Michael Robert Edwards

List of Publications by Year
in descending order

86 papers	8,113 citations	71102 41 h-index	64796 79 g-index
89 all docs	89 docs citations	89 times ranked	9317 citing authors

#	Article	IF	Citations
1	Role of deficient type III interferon-Î» production in asthma exacerbations. Nature Medicine, 2006, 12, 1023-1026.	30.7	955
2	The Airway Epithelium: Soldier in the Fight against Respiratory Viruses. Clinical Microbiology Reviews, 2011, 24, 210-229.	13.6	541
3	IL-33â€"Dependent Type 2 Inflammation during Rhinovirus-induced Asthma Exacerbations <i>In Vivo</i>. American Journal of Respiratory and Critical Care Medicine, 2014, 190, 1373-1382.	5.6	500
4	Experimental Rhinovirus Infection as a Human Model of Chronic Obstructive Pulmonary Disease Exacerbation. American Journal of Respiratory and Critical Care Medicine, 2011, 183, 734-742.	5.6	349
5	Mouse models of rhinovirus-induced disease and exacerbation of allergic airway inflammation. Nature Medicine, 2008, 14, 199-204.	30.7	339
6	Targeting the NF-ÎºB pathway in asthma and chronic obstructive pulmonary disease. , 2009, 121, 1-13.		323
7	Co-ordinated Role of TLR3, RIG-I and MDA5 in the Innate Response to Rhinovirus in Bronchial Epithelium. PLoS Pathogens, 2010, 6, e1001178.	4.7	286
8	Rhinovirus-induced IL-25 in asthma exacerbation drives type 2 immunity and allergic pulmonary inflammation. Science Translational Medicine, 2014, 6, 256ra134.	12.4	280
9	Azithromycin induces anti-viral responses in bronchial epithelial cells. European Respiratory Journal, 2010, 36, 646-654.	6.7	270
10	Host DNA released by NETosis promotes rhinovirus-induced type-2 allergic asthma exacerbation. Nature Medicine, 2017, 23, 681-691.	30.7	260
11	Toll-Like Receptor 3 Is Induced by and Mediates Antiviral Activity against Rhinovirus Infection of Human Bronchial Epithelial Cells. Journal of Virology, 2005, 79, 12273-12279.	3.4	210
12	Impaired innate interferon induction in severe therapy resistant atopic asthmatic children. Mucosal Immunology, 2013, 6, 797-806.	6.0	198
13	Respiratory virus induction of alphaâ€, betaâ€•and lambdaâ€•interferons in bronchial epithelial cells and peripheral blood mononuclear cells. Allergy: European Journal of Allergy and Clinical Immunology, 2009, 64, 375-386.	5.7	192
14	Rhinovirus 16â€"induced IFN-Î± and IFN-Î² are deficient in bronchoalveolar lavage cells in asthmatic patients. Journal of Allergy and Clinical Immunology, 2012, 129, 1506-1514.e6.	2.9	190
15	Viral infections in allergy and immunology: How allergic inflammation influences viral infections and illness. Journal of Allergy and Clinical Immunology, 2017, 140, 909-920.	2.9	178
16	The microbiology of asthma. Nature Reviews Microbiology, 2012, 10, 459-471.	28.6	170
17	Corticosteroid suppression of antiviral immunity increases bacterial loads and mucus production in COPD exacerbations. Nature Communications, 2018, 9, 2229.	12.8	153
18	Novel antiviral properties of azithromycin in cystic fibrosis airway epithelial cells. European Respiratory Journal, 2015, 45, 428-439.	6.7	134

