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	LRP1 loss in airway epithelium exacerbates smoke-induced oxidative damage and airway remodeling. Journal of Lipid Research, 2022, 63, 100185.	4.2	3
2	Losartan ameliorates TGF-Î²1â€“induced CFTR dysfunction and improves correction by cystic fibrosis modulator therapies. Journal of Clinical Investigation, 2022, 132, .	8.2	7
3	Responses of reconstituted human bronchial epithelia from normal and health-compromised donors to non-volatile particulate matter emissions from an aircraft turbofan engine. Environmental Pollution, 2022, 307, 119521.	7.5	5
4	Persistence of airway inflammation in smokers who switch to electronic cigarettes. ERJ Open Research, 2022, 8, 00117-2022.	2.6	5
5	A long noncoding RNA antisense to ICAM-1 is involved in allergic asthma associated hyperreactive response of airway epithelial cells. Mucosal Immunology, 2021, 14, 630-639.	6.0	16
6	An Open Label Trial to Assess Safety of Losartan for Treating Worsening Respiratory Illness in COVID-19. Frontiers in Medicine, 2021, 8, 630209.	2.6	16
7	E-Cigarettes and Cardiopulmonary Health. Function, 2021, 2, zqab004.	2.3	36
8	The SARS-CoV-2 Transcriptome and the Dynamics of the S Gene Furin Cleavage Site in Primary Human Airway Epithelia. MBio, 2021, 12, .	4.1	21
9	Cystic Fibrosisâ€“related Diabetes Is Associated with Worse Lung Function Trajectory despite Ivacaftor Use. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 1343-1345.	5.6	3
10	Losartan reduces cigarette smoke-induced airway inflammation and mucus hypersecretion. ERJ Open Research, 2021, 7, 00394-2020.	2.6	9
11	Airway Resistance Caused by Sphingomyelin Synthase 2 Insufficiency in Response to Cigarette Smoke. American Journal of Respiratory Cell and Molecular Biology, 2020, 62, 342-353.	2.9	8
12	Losartan Rescues Inflammation-related Mucociliary Dysfunction in Relevant Models of Cystic Fibrosis. American Journal of Respiratory and Critical Care Medicine, 2020, 201, 313-324.	5.6	34
13	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
14	Hyperglycaemia in CF adversely affects BK channel function critical for mucus clearance. European Respiratory Journal, 2020, 57, 2000509.	6.7	8
15	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
16	CrossTalk opposing view: Eâ€cigarettes expose users to adverse effects of vapours and the potential for nicotine addiction. Journal of Physiology, 2020, 598, 3053-3056.	2.9	1
17	Rebuttal from Samuel Chung, Charles D. Bengtson, Michael D. Kim and Matthias Salathe. Journal of Physiology, 2020, 598, 3059-3060.	2.9	0
18	Oxidative stress-induced inflammation in susceptible airways by anthropogenic aerosol. PLoS ONE, 2020, 15, e0233425.	2.5	19

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19	Cigarette smoke exposure reduces leukemia inhibitory factor levels during respiratory syncytial viral infection . International Journal of COPD, 2019, Volume 14, 1305-1315.	2.3	14
20	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
21	Electronic Cigarette Vapor with Nicotine Causes Airway Mucociliary Dysfunction Preferentially via TRPA1 Receptors. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 1134-1145.	5.6	91
22	Protein Phosphatase 2A Reduces Cigarette Smokeâ€“induced Cathepsin S and Loss of Lung Function. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 51-62.	5.6	39
23	The Effects of the Anti-aging Protein Klotho on Mucociliary Clearance. Frontiers in Medicine, 2019, 6, 339.	2.6	8
24	The Prevalence and Significance of Staphylococcus aureus in Patients with Nonâ€“Cystic Fibrosis Bronchiectasis. Annals of the American Thoracic Society, 2018, 15, 365-370.	3.2	36
25	Differences in vaping topography in relation to adherence to exclusive electronic cigarette use in veterans. PLoS ONE, 2018, 13, e0195896.	2.5	14
26	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
27	Fibroblast growth factor 23 and Klotho contribute to airway inflammation. European Respiratory Journal, 2018, 52, 1800236.	6.7	78
