

# Matthias Salathe

## List of Publications by Year in descending order

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99  
papers

5,104  
citations

81900

39  
h-index

91884

69  
g-index

101  
all docs

101  
docs citations

101  
times ranked

5623  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of Mammalian Ciliary Beating. <i>Annual Review of Physiology</i> , 2007, 69, 401-422.	13.1	346
2	Adult Patients With Bronchiectasis. <i>Chest</i> , 2017, 151, 982-992.	0.8	282
3	Chronic electronic cigarette exposure in mice induces features of COPD in a nicotine-dependent manner. <i>Thorax</i> , 2016, 71, 1119-1129.	5.6	247
4	Regulated Hydrogen Peroxide Production by Duox in Human Airway Epithelial Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2005, 32, 462-469.	2.9	219
5	Randomized Trial of Liposomal Amikacin for Inhalation in Nontuberculous Mycobacterial Lung Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 195, 814-823.	5.6	212
6	Lactoperoxidase and Human Airway Host Defense. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2003, 29, 206-212.	2.9	194
7	Pannexin 1 Contributes to ATP Release in Airway Epithelia. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009, 41, 525-534.	2.9	188
8	The Lactoperoxidase System Functions in Bacterial Clearance of Airways. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2000, 22, 665-671.	2.9	161
9	Hyaluronan serves a novel role in airway mucosal host defense. <i>FASEB Journal</i> , 2001, 15, 2179-2186.	0.5	108
10	The lactoperoxidase system links anion transport to host defense in cystic fibrosis. <i>FEBS Letters</i> , 2007, 581, 271-278.	2.8	107
11	Epithelial Organic Cation Transporters Ensure pH-Dependent Drug Absorption in the Airway. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2007, 36, 53-60.	2.9	104
12	Soluble Adenylyl Cyclase Is Localized to Cilia and Contributes to Ciliary Beat Frequency Regulation via Production of cAMP. <i>Journal of General Physiology</i> , 2007, 130, 99-109.	1.9	99
13	Transcellular thiocyanate transport by human airway epithelia. <i>Journal of Physiology</i> , 2004, 561, 183-194.	2.9	98
14	Electronic Cigarette Vapor with Nicotine Causes Airway Mucociliary Dysfunction Preferentially via TRPA1 Receptors. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 200, 1134-1145.	5.6	91
15	Effects of $\beta_2$ -agonists on airway epithelial cells. <i>Journal of Allergy and Clinical Immunology</i> , 2002, 110, S275-S281.	2.9	89
16	Apical Oxidative Hyaluronan Degradation Stimulates Airway Ciliary Beating via RHAMM and RON. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2007, 37, 160-168.	2.9	84
17	Fibroblast growth factor 23 and Klotho contribute to airway inflammation. <i>European Respiratory Journal</i> , 2018, 52, 1800236.	6.7	78
18	Mode of Ca <sup>2+</sup> action on ciliary beat frequency in single ovine airway epithelial cells. <i>Journal of Physiology</i> , 1999, 520, 851-865.	2.9	77