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19	Vitamin D increases the antiviral activity of bronchial epithelial cells inÂvitro. Antiviral Research, 2017, 137, 93-101.	4.1	123
20	Rhinovirus-induced interferon production is not deficient in well controlled asthma. Thorax, 2014, 69, 240-246.	5.6	121
21	Rhinovirus induces MUC5AC in a human infection model and in vitro via NF-ÂB and EGFR pathways. European Respiratory Journal, 2010, 36, 1425-1435.	6.7	99
22	Combination Therapy. American Journal of Respiratory Cell and Molecular Biology, 2006, 34, 616-624.	2.9	97
23	Rhinovirus Replication in Human Macrophages Induces NF-ÎºB-Dependent Tumor Necrosis Factor Alpha Production. Journal of Virology, 2006, 80, 8248-8258.	3.4	93
24	The role of macrolides in asthma: current evidence and future directions. Lancet Respiratory Medicine,the, 2014, 2, 657-670.	10.7	89
25	Increased nuclear suppressor of cytokine signaling 1 in asthmatic bronchial epithelium suppresses rhinovirus induction of innate interferons. Journal of Allergy and Clinical Immunology, 2015, 136, 177-188.e11.	2.9	89
26	Defining critical roles for NFâ€ÎºB p65 and type I interferon in innate immunity to rhinovirus. EMBO Molecular Medicine, 2012, 4, 1244-1260.	6.9	80
27	Obesity and susceptibility to severe outcomes following respiratory viral infection. Thorax, 2013, 68, 684-686.	5.6	76
28	Inhaled corticosteroid suppression of cathelicidin drives dysbiosis and bacterial infection in chronic obstructive pulmonary disease. Science Translational Medicine, 2019, 11, .	12.4	75
29	Cytokine Responses to Rhinovirus and Development of Asthma, Allergic Sensitization, and Respiratory Infections during Childhood. American Journal of Respiratory and Critical Care Medicine, 2018, 197, 1265-1274.	5.6	73
30	Mucosal Type 2 Innate Lymphoid Cells Are a Key Component of the Allergic Response to Aeroallergens. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 1586-1596.	5.6	71
31	Corticosteroids and Î²2 Agonists Differentially Regulate Rhinovirus-induced Interleukin-6 via Distinct Cis-acting Elements. Journal of Biological Chemistry, 2007, 282, 15366-15375.	3.4	68
32	RSV-Induced Bronchial Epithelial Cell PD-L1 Expression Inhibits CD8+ T Cell Nonspecific Antiviral Activity. Journal of Infectious Diseases, 2011, 203, 85-94.	4.0	66
33	Bronchial mucosal IFN-Î±/Î² and pattern recognition receptor expression in patients with experimental rhinovirus-induced asthma exacerbations. Journal of Allergy and Clinical Immunology, 2019, 143, 114-125.e4.	2.9	65
34	The Role of IL-15 Deficiency in the Pathogenesis of Virus-Induced Asthma Exacerbations. PLoS Pathogens, 2011, 7, e1002114.	4.7	58
35	Role of Xanthine Oxidase Activation and Reduced Glutathione Depletion in Rhinovirus Induction of Inflammation in Respiratory Epithelial Cells. Journal of Biological Chemistry, 2008, 283, 28595-28606.	3.4	50
36	Innate activation of human primary epithelial cells broadens the host response to Mycobacterium tuberculosis in the airways. PLoS Pathogens, 2017, 13, e1006577.	4.7	48