28	Wood combustion particles induce adverse effects to normal and diseased airway epithelia. Environmental Sciences: Processes and Impacts, 2017, 19, 538-548.	3.5	14
29	Pharmacotherapy for Non-Cystic Fibrosis Bronchiectasis. Chest, 2017, 152, 1120-1127.	0.8	36
30	A Patient-Based Analysis of the Geographic Distribution of Mycobacterium avium complex, Mycobacterium abscessus , and Mycobacterium kansasii Infections in the United States. Chest, 2017, 151, 947-950.	0.8	23
31	Klotho Inhibits Interleukin-8 Secretion from Cystic Fibrosis Airway Epithelia. Scientific Reports, 2017, 7, 14388.	3.3	36
32	Modulation of Wnt signaling is essential for the differentiation of ciliated epithelial cells in human airways. FEBS Letters, 2017, 591, 3493-3506.	2.8	31
33	Role of Smad3 and p38 Signalling in Cigarette Smoke-induced CFTR and BK dysfunction in Primary Human Bronchial Airway Epithelial Cells. Scientific Reports, 2017, 7, 10506.	3.3	21
34	Randomized Trial of Liposomal Amikacin for Inhalation in Nontuberculous Mycobacterial Lung Disease. American Journal of Respiratory and Critical Care Medicine, 2017, 195, 814-823.	5.6	212
35	Adult Patients With Bronchiectasis. Chest, 2017, 151, 982-992.	0.8	282
36	Is Gastroparesis Found More Frequently in Patients with Cystic Fibrosis? A Systematic Review. Scientifica, 2016, 2016, 1-11.	1.7	15

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37	Chronic electronic cigarette exposure in mice induces features of COPD in a nicotine-dependent manner. Thorax, 2016, 71, 1119-1129.	5.6	247
38	Optimal Lentivirus Production and Cell Culture Conditions Necessary to Successfully Transduce Primary Human Bronchial Epithelial Cells. Journal of Visualized Experiments, 2016, , .	0.3	10
39	Soluble adenylyl cyclase mediates hydrogen peroxide-induced changes in epithelial barrier function. Respiratory Research, 2016, 17, 15.	3.6	7
40	Acute toxicity of silver and carbon nanoaerosols to normal and cystic fibrosis human bronchial epithelial cells. Nanotoxicology, 2016, 10, 279-291.	3.0	38
41	Pulmonary Disease and Age at Immigration among Hispanics. Results from the Hispanic Community Health Study/Study of Latinos. American Journal of Respiratory and Critical Care Medicine, 2016, 193, 386-395.	5.6	70
42	Dual Oxidase 2 (Duox2) Regulates Pannexin 1-mediated ATP Release in Primary Human Airway Epithelial Cells via Changes in Intracellular pH and Not H2O2 Production. Journal of Biological Chemistry, 2016, 291, 6423-6432.	3.4	21
43	Airway Hydration, Apical K(+) Secretion, and the Large-Conductance, Ca(2+)-activated and Voltage-dependent Potassium (BK) Channel. Annals of the American Thoracic Society, 2016, 13 Suppl 2, S163-8.	3.2	13
44	Roflumilast partially reverses smoke-induced mucociliary dysfunction. Respiratory Research, 2015, 16, 135.	3.6	30
45	The Endoplasmic Reticulum Resident Protein AGR3. Required for Regulation of Ciliary Beat Frequency in the Airway. American Journal of Respiratory Cell and Molecular Biology, 2015, 53, 536-543.	2.9	18
46	Airway Surface Dehydration by Transforming Growth Factor Î² (TGF-Î²) in Cystic Fibrosis Is Due to Decreased Function of a Voltage-dependent Potassium Channel and Can Be Rescued by the Drug Pirfenidone. Journal of Biological Chemistry, 2015, 290, 25710-25716.	3.4	39
47	Transforming Growth Factor-Î²1 and Cigarette Smoke Inhibit the Ability of Î²₂-Agonists to Enhance Epithelial Permeability. American Journal of Respiratory Cell and Molecular Biology, 2015, 52, 65-74.	2.9	27
48	Toxicity of aged gasoline exhaust particles to normal and diseased airway epithelia. Scientific Reports, 2015, 5, 11801.	3.3	71
49	Effect of airway acidosis and alkalosis on airway vascular smooth muscle responsiveness to albuterol. BMC Pharmacology & Toxicology, 2015, 16, 9.	2.4	5
50	A Soluble Adenylyl Cyclase Form Targets to Axonemes and Rescues Beat Regulation in Soluble Adenylyl Cyclase Knockout Mice. American Journal of Respiratory Cell and Molecular Biology, 2014, 51, 750-760.	2.9	28