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19	Prolonged increase in ciliary beat frequency after short-term purinergic stimulation in human airway epithelial cells. <i>Journal of Physiology</i> , 2002, 538, 633-646.	2.9	76
20	Oxidative epithelial host defense is regulated by infectious and inflammatory stimuli. <i>Free Radical Biology and Medicine</i> , 2009, 47, 1450-1458.	2.9	72
21	Regulator of G-Protein Signaling Protein 2 Modulates Purinergic Calcium and Ciliary Beat Frequency Responses in Airway Epithelia. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2002, 27, 436-445.	2.9	71
22	Functional Apical Large Conductance, Ca <sup>2+</sup> -activated, and Voltage-dependent K <sup>+</sup> Channels Are Required for Maintenance of Airway Surface Liquid Volume. <i>Journal of Biological Chemistry</i> , 2011, 286, 19830-19839.	3.4	71
23	Toxicity of aged gasoline exhaust particles to normal and diseased airway epithelia. <i>Scientific Reports</i> , 2015, 5, 11801.	3.3	71
24	Pulmonary Disease and Age at Immigration among Hispanics. Results from the Hispanic Community Health Study/Study of Latinos. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 193, 386-395.	5.6	70
25	Role of Hyaluronan and Reactive Oxygen Species in Tissue Kallikrein-mediated Epidermal Growth Factor Receptor Activation in Human Airways. <i>Journal of Biological Chemistry</i> , 2004, 279, 21606-21616.	3.4	69
26	Submersion and Hypoxia Inhibit Ciliated Cell Differentiation in a Notch-Dependent Manner. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 51, 516-525.	2.9	68
27	Regulation of human airway ciliary beat frequency by intracellular pH. <i>Journal of Physiology</i> , 2004, 560, 519-532.	2.9	65
28	The effect of corticosteroids on the disposal of long-acting $\beta_2$ -agonists by airway smooth muscle cells. <i>Journal of Allergy and Clinical Immunology</i> , 2007, 120, 1103-1109.	2.9	65
29	Real-time analysis of cAMP-mediated regulation of ciliary motility in single primary human airway epithelial cells. <i>Journal of Cell Science</i> , 2006, 119, 4176-4186.	2.0	63
30	Hydrogen Peroxide's Scavenging Properties of Normal Human Airway Secretions. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2003, 167, 425-430.	5.6	56
31	Norepinephrine transport by the extraneuronal monoamine transporter in human bronchial arterial smooth muscle cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2003, 285, L829-L837.	2.9	51
32	Effects of albuterol enantiomers on ciliary beat frequency in ovine tracheal epithelial cells. <i>Journal of Applied Physiology</i> , 2002, 92, 2396-2402.	2.5	50
33	Isolation and Characterization of a Peroxidase from the Airway. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1997, 17, 97-105.	2.9	48
34	Decreased Soluble Adenylyl Cyclase Activity in Cystic Fibrosis Is Related to Defective Apical Bicarbonate Exchange and Affects Ciliary Beat Frequency Regulation. <i>Journal of Biological Chemistry</i> , 2010, 285, 29998-30007.	3.4	48
35	Ciliary beat co-ordination by calcium. <i>Biology of the Cell</i> , 2011, 103, 159-169.	2.0	46
36	Steroid Sensitivity of Norepinephrine Uptake by Human Bronchial Arterial and Rabbit Aortic Smooth Muscle Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001, 25, 500-506.	2.9	45

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37	Cyclic AMP-dependent Phosphorylation of a 26 kD Axonemal Protein in Ovine Cilia Isolated from Small Tissue Pieces. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1993, 9, 306-314.	2.9	44
38	Mechanism of Hydrogen Peroxide-induced Inhibition of Sheep Airway Cilia. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1992, 6, 667-673.	2.9	41
39	Exacerbations in subjects with alpha-1 antitrypsin deficiency receiving augmentation therapy. <i>Respiratory Medicine</i> , 2009, 103, 1532-1539.	2.9	40
40	Responses of lung cells to realistic exposure of primary and aged carbonaceous aerosols. <i>Atmospheric Environment</i> , 2013, 68, 143-150.	4.1	40
41	IFN- $\gamma$ -mediated reduction of large-conductance, Ca <sup>2+</sup> -activated, voltage-dependent K <sup>+</sup> (BK) channel activity in airway epithelial cells leads to mucociliary dysfunction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 306, L453-L462.	2.9	39
42	Airway Surface Dehydration by Transforming Growth Factor $\beta$ 2 (TGF- $\beta$ 2) in Cystic Fibrosis Is Due to Decreased Function of a Voltage-dependent Potassium Channel and Can Be Rescued by the Drug Pirfenidone. <i>Journal of Biological Chemistry</i> , 2015, 290, 25710-25716.	3.4	39
43	Protein Phosphatase 2A Reduces Cigarette Smoke-induced Cathepsin S and Loss of Lung Function. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 200, 51-62.	5.6	39
44	Acute toxicity of silver and carbon nanoaerosols to normal and cystic fibrosis human bronchial epithelial cells. <i>Nanotoxicology</i> , 2016, 10, 279-291.	3.0	38
45	Treatment of Mucociliary Dysfunction. <i>Chest</i> , 1996, 110, 1048-1057.	0.8	36
46	Pharmacotherapy for Non-Cystic Fibrosis Bronchiectasis. <i>Chest</i> , 2017, 152, 1120-1127.	0.8	36
47	Klotho Inhibits Interleukin-8 Secretion from Cystic Fibrosis Airway Epithelia. <i>Scientific Reports</i> , 2017, 7, 14388.	3.3	36
48	The Prevalence and Significance of <i>Staphylococcus aureus</i> in Patients with Non-Cystic Fibrosis Bronchiectasis. <i>Annals of the American Thoracic Society</i> , 2018, 15, 365-370.	3.2	36
49	E-Cigarettes and Cardiopulmonary Health. <i>Function</i> , 2021, 2, zqab004.	2.3	36
50	Losartan Rescues Inflammation-related Mucociliary Dysfunction in Relevant Models of Cystic Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 201, 313-324.	5.6	34
51	Clinical Characteristics of Subjects With Symptoms of $\alpha$ 1-Antitrypsin Deficiency Older Than 60 Years. <i>Chest</i> , 2009, 135, 600-608.	0.8	32
52	Albuterol Modulates Its Own Transepithelial Flux via Changes in Paracellular Permeability. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012, 46, 551-558.	2.9	32
53	Soluble adenylyl cyclase in health and disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 2584-2592.	3.8	31
54	Modulation of Wnt signaling is essential for the differentiation of ciliated epithelial cells in human airways. <i>FEBS Letters</i> , 2017, 591, 3493-3506.	2.8	31