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37	CXC chemokines and antimicrobial peptides in rhinovirusâ€induced experimental asthma exacerbations. Clinical and Experimental Allergy, 2014, 44, 930-939.	2.9	47
38	IL-15 complexes induce NK- and T-cell responses independent of type I IFN signaling during rhinovirus infection. Mucosal Immunology, 2014, 7, 1151-1164.	6.0	47
39	Addressing unmet needs in understanding asthma mechanisms. European Respiratory Journal, 2017, 49, 1602448.	6.7	47
40	Retinoic Acid-inducible Gene I-inducible miR-23b Inhibits Infections by Minor Group Rhinoviruses through Down-regulation of the Very Low Density Lipoprotein Receptor. Journal of Biological Chemistry, 2011, 286, 26210-26219.	3.4	45
41	Lack of an exaggerated inflammatory response on virus infection in cystic fibrosis. European Respiratory Journal, 2012, 39, 297-304.	6.7	43
42	The influence of asthma control on the severity of virus-induced asthma exacerbations. Journal of Allergy and Clinical Immunology, 2015, 136, 497-500.e3.	2.9	42
43	Human Rhinovirus Impairs the Innate Immune Response to Bacteria in Alveolar Macrophages in Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 1496-1507.	5.6	42
44	Protein kinase R, IÎºB kinase-Î² and NF-ÎºB are required for human rhinovirus induced pro-inflammatory cytokine production in bronchial epithelial cells. Molecular Immunology, 2007, 44, 1587-1597.	2.2	41
45	RSV infection modulates IL-15 production and MICA levels in respiratory epithelial cells. European Respiratory Journal, 2012, 39, 712-720.	6.7	41
46	Identification of novel macrolides with antibacterial, anti-inflammatory and type I and III IFN-augmenting activity in airway epithelium. Journal of Antimicrobial Chemotherapy, 2016, 71, 2767-2781.	3.0	40
47	TLR3, TLR4 and TLRs7â€“9 Induced Interferons Are Not Impaired in Airway and Blood Cells in Well Controlled Asthma. PLoS ONE, 2013, 8, e65921.	2.5	39
48	Role of Interleukin-1 and MyD88-Dependent Signaling in Rhinovirus Infection. Journal of Virology, 2011, 85, 7912-7921.	3.4	38
49	Airway Epithelial Cells Generate Pro-inflammatory Tenascin-C and Small Extracellular Vesicles in Response to TLR3 Stimuli and Rhinovirus Infection. Frontiers in Immunology, 2019, 10, 1987.	4.8	38
50	The microaerophilic flagellate Giardia intestinalis: oxygen and its reaction products collapse membrane potential and cause cytotoxicity. Microbiology (United Kingdom), 2000, 146, 3109-3118.	1.8	38
51	IL-1Î² induces IL-8 in bronchial cells via NF-ÎºB and NF-IL6 transcription factors and can be suppressed by glucocorticoids. Pulmonary Pharmacology and Therapeutics, 2005, 18, 337-345.	2.6	36
52	Impaired type I and type III interferon induction and rhinovirus control in human cystic fibrosis airway epithelial cells. Thorax, 2012, 67, 517-525.	5.6	36
53	Analysis of IgE Antibodies from a Patient with Atopic Dermatitis: Biased V Gene Usage and Evidence for Polyreactive IgE Heavy Chain Complementarity-Determining Region 3. Journal of Immunology, 2002, 168, 6305-6313.	0.8	34
54	Mechanisms of adverse effects of Â-agonists in asthma. Thorax, 2009, 64, 739-741.	5.6	33

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55	Viral Toll Like Receptor activation of pulmonary vascular smooth muscle cells results in endothelin-1 generation; relevance to pathogenesis of pulmonary arterial hypertension. Biochemical and Biophysical Research Communications, 2012, 426, 486-491.	2.1	33
56	New treatment regimes for virus-induced exacerbations of asthma. Pulmonary Pharmacology and Therapeutics, 2006, 19, 320-334.	2.6	30
57	The â€˜primitiveâ€™ microaerophile Giardia intestinalis (syn. lamblia, duodenalis) has specialized membranes with electron transport and membrane-potential-generating functions. Microbiology (United) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.8	30
58	Interferon response of the cystic fibrosis bronchial epithelium to major and minor group rhinovirus infection. Journal of Cystic Fibrosis, 2016, 15, 332-339.	0.7	28
59	Innate Immune Response to Viral Infections in Primary Bronchial Epithelial Cells is Modified by the Atopic Status of Asthmatic Patients. Allergy, Asthma and Immunology Research, 2018, 10, 144.	2.9	23
60	Development and characterization of DNAzyme candidates demonstrating significant efficiency against human rhinoviruses. Journal of Allergy and Clinical Immunology, 2019, 143, 1403-1415.	2.9	23
61	Pulmonary Innate Lymphoid Cell Responses during Rhinovirus-induced Asthma Exacerbations<i>InÂVivo</i>: A Clinical Trial. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 1259-1273.	5.6	22
62	Signalling pathways mediating type I interferon gene expression. Microbes and Infection, 2007, 9, 1245-1251.	1.9	21
63	Interleukin-18 Is Associated With Protection Against Rhinovirus-Induced Colds and Asthma Exacerbations. Clinical Infectious Diseases, 2015, 60, 1528-1531.	5.8	19
64	Î²₂-Agonists Enhance Asthma-Relevant Inflammatory Mediators in Human Airway Epithelial Cells. American Journal of Respiratory Cell and Molecular Biology, 2018, 58, 128-132.	2.9	17
65	miR-122 promotes virus-induced lung disease by targeting SOCS1. JCI Insight, 2021, 6, .	5.0	17
66	Pathogen Sensing Pathways in Human Embryonic Stem Cell Derived-Endothelial Cells: Role of NOD1 Receptors. PLoS ONE, 2014, 9, e91119.	2.5	16
67	Reduced sputum expression of interferon-stimulated genes in severe COPD. International Journal of COPD, 2016, Volume 11, 1485-1494.	2.3	16
68	Antiâ€inflammatory effects of the novel inhaled phosphodiesterase type 4 inhibitor <scp>CHF</scp>6001 on virusâ€inducible cytokines. Pharmacology Research and Perspectives, 2016, 4, e00202.	2.4	16
69	Interferonâ€lambda as a new approach for treatment of allergic asthma?. EMBO Molecular Medicine, 2011, 3, 306-308.	6.9	15
70	Anti-viral agents: potential utility in exacerbations of asthma. Current Opinion in Pharmacology, 2013, 13, 331-336.	3.5	14
71	Rhinovirus-induced CCL17 and CCL22 in Asthma Exacerbations and Differential Regulation by STAT6. American Journal of Respiratory Cell and Molecular Biology, 2021, 64, 344-356.	2.9	13
72	Virus-induced Volatile Organic Compounds Are Detectable in Exhaled Breath during Pulmonary Infection. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 1075-1085.	5.6	13