51	IFN-Î³-mediated reduction of large-conductance, Ca²⁺-activated, voltage-dependent K⁺ (BK) channel activity in airway epithelial cells leads to mucociliary dysfunction. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L453-L462.	2.9	39
52	Submersion and Hypoxia Inhibit Ciliated Cell Differentiation in a Notch-Dependent Manner. American Journal of Respiratory Cell and Molecular Biology, 2014, 51, 516-525.	2.9	68
53	Soluble adenylyl cyclase in health and disease. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2014, 1842, 2584-2592.	3.8	31
54	Responses of lung cells to realistic exposure of primary and aged carbonaceous aerosols. Atmospheric Environment, 2013, 68, 143-150.	4.1	40

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55	H₂O₂ Stimulates Cystic Fibrosis Transmembrane Conductance Regulator through an Autocrine Prostaglandin Pathway, Using Multidrug-Resistant Proteinâ€“4. American Journal of Respiratory Cell and Molecular Biology, 2013, 49, 672-679.	2.9	26
56	Albuterol Modulates Its Own Transepithelial Flux via Changes in Paracellular Permeability. American Journal of Respiratory Cell and Molecular Biology, 2012, 46, 551-558.	2.9	32
57	Ciliary beat co-ordination by calcium. Biology of the Cell, 2011, 103, 159-169.	2.0	46
58	Rapid nongenomic actions of inhaled corticosteroids on long-acting Î²2-agonist transport in the airway. Pulmonary Pharmacology and Therapeutics, 2011, 24, 654-659.	2.6	17
59	Endoplasmic Reticulum Stress Decreases Intracellular Thyroid Hormone Activation via an eIF2a-Mediated Decrease in Type 2 Deiodinase Synthesis. Molecular Endocrinology, 2011, 25, 2065-2075.	3.7	22
60	Functional Apical Large Conductance, Ca2+-activated, and Voltage-dependent K+ Channels Are Required for Maintenance of Airway Surface Liquid Volume. Journal of Biological Chemistry, 2011, 286, 19830-19839.	3.4	71
61	Decreased Soluble Adenylyl Cyclase Activity in Cystic Fibrosis Is Related to Defective Apical Bicarbonate Exchange and Affects Ciliary Beat Frequency Regulation. Journal of Biological Chemistry, 2010, 285, 29998-30007.	3.4	48
62	Pannexin 1 Contributes to ATP Release in Airway Epithelia. American Journal of Respiratory Cell and Molecular Biology, 2009, 41, 525-534.	2.9	188
63	Oxidative epithelial host defense is regulated by infectious and inflammatory stimuli. Free Radical Biology and Medicine, 2009, 47, 1450-1458.	2.9	72
64	Exacerbations in subjects with alpha-1 antitrypsin deficiency receiving augmentation therapy. Respiratory Medicine, 2009, 103, 1532-1539.	2.9	40
65	Clinical Characteristics of Subjects With Symptoms of Î± 1 -Antitrypsin Deficiency Older Than 60 Years. Chest, 2009, 135, 600-608.	0.8	32
66	Post-Secretory Fate of Host Defence Components in Mucus. Novartis Foundation Symposium, 2008, , 20-37.	1.1	9
67	Regulation of Mammalian Ciliary Beating. Annual Review of Physiology, 2007, 69, 401-422.	13.1	346
68	Epithelial Organic Cation Transporters Ensure pH-Dependent Drug Absorption in the Airway. American Journal of Respiratory Cell and Molecular Biology, 2007, 36, 53-60.	2.9	104
69	Apical Oxidative Hyaluronan Degradation Stimulates Airway Ciliary Beating via RHAMM and RON. American Journal of Respiratory Cell and Molecular Biology, 2007, 37, 160-168.	2.9	84
70	Soluble Adenylyl Cyclase Is Localized to Cilia and Contributes to Ciliary Beat Frequency Regulation via Production of cAMP. Journal of General Physiology, 2007, 130, 99-109.	1.9	99
71	The lactoperoxidase system links anion transport to host defense in cystic fibrosis. FEBS Letters, 2007, 581, 271-278.	2.8	107
72	Calcium-mediated, purinergic stimulation and polarized localization of calcium-sensitive adenylyl cyclase isoforms in human airway epithelia. FEBS Letters, 2007, 581, 3241-3246.	2.8	21

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73	The effect of corticosteroids on the disposal of long-acting Î²2-agonists by airway smooth muscle cells. Journal of Allergy and Clinical Immunology, 2007, 120, 1103-1109.	2.9	65
74	Real-time analysis of cAMP-mediated regulation of ciliary motility in single primary human airway epithelial cells. Journal of Cell Science, 2006, 119, 4176-4186.	2.0	63