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55	Roflumilast partially reverses smoke-induced mucociliary dysfunction. <i>Respiratory Research</i> , 2015, 16, 135.	3.6	30
56	Hyaluronic Acid in Cultured Ovine Tracheal Cells and Its Effect on Ciliary Beat Frequency In Vitro. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2000, 13, 231-237.	1.2	29
57	A Soluble Adenylyl Cyclase Form Targets to Axonemes and Rescues Beat Regulation in Soluble Adenylyl Cyclase Knockout Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 51, 750-760.	2.9	28
58	Transforming Growth Factor- $\beta$ 1 and Cigarette Smoke Inhibit the Ability of $\beta$ -Agonists to Enhance Epithelial Permeability. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 52, 65-74.	2.9	27
59	H <sub>2</sub> O <sub>2</sub> Stimulates Cystic Fibrosis Transmembrane Conductance Regulator through an Autocrine Prostaglandin Pathway, Using Multidrug-Resistant Protein <sup>4</sup> . <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 49, 672-679.	2.9	26
60	A Patient-Based Analysis of the Geographic Distribution of Mycobacterium avium complex, Mycobacterium abscessus, and Mycobacterium kansasii Infections in the United States. <i>Chest</i> , 2017, 151, 947-950.	0.8	23
61	Endoplasmic Reticulum Stress Decreases Intracellular Thyroid Hormone Activation via an eIF2 $\alpha$ -Mediated Decrease in Type 2 Deiodinase Synthesis. <i>Molecular Endocrinology</i> , 2011, 25, 2065-2075.	3.7	22
62	Calcium-mediated, purinergic stimulation and polarized localization of calcium-sensitive adenylyl cyclase isoforms in human airway epithelia. <i>FEBS Letters</i> , 2007, 581, 3241-3246.	2.8	21
63	Dual Oxidase 2 (Duox2) Regulates Pannexin 1-mediated ATP Release in Primary Human Airway Epithelial Cells via Changes in Intracellular pH and Not H <sub>2</sub> O <sub>2</sub> Production. <i>Journal of Biological Chemistry</i> , 2016, 291, 6423-6432.	3.4	21
64	Role of Smad3 and p38 Signalling in Cigarette Smoke-induced CFTR and BK dysfunction in Primary Human Bronchial Airway Epithelial Cells. <i>Scientific Reports</i> , 2017, 7, 10506.	3.3	21
65	The SARS-CoV-2 Transcriptome and the Dynamics of the S Gene Furin Cleavage Site in Primary Human Airway Epithelia. <i>MBio</i> , 2021, 12, .	4.1	21
66	Oxidative stress-induced inflammation in susceptible airways by anthropogenic aerosol. <i>PLoS ONE</i> , 2020, 15, e0233425.	2.5	19
67	The Endoplasmic Reticulum Resident Protein AGR3. Required for Regulation of Ciliary Beat Frequency in the Airway. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 53, 536-543.	2.9	18
68	Rapid nongenomic actions of inhaled corticosteroids on long-acting $\beta$ 2-agonist transport in the airway. <i>Pulmonary Pharmacology and Therapeutics</i> , 2011, 24, 654-659.	2.6	17
69	A long noncoding RNA antisense to ICAM-1 is involved in allergic asthma associated hyperreactive response of airway epithelial cells. <i>Mucosal Immunology</i> , 2021, 14, 630-639.	6.0	16
70	An Open Label Trial to Assess Safety of Losartan for Treating Worsening Respiratory Illness in COVID-19. <i>Frontiers in Medicine</i> , 2021, 8, 630209.	2.6	16
71	Is Gastroparesis Found More Frequently in Patients with Cystic Fibrosis? A Systematic Review. <i>Scientifica</i> , 2016, 2016, 1-11.	1.7	15
72	Lack of Nitric Oxide Involvement in Cholinergic Modulation of Ovine Ciliary Beat Frequency. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2000, 13, 219-229.	1.2	14