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73	Valency or wÃhlency: Is the epitope diversity of the Bâ€cell response regulated or chemically determined?. Immunology and Cell Biology, 2001, 79, 507-511.	2.3	7
74	Rhinovirus induction of fractalkine (CX3CL1) in airway and peripheral blood mononuclear cells in asthma. PLoS ONE, 2017, 12, e0183864.	2.5	7
75	Effect of CRTH2 antagonism on the response to experimental rhinovirus infection in asthma: a pilot randomised controlled trial. Thorax, 2022, 77, 950-959.	5.6	7
76	Deficient interferon in virusâ€induced asthma exacerbations. Clinical and Experimental Allergy, 2008, 38, 1416-1418.	2.9	6
77	Sex differences in innate anti-viral immune responses to respiratory viruses and in their clinical outcomes in a birth cohort study. Scientific Reports, 2021, 11, 23741.	3.3	6
78	The Airway Epithelium: Soldier in the Fight against Respiratory Viruses. Clinical Microbiology Reviews, 2011, 24, 631-631.	13.6	5
79	Exacerbations of chronic respiratory diseases. , 2019, , 137-168.		3
80	Type I conventional dendritic cells relate to disease severity in virusâ€induced asthma exacerbations. Clinical and Experimental Allergy, 2022, 52, 550-560.	2.9	3
81	ATS Abstract: IKK-ÃŸ Is Required For Rhinovirus Induced IFN-ÃŸ, IFN-Â» And Pro-inflammatory Cytokine Production In Vitro And In Vivo. , 2010, , .		0
82	Type I Interferon Regulates Antiviral And Inflammatory Responses To Rhinovirus Infection In Vivo. , 2011, , .		0
83	Nuclear Suppressor Of Cytokine Signalling-1 Suppresses Rhinovirus Induced Interferon Expression And Is Associated With Impaired Interferon Expression In Asthma. , 2012, , .		0
84	Reduced NF-ÂºB P65 Expression Inhibits Rhinovirus-Induced Inflammation Without Compromising Antiviral Immunity. , 2012, , .		0
85	Rhinovirus Induced Type 1 Interferon (-Î± And â€"Î²) Are Deficient In BAL Cells In Asthma But Interferon Induction Pathways Appear Intact. , 2012, , .		0
86	Rhinovirus Induces IL-4, IL-5 And IL-13 In The Airways In Asthma But Not In Non-Atopic Subjects. , 2012, , .		0