Joseph Zabner

List of Publications by Year
in descending order

202 papers	20,182 citations	10956 71 h-index	11288 136 g-index
208 all docs	208 docs citations	208 times ranked	16746 citing authors

#	Article	IF	Citations
1	TLR4 mutations are associated with endotoxin hyporesponsiveness in humans. Nature Genetics, 2000, 25, 187-191.	9.4	1,867
2	Cellular and Molecular Barriers to Gene Transfer by a Cationic Lipid. Journal of Biological Chemistry, 1995, 270, 18997-19007.	1.6	1,299
3	Adenovirus-mediated gene transfer transiently corrects the chloride transport defect in nasal epithelia of patients with cystic fibrosis. Cell, 1993, 75, 207-216.	13.5	754
4	Reduced airway surface pH impairs bacterial killing in the porcine cystic fibrosis lung. Nature, 2012, 487, 109-113.	13.7	691
5	Disruption of the CFTR Gene Produces a Model of Cystic Fibrosis in Newborn Pigs. Science, 2008, 321, 1837-1841.	6.0	686
6	Cystic Fibrosis Pigs Develop Lung Disease and Exhibit Defective Bacterial Eradication at Birth. Science Translational Medicine, 2010, 2, 29ra31.	5.8	416
7	Adeno-Associated Virus Serotype 4 (AAV4) and AAV5 Both Require Sialic Acid Binding for Hemagglutination and Efficient Transduction but Differ in Sialic Acid Linkage Specificity. Journal of Virology, 2001, 75, 6884-6893.	1.5	370
8	Segregation of receptor and ligand regulates activation of epithelial growth factor receptor. Nature, 2003, 422, 322-326.	13.7	348
9	Adenovirus Fiber Disrupts CAR-Mediated Intercellular Adhesion Allowing Virus Escape. Cell, 2002, 110, 789-799.	13.5	335
10	Impaired mucus detachment disrupts mucociliary transport in a piglet model of cystic fibrosis. Science, 2014, 345, 818-822.	6.0	332
11	Basolateral Localization of Fiber Receptors Limits Adenovirus Infection from the Apical Surface of Airway Epithelia. Journal of Biological Chemistry, 1999, 274, 10219-10226.	1.6	326
12	Binding of Adeno-associated Virus Type 5 to 2,3-Linked Sialic Acid Is Required for Gene Transfer. Journal of Biological Chemistry, 2001, 276, 20610-20616.	1.6	304
13	Practical reconstruction method for bioluminescence tomography. Optics Express, 2005, 13, 6756.	1.7	299
14	Adeno-Associated Virus Type 5 (AAV5) but Not AAV2 Binds to the Apical Surfaces of Airway Epithelia and Facilitates Gene Transfer. Journal of Virology, 2000, 74, 3852-3858.	1.5	297
15	The air-liquid interface and use of primary cell cultures are important to recapitulate the transcriptional profile of in vivo airway epithelia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 300, L25-L31.	1.3	297
16	An In Vitro Model of Differentiated Human Airway Epithelia: Methods for Establishing Primary Cultures. , 2002, 188, 115-137.		284
17	A mouse model for the delta F508 allele of cystic fibrosis.. Journal of Clinical Investigation, 1995, 96, 2051-2064.	3.9	270
18	From The Cover: Inactivation of a Pseudomonas aeruginosa quorum-sensing signal by human airway epithelia. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 3587-3590.	3.3	266

#	Article	IF	Citations
19	A Novel Host Defense System of Airways Is Defective in Cystic Fibrosis. American Journal of Respiratory and Critical Care Medicine, 2007, 175, 174-183.	2.5	260
20	Airway acidification initiates host defense abnormalities in cystic fibrosis mice. Science, 2016, 351, 503-507.	6.0	254
21	Complexes of Adenovirus with Polycationic Polymers and Cationic Lipids Increase the Efficiency of Gene Transfer in Vitro and in Vivo. Journal of Biological Chemistry, 1997, 272, 6479-6489.	1.6	249
22	Repeat administration of an adenovirus vector encoding cystic fibrosis transmembrane conductance regulator to the nasal epithelium of patients with cystic fibrosis.. Journal of Clinical Investigation, 1996, 97, 1504-1511.	3.9	246
23	Safety and efficacy of repetitive adenovirusâ€“mediated transfer of CFTR cDNA to airway epithelia of primates and cotton rats. Nature Genetics, 1994, 6, 75-83.	9.4	234