75	Regulated Hydrogen Peroxide Production by Duox in Human Airway Epithelial Cells. American Journal of Respiratory Cell and Molecular Biology, 2005, 32, 462-469.	2.9	219
76	Hyaluronan in the Airways. , 2004, , 323-337.		1
77	Role of Hyaluronan and Reactive Oxygen Species in Tissue Kallikrein-mediated Epidermal Growth Factor Receptor Activation in Human Airways. Journal of Biological Chemistry, 2004, 279, 21606-21616.	3.4	69
78	Regulation of human airway ciliary beat frequency by intracellular pH. Journal of Physiology, 2004, 560, 519-532.	2.9	65
79	Transcellular thiocyanate transport by human airway epithelia. Journal of Physiology, 2004, 561, 183-194.	2.9	98
80	Lactoperoxidase and Human Airway Host Defense. American Journal of Respiratory Cell and Molecular Biology, 2003, 29, 206-212.	2.9	194
81	Hydrogen Peroxideâ€“Scavenging Properties of Normal Human Airway Secretions. American Journal of Respiratory and Critical Care Medicine, 2003, 167, 425-430.	5.6	56
82	Norepinephrine transport by the extraneuronal monoamine transporter in human bronchial arterial smooth muscle cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2003, 285, L829-L837.	2.9	51
83	Effects of albuterol enantiomers on ciliary beat frequency in ovine tracheal epithelial cells. Journal of Applied Physiology, 2002, 92, 2396-2402.	2.5	50
84	Systemic Ovalbumin Sensitization Downregulates Norepinephrine Uptake by Rabbit Aortic Smooth Muscle Cells. American Journal of Respiratory Cell and Molecular Biology, 2002, 27, 746-751.	2.9	13
85	Regulator of G-Protein Signaling Protein 2 Modulates Purinergic Calcium and Ciliary Beat Frequency Responses in Airway Epithelia. American Journal of Respiratory Cell and Molecular Biology, 2002, 27, 436-445.	2.9	71
86	Effects of Î²-agonists on airway epithelial cells. Journal of Allergy and Clinical Immunology, 2002, 110, S275-S281.	2.9	89
87	Prolonged increase in ciliary beat frequency after shortâ€term purinergic stimulation in human airway epithelial cells. Journal of Physiology, 2002, 538, 633-646.	2.9	76
88	Post-secretory fate of host defence components in mucus. Novartis Foundation Symposium, 2002, 248, 20-6; discussion 27-37, 277-82.	1.1	3
89	Steroid Sensitivity of Norepinephrine Uptake by Human Bronchial Arterial and Rabbit Aortic Smooth Muscle Cells. American Journal of Respiratory Cell and Molecular Biology, 2001, 25, 500-506.	2.9	45
90	Agonistâ€stimulated calcium decreases in ovine ciliated airway epithelial cells: role of mitochondria. Journal of Physiology, 2001, 531, 13-26.	2.9	7

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91	Hyaluronan serves a novel role in airway mucosal host defense. FASEB Journal, 2001, 15, 2179-2186.	0.5	108
92	Hyaluronic Acid in Cultured Ovine Tracheal Cells and Its Effect on Ciliary Beat Frequency In Vitro. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2000, 13, 231-237.	1.2	29
93	Lack of Nitric Oxide Involvement in Cholinergic Modulation of Ovine Ciliary Beat Frequency. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2000, 13, 219-229.	1.2	14
94	The Lactoperoxidase System Functions in Bacterial Clearance of Airways. American Journal of Respiratory Cell and Molecular Biology, 2000, 22, 665-671.	2.9	161
95	Mode of Ca2+action on ciliary beat frequency in single ovine airway epithelial cells. Journal of Physiology, 1999, 520, 851-865.	2.9	77
96	Isolation and Characterization of a Peroxidase from the Airway. American Journal of Respiratory Cell and Molecular Biology, 1997, 17, 97-105.	2.9	48
97	Treatment of Mucociliary Dysfunction. Chest, 1996, 110, 1048-1057.	0.8	36
98	Cyclic AMP-dependent Phosphorylation of a 26 kD Axonemal Protein in Ovine Cilia Isolated from Small Tissue Pieces. American Journal of Respiratory Cell and Molecular Biology, 1993, 9, 306-314.	2.9	44
99	Mechanism of Hydrogen Peroxide-induced Inhibition of Sheep Airway Cilia. American Journal of Respiratory Cell and Molecular Biology, 1992, 6, 667-673.	2.9	41