**, 5, 255-60	4.8	68

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268	Role of viral infections, atopy and antiviral immunity in the etiology of wheezing exacerbations among children and young adults. *Pediatric Infectious Disease Journal*, **2005**, 24, S217-22, discussion S220-1	3.4	66
267	Rhinovirus infection causes steroid resistance in airway epithelium through nuclear factor B and c-Jun N-terminal kinase activation. *Journal of Allergy and Clinical Immunology*, **2013**, 132, 1075-1085.e6	11.5	65
266	Research in progress: Medical Research Council United Kingdom Refractory Asthma Stratification Programme (RASP-UK). *Thorax*, **2016**, 71, 187-9	7.3	64
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264	Assessing the association of early life antibiotic prescription with asthma exacerbations, impaired antiviral immunity, and genetic variants in 17q21: a population-based birth cohort study. *Lancet Respiratory Medicine,the*, **2014**, 2, 621-30	35.1	62
263	Detection of rhinovirus infection of the nasal mucosa by oligonucleotide in situ hybridization. *American Journal of Respiratory Cell and Molecular Biology*, **1994**, 10, 207-13	5.7	62
262	Inhaled corticosteroids downregulate the SARS-CoV-2 receptor ACE2 in COPD through suppression of type I interferon. *Journal of Allergy and Clinical Immunology*, **2021**, 147, 510-519.e5	11.5	61
261	Effectiveness of Influenza Vaccines in Asthma: A Systematic Review and Meta-Analysis. *Clinical Infectious Diseases*, **2017**, 65, 1388-1395	11.6	60
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258	Aetiological role of viral and bacterial infections in acute adult lower respiratory tract infection (LRTI) in primary care. *Thorax*, **2006**, 61, 75-9	7.3	59
257	Prostaglandin D2-induced bronchoconstriction is mediated only in part by the thromboxane prostanoid receptor. *European Respiratory Journal*, **1995**, 8, 411-5	13.6	59
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255	Challenges in developing a cross-serotype rhinovirus vaccine. *Current Opinion in Virology*, **2015**, 11, 83-8	7.5	58
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253	Rhinoviruses induce interleukin-8 mRNA and protein production in human monocytes. *Journal of Infectious Diseases*, **1997**, 175, 323-9	7	57
252	Increased proinflammatory responses from asthmatic human airway smooth muscle cells in response to rhinovirus infection. *Respiratory Research*, **2006**, 7, 71	7.3	57

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250	An anti-human ICAM-1 antibody inhibits rhinovirus-induced exacerbations of lung inflammation. *PLoS Pathogens*, **2013**, 9, e1003520	7.6	56
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239	Neonatal bronchial hyperresponsiveness precedes acute severe viral bronchiolitis in infants. *Journal of Allergy and Clinical Immunology*, **2012**, 130, 354-61.e3	11.5	53
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234	The role of IL-15 deficiency in the pathogenesis of virus-induced asthma exacerbations. *PLoS Pathogens*, **2011**, 7, e1002114	7.6	51

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228	Rhinovirus identification by BglI digestion of picornavirus RT-PCR amplicons. *Journal of Virological Methods*, **1999**, 80, 179-85	2.6	50
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223	Effect of desloratadine and loratadine on rhinovirus-induced intercellular adhesion molecule 1 upregulation and promoter activation in respiratory epithelial cells. *Journal of Allergy and Clinical Immunology*, **2001**, 108, 221-8	11.5	45
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