24	Loss of CFTR Chloride Channels Alters Salt Absorption by Cystic Fibrosis Airway Epithelia In Vitro. Molecular Cell, 1998, 2, 397-403.	4.5	227
25	Loss of Anion Transport without Increased Sodium Absorption Characterizes Newborn Porcine Cystic Fibrosis Airway Epithelia. Cell, 2010, 143, 911-923.	13.5	218
26	Activity of Abundant Antimicrobials of the Human Airway. American Journal of Respiratory Cell and Molecular Biology, 1999, 20, 872-879.	1.4	211
27	The porcine lung as a potential model for cystic fibrosis. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 295, L240-L263.	1.3	206
28	Lack of high affinity fiber receptor activity explains the resistance of ciliated airway epithelia to adenovirus infection.. Journal of Clinical Investigation, 1997, 100, 1144-1149.	3.9	206
29	Human and murine paraoxonase 1 are host modulators of Pseudomonas aeruginosa quorum-sensing. FEMS Microbiology Letters, 2005, 253, 29-37.	0.7	196
30	Expression of the Complement Anaphylatoxin C3a and C5a Receptors on Bronchial Epithelial and Smooth Muscle Cells in Models of Sepsis and Asthma. Journal of Immunology, 2001, 166, 2025-2032.	0.4	189
31	Role of f-box factor foxj1 in differentiation of ciliated airway epithelial cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2004, 286, L650-L657.	1.3	185
32	Loss of Cystic Fibrosis Transmembrane Conductance Regulator Function Produces Abnormalities in Tracheal Development in Neonatal Pigs and Young Children. American Journal of Respiratory and Critical Care Medicine, 2010, 182, 1251-1261.	2.5	185
33	The Î” F508 Mutation Causes CFTR Misprocessing and Cystic Fibrosisâ€“Like Disease in Pigs. Science Translational Medicine, 2011, 3, 74ra24.	5.8	178
34	pH modulates the activity and synergism of the airway surface liquid antimicrobials Î²-defensin-3 and LL-37. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18703-18708.	3.3	164
35	Comparison of DNA-lipid complexes and DNA alone for gene transfer to cystic fibrosis airway epithelia in vivo.. Journal of Clinical Investigation, 1997, 100, 1529-1537.	3.9	162
36	Development of cystic fibrosis and noncystic fibrosis airway cell lines. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2003, 284, L844-L854.	1.3	159

#	Article	IF	Citations
37	A low rate of cell proliferation and reduced DNA uptake limit cationic lipid-mediated gene transfer to primary cultures of ciliated human airway epithelia. Gene Therapy, 1997, 4, 1173-1180.	2.3	150
38	Feline immunodeficiency virus vectors persistently transduce nondividing airway epithelia and correct the cystic fibrosis defect. Journal of Clinical Investigation, 1999, 104, R55-R62.	3.9	150
39	Directed evolution of adeno-associated virus to an infectious respiratory virus. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3865-3870.	3.3	149
40	Increasing Epithelial Junction Permeability Enhances Gene Transfer to Airway Epithelia In Vivo. American Journal of Respiratory Cell and Molecular Biology, 2000, 22, 129-138.	1.4	138
41	Incorporation of adenovirus in calcium phosphate precipitates enhances gene transfer to airway epithelia in vitro and in vivo.. Journal of Clinical Investigation, 1998, 102, 184-193.	3.9	137
42	Paraoxonase-2 deficiency enhancesPseudomonas aeruginosaquorum sensing in murine tracheal epithelia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 292, L852-L860.	1.3	130
43	Transepithelial migration of neutrophils into the lung requires TREM-1. Journal of Clinical Investigation, 2013, 123, 138-149.	3.9	130
44	Cationic lipids used in gene transfer. Advanced Drug Delivery Reviews, 1997, 27, 17-28.	6.6	129
45	Modification of an Adenoviral Vector with Biologically Selected Peptides: A Novel Strategy for Gene Delivery to Cells of Choice. Human Gene Therapy, 1999, 10, 2615-2626.	1.4	128
46	MMP9 modulates tight junction integrity and cell viability in human airway epithelia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 296, L751-L762.	1.3	124
47	Augmentation of lung liquid clearance via adenovirus-mediated transfer of a Na,K-ATPase beta1 subunit gene.. Journal of Clinical Investigation, 1998, 102, 1421-1430.	3.9	122
48	Gene transfer of CFTR to airway epithelia: low levels of expression are sufficient to correct Clâ˜transport and overexpression can generate basolateral CFTR. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2005, 289, L1123-L1130.	1.3	116
49	Inflammatory Response in Airway Epithelial Cells Isolated from Patients with Cystic Fibrosis. American Journal of Respiratory and Critical Care Medicine, 2002, 166, 1248-1256.	2.5	115
50	The osmolyte xylitol reduces the salt concentration of airway surface liquid and may enhance bacterial killing. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 11614-11619.	3.3	111
51	Cystic fibrosis carriers are at increased risk for a wide range of cystic fibrosis-related conditions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1621-1627.	3.3	111
52	Human cystic fibrosis airway epithelia have reduced Cl- conductance but not increased Na+ conductance. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10260-10265.	3.3	110
53	Intestinal CFTR expression alleviates meconium ileus in cystic fibrosis pigs. Journal of Clinical Investigation, 2013, 123, 2685-2693.	3.9	109
54	Structure of Adeno-Associated Virus Serotype 5. Journal of Virology, 2004, 78, 3361-3371.	1.5	104

#	Article	IF	Citations
55	Characterization of fusion genes and the significantly expressed fusion isoforms in breast cancer by hybrid sequencing. Nucleic Acids Research, 2015, 43, e116-e116.	6.5	104
56	Pigs and humans with cystic fibrosis have reduced insulin-like growth factor 1 (IGF1) levels at birth. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20571-20575.	3.3	101
57	Lysozyme Secretion by Submucosal Glands Protects the Airway from Bacterial Infection. American Journal of Respiratory Cell and Molecular Biology, 2005, 32, 548-552.	1.4	100
58	Adenoviral-mediated gene transfer to fetal pulmonary epithelia in vitro and in vivo.. Journal of Clinical Investigation, 1995, 95, 2620-2632.	3.9	99
59	Glucose Depletion in the Airway Surface Liquid Is Essential for Sterility of the Airways. PLoS ONE, 2011, 6, e16166.	1.1	99
60	Correction of cAMP-Stimulated Fluid Secretion in Cystic Fibrosis Airway Epithelia: Efficiency of Adenovirus-Mediated Gene Transfer In Vitro. Human Gene Therapy, 1994, 5, 585-593.	1.4	97
61	Normal Sweat Chloride Values Do Not Exclude the Diagnosis of Cystic Fibrosis. American Journal of Respiratory and Critical Care Medicine, 1995, 151, 899-903.	2.5	97
62	Interleukin-9 Induces Goblet Cell Hyperplasia during Repair of Human Airway Epithelia. American Journal of Respiratory Cell and Molecular Biology, 2003, 28, 286-295.	1.4	97
63	Iron oxide nanoparticles induce Pseudomonas aeruginosa growth, induce biofilm formation, and inhibit antimicrobial peptide function. Environmental Science: Nano, 2014, 1, 123.	2.2	96
64	A role for the PDZ-binding domain of the coxsackie B virus and adenovirus receptor (CAR) in cell adhesion and growth. Journal of Cell Science, 2004, 117, 4401-4409.	1.2	93
65	Foxj1 is required for apical localization of ezrin in airway epithelial cells. Journal of Cell Science, 2003, 116, 4935-4945.	1.2	90
66	A shortened adeno-associated virus expression cassette for CFTR gene transfer to cystic fibrosis airway epithelia. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2952-2957.	3.3	86
67	Engineering Novel Cell Surface Receptors for Virus-mediated Gene Transfer. Journal of Biological Chemistry, 1999, 274, 21878-21884.	1.6	81
68	Adeno-Associated Virus Types 5 and 6 Use Distinct Receptors for Cell Entry. Human Gene Therapy, 2006, 17, 10-19.	1.4	81
69	Interdependency of Î²-Adrenergic Receptors and CFTR in Regulation of Alveolar Active Na + Transport. Circulation Research, 2005, 96, 999-1005.	2.0	77
70	Requirements for ion and solute transport, and pH regulation during enamel maturation. Journal of Cellular Physiology, 2012, 227, 1776-1785.	2.0	76
71	Mitochondrial-Targeted Antioxidant Therapy Decreases Transforming Growth Factor-Î²â€“Mediated Collagen Production in a Murine Asthma Model. American Journal of Respiratory Cell and Molecular Biology, 2015, 52, 106-115.	1.4	76
72	Group D Adenoviruses Infect Primary Central Nervous System Cells More Efficiently than Those from Group C. Journal of Virology, 1999, 73, 2537-2540.	1.5	75

#	Article	IF	Citations
73	Drosophila are protected from Pseudomonas aeruginosa lethality by transgenic expression of paraoxonase-1. Journal of Clinical Investigation, 2008, 118, 3123-3131.	3.9	74
74	CFTR gene transfer with AAV improves early cystic fibrosis pig phenotypes. JCI Insight, 2016, 1, e88728.	2.3	72
75	A Chimeric Type 2 Adenovirus Vector with a Type 17 Fiber Enhances Gene Transfer to Human Airway Epithelia. Journal of Virology, 1999, 73, 8689-8695.	1.5	71
76	Neonates with cystic fibrosis have a reduced nasal liquid pH; A small pilot study. Journal of Cystic Fibrosis, 2014, 13, 373-377.	0.3	70
77	Secreted and Transmembrane Mucins Inhibit Gene Transfer with AAV4 More Efficiently than AAV5. Journal of Biological Chemistry, 2002, 277, 23709-23713.	1.6	68
78	Concentration of the antibacterial precursor thiocyanate in cystic fibrosis airway secretions. Free Radical Biology and Medicine, 2011, 50, 1144-1150.	1.3	64
79	Sinus hypoplasia precedes sinus infection in a porcine model of cystic fibrosis. Laryngoscope, 2012, 122, 1898-1905.	1.1	61
80	Cystic Fibrosis Gene Therapy Using an Adenovirus Vector: In Vivo Safety and Efficacy in Nasal Epithelium. Howard Hughes Medical Institute, Iowa City, IA. Human Gene Therapy, 1994, 5, 209-219.	1.4	60
81	Targeting the urokinase plasminogen activator receptor enhances gene transfer to human airway epithelia. Journal of Clinical Investigation, 2000, 105, 589-596.	3.9	59
82	Isoform-Specific Regulation and Localization of the Coxsackie and Adenovirus Receptor in Human Airway Epithelia. PLoS ONE, 2010, 5, e9909.	1.1	59
83	Quantitative Chest CT Assessment of Small Airways Disease in Post-Acute SARS-CoV-2 Infection. Radiology, 2022, 304, 185-192.	3.6	57
84	Upregulation of pirin expression by chronic cigarette smoking is associated with bronchial epithelial cell apoptosis. Respiratory Research, 2007, 8, 10.	1.4	56
85	Reovirus Preferentially Infects the Basolateral Surface and Is Released from the Apical Surface of Polarized Human Respiratory Epithelial Cells. Journal of Infectious Diseases, 2008, 197, 1189-1197.	1.9	56
86	CaMKII Is Essential for the Proasthmatic Effects of Oxidation. Science Translational Medicine, 2013, 5, 195ra97.	5.8	54
87	The Coxsackie B Virus and Adenovirus Receptor Resides in a Distinct Membrane Microdomain. Journal of Virology, 2003, 77, 2559-2567.	1.5	52
88	CFTR with a partially deleted R domain corrects the cystic fibrosis chloride transport defect in human airway epithelia in vitro and in mouse nasal mucosa in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3093-3098.	3.3	51
89	A Common Mutation in Paraoxonase-2 Results in Impaired Lactonase Activity. Journal of Biological Chemistry, 2009, 284, 35564-35571.	1.6	51
90	Histamine alters E-cadherin cell adhesion to increase human airway epithelial permeability. Journal of Applied Physiology, 2003, 95, 394-401.	1.2	47

#	Article	IF	Citations
91	Apical Localization of the Coxsackie-Adenovirus Receptor by Glycosyl-Phosphatidylinositol Modification Is Sufficient for Adenovirus-Mediated Gene Transfer through the Apical Surface of Human Airway Epithelia. Journal of Virology, 2001, 75, 7703-7711.	1.5	46
92	Dual Therapeutic Utility of Proteasome Modulating Agents for Pharmaco-gene Therapy of the Cystic Fibrosis Airway. Molecular Therapy, 2004, 10, 990-1002.	3.7	46
93	Single-molecule long-read sequencing reveals the chromatin basis of gene expression. Genome Research, 2019, 29, 1329-1342.	2.4	46
94	Differentiation of human airway epithelia is dependent on erbB2. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 291, L175-L180.	1.3	45
95	Electrolyte transport properties in distal small airways from cystic fibrosis pigs with implications for host defense. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L670-L679.	1.3	44
96	Delivery of an Adenovirus Vector in a Calcium Phosphate Coprecipitate Enhances the Therapeutic Index of Gene Transfer to Airway Epithelia. Human Gene Therapy, 1999, 10, 603-613.	1.4	42
97	HSP90 inhibitor geldanamycin reverts IL-13â€“ and IL-17â€“induced airway goblet cell metaplasia. Journal of Clinical Investigation, 2019, 129, 744-758.	3.9	42
98	Effect of vitamin D _₃ on the antimicrobial activity of human airway surface liquid: preliminary results of a randomised placebo-controlled double-blind trial. BMJ Open Respiratory Research, 2017, 4, e000211.	1.2	40
99	Abundant DNase I-Sensitive Bacterial DNA in Healthy Porcine Lungs and Its Implications for the Lung Microbiome. Applied and Environmental Microbiology, 2013, 79, 5936-5941.	1.4	38
100	Medical reversal of chronic sinusitis in a cystic fibrosis patient with ivacaftor. International Forum of Allergy and Rhinology, 2015, 5, 178-181.	1.5	38
101	Adenovirus-Mediated Gene Transfer for Cystic Fibrosis: Part A. Safety of Dose and Repeat Administration in the Nasal Epithelium. Part B. Clinical Efficacy in the Maxillary Sinus. Howard Hughes Medical Institute, Iowa City, Iowa. Human Gene Therapy, 1995, 6, 205-218.	1.4	37
102	DNA transfection of macaque and murine respiratory tissue is greatly enhanced by use of a nuclease inhibitor. Journal of Gene Medicine, 2002, 4, 323-322.	1.4	37
103	CFTR Î”F508 mutation has minimal effect on the gene expression profile of differentiated human airway epithelia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2005, 289, L545-L553.	1.3	37
104	E4ORF3 Requirement for Achieving Long-Term Transgene Expression from the Cytomegalovirus Promoter in Adenovirus Vectors. Journal of Virology, 1999, 73, 7031-7034.	1.5	37
105	Alveolar Macrophages Inhibit Retrovirus-Mediated Gene Transfer to Airway Epithelia. Human Gene Therapy, 1997, 8, 1087-1093.	1.4	36
106	Calcium phosphate precipitates augment adenovirus-mediated gene transfer to blood vessels in vitro and in vivo. Gene Therapy, 2000, 7, 1284-1291.	2.3	35
107	Functional Effects of Coxsackievirus and Adenovirus Receptor Glycosylation on Homophilic Adhesion and Adenoviral Infection. Journal of Virology, 2007, 81, 5573-5578.	1.5	35
108	Patterns and density of early tracheal colonization in intensive care unit patients. Journal of Critical Care, 2009, 24, 114-121.	1.0	35

#	Article	IF	Citations
109	Efficient killing of inhaled bacteria in Î”F508 mice: role of airway surface liquid composition. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1999, 277, L183-L190.	1.3	34
110	Xylitol Enhances Bacterial Killing in the Rabbit Maxillary Sinus. Laryngoscope, 2004, 114, 2021-2024.	1.1	34
111	Canine Adenovirus Vectors for Lung-Directed Gene Transfer: Efficacy, Immune Response, and Duration of Transgene Expression Using Helper-Dependent Vectors. Journal of Virology, 2006, 80, 1487-1496.	1.5	34
112	Differential expression of sheep beta-defensin-1 and -2 and interleukin 8 during acute Mannheimia haemolytica pneumonia. Microbial Pathogenesis, 2004, 37, 21-27.	1.3	33
113	Protein composition of bronchoalveolar lavage fluid and airway surface liquid from newborn pigs. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 305, L256-L266.	1.3	33
114	Newborn Cystic Fibrosis Pigs Have a Blunted Early Response to an Inflammatory Stimulus. American Journal of Respiratory and Critical Care Medicine, 2016, 194, 845-854.	2.5	32