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73	Wood combustion particles induce adverse effects to normal and diseased airway epithelia. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 538-548.	3.5	14
74	Differences in vaping topography in relation to adherence to exclusive electronic cigarette use in veterans. <i>PLoS ONE</i> , 2018, 13, e0195896.	2.5	14
75	Cigarette smoke exposure reduces leukemia inhibitory factor levels during respiratory syncytial viral infection. <i>International Journal of COPD</i> , 2019, Volume 14, 1305-1315.	2.3	14
76	Systemic Ovalbumin Sensitization Downregulates Norepinephrine Uptake by Rabbit Aortic Smooth Muscle Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2002, 27, 746-751.	2.9	13
77	Airway Hydration, Apical K(+) Secretion, and the Large-Conductance, Ca(2+)-activated and Voltage-dependent Potassium (BK) Channel. <i>Annals of the American Thoracic Society</i> , 2016, 13 Suppl 2, S163-8.	3.2	13
78	Optimal Lentivirus Production and Cell Culture Conditions Necessary to Successfully Transduce Primary Human Bronchial Epithelial Cells. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	10
79	Post-Secretory Fate of Host Defence Components in Mucus. <i>Novartis Foundation Symposium</i> , 2008, , 20-37.	1.1	9
80	Losartan reduces cigarette smoke-induced airway inflammation and mucus hypersecretion. <i>ERJ Open Research</i> , 2021, 7, 00394-2020.	2.6	9
81	Airway Resistance Caused by Sphingomyelin Synthase 2 Insufficiency in Response to Cigarette Smoke. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 62, 342-353.	2.9	8
82	Hyperglycaemia in CF adversely affects BK channel function critical for mucus clearance. <i>European Respiratory Journal</i> , 2020, 57, 2000509.	6.7	8
83	The Effects of the Anti-aging Protein Klotho on Mucociliary Clearance. <i>Frontiers in Medicine</i> , 2019, 6, 339.	2.6	8
84	Agonist-stimulated calcium decreases in ovine ciliated airway epithelial cells: role of mitochondria. <i>Journal of Physiology</i> , 2001, 531, 13-26.	2.9	7
85	Soluble adenylyl cyclase mediates hydrogen peroxide-induced changes in epithelial barrier function. <i>Respiratory Research</i> , 2016, 17, 15.	3.6	7
86	Losartan ameliorates TGF- $\beta$ 2-induced CFTR dysfunction and improves correction by cystic fibrosis modulator therapies. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	7
87	Effect of airway acidosis and alkalosis on airway vascular smooth muscle responsiveness to albuterol. <i>BMC Pharmacology &amp; Toxicology</i> , 2015, 16, 9.	2.4	5
88	Responses of reconstituted human bronchial epithelia from normal and health-compromised donors to non-volatile particulate matter emissions from an aircraft turbofan engine. <i>Environmental Pollution</i> , 2022, 307, 119521.	7.5	5
89	Persistence of airway inflammation in smokers who switch to electronic cigarettes. <i>ERJ Open Research</i> , 2022, 8, 00117-2022.	2.6	5
90	Cystic Fibrosis-related Diabetes Is Associated with Worse Lung Function Trajectory despite Ivacaftor Use. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 1343-1345.	5.6	3

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91	Post-secretory fate of host defence components in mucus. Novartis Foundation Symposium, 2002, 248, 20-6; discussion 27-37, 277-82.	1.1	3
92	LRP1 loss in airway epithelium exacerbates smoke-induced oxidative damage and airway remodeling. Journal of Lipid Research, 2022, 63, 100185.	4.2	3
93	Hyaluronan in the Airways. , 2004, , 323-337.		1
94	TMEM16A Potentiators: Is There a Need for New Modulators in Cystic Fibrosis?. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 888-889.	5.6	1
95	CrossTalk opposing view: E-cigarettes expose users to adverse effects of vapours and the potential for nicotine addiction. Journal of Physiology, 2020, 598, 3053-3056.	2.9	1
96	Catch the Wave: Quantitatively Assessing Airway Ciliary Function as a Diagnostic Tool. American Journal of Respiratory Cell and Molecular Biology, 2018, 59, 415-416.	2.9	0
97	Reply: Relevance of the PP2A Pathway in the Molecular Mechanisms of Chronic Obstructive Pulmonary Disease. American Journal of Respiratory Cell and Molecular Biology, 2019, 61, 659-660.	2.9	0
98	4079 Lessons learned from implementing Quality Improvement (QI) in academic clinical research setting. Journal of Clinical and Translational Science, 2020, 4, 74-74.	0.6	0
99	Rebuttal from Samuel Chung, Charles D. Bengtson, Michael D. Kim and Matthias Salathe. Journal of Physiology, 2020, 598, 3059-3060.	2.9	0