115	Loss of carbonic anhydrase XII function in individuals with elevated sweat chloride concentration and pulmonary airway disease. Human Molecular Genetics, 2016, 25, 1923-1933.	1.4	32
116	Lectin binding and endocytosis at the apical surface of human airway epithelia. Gene Therapy, 2001, 8, 1826-1832.	2.3	31
117	CFTR is required for maximal transepithelial liquid transport in pig alveolar epithelia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2012, 303, L152-L160.	1.3	31
118	A Novel AAV-mediated Gene Delivery System Corrects CFTR Function in Pigs. American Journal of Respiratory Cell and Molecular Biology, 2019, 61, 747-754.	1.4	31
119	Vaccinia Virus Entry, Exit, and Interaction with Differentiated Human Airway Epithelia. Journal of Virology, 2007, 81, 9891-9899.	1.5	30
120	Effects of Coal Fly Ash Particulate Matter on the Antimicrobial Activity of Airway Surface Liquid. Environmental Health Perspectives, 2017, 125, 077003.	2.8	30
121	Adenovirus-Mediated Gene Therapy for Head and Neck Squamous Cell Carcinomas. Annals of Otology, Rhinology and Laryngology, 1996, 105, 562-567.	0.6	29
122	Whole exome sequencing identifies novel candidate genes that modify chronic obstructive pulmonary disease susceptibility. Human Genomics, 2016, 10, 1.	1.4	29
123	The Coxsackievirus and Adenovirus Receptor: A new adhesion protein in cochlear development. Hearing Research, 2006, 215, 1-9.	0.9	28
124	The Role of the Extracellular Domain in the Biology of the Coxsackievirus and Adenovirus Receptor. American Journal of Respiratory Cell and Molecular Biology, 2005, 32, 498-503.	1.4	27
125	Coal Fly Ash Impairs Airway Antimicrobial Peptides and Increases Bacterial Growth. PLoS ONE, 2013, 8, e57673.	1.1	27
126	Histamine Decreases E-Cadherin-Based Adhesion To Increase Permeability of Human Airway Epithelium. Chest, 2003, 123, 385S.	0.4	26

#	Article	IF	Citations
127	Thixotropic Solutions Enhance Viral-Mediated Gene Transfer to Airway Epithelia. American Journal of Respiratory Cell and Molecular Biology, 2002, 27, 133-140.	1.4	25
128	Safety assessment of inhaled xylitol in mice and healthy volunteers. Respiratory Research, 2004, 5, 13.	1.4	24
129	Precision Genomic Medicine in Cystic Fibrosis. Clinical and Translational Science, 2015, 8, 606-610.	1.5	24
130	Airway surface liquid from smokers promotes bacterial growth and biofilm formation via iron-lactoferrin imbalance. Respiratory Research, 2018, 19, 42.	1.4	24
131	Large-scale gene discovery in human airway epithelia reveals novel transcripts. Physiological Genomics, 2004, 17, 69-77.	1.0	23
132	Enhanced Sialic Acid-Dependent Endocytosis Explains the Increased Efficiency of Infection of Airway Epithelia by a Novel Adeno-Associated Virus. Journal of Virology, 2011, 85, 9023-9030.	1.5	23
133	Adenoviral Gene Transfer Corrects the Ion Transport Defect in the Sinus Epithelia of a Porcine CF Model. Molecular Therapy, 2013, 21, 947-953.	3.7	23
134	Keratinocyte growth factor induced epithelial proliferation facilitates retroviralâ€“mediated gene transfer to distal lung epithelia in vivo. Journal of Gene Medicine, 1999, 1, 22-30.	1.4	23
135	Safety assessment of inhaled xylitol in subjects with cystic fibrosis. Journal of Cystic Fibrosis, 2007, 6, 31-34.	0.3	22
136	Repurposing tromethamine as inhaled therapy to treat CF airway disease. JCI Insight, 2016, 1, .	2.3	22
137	Integrin Î±6Î²4 Identifies Human Distal Lung Epithelial Progenitor Cells with Potential as a Cell-Based Therapy for Cystic Fibrosis Lung Disease. PLoS ONE, 2013, 8, e83624.	1.1	22
138	Absence of amiloride-sensitive sodium absorption in the airway of an infant with pseudohypoaldosteronism. Journal of Pediatrics, 1999, 135, 786-789.	0.9	21
139	Bronchoscopic imaging of pulmonary mucosal vasculature responses to inflammatory mediators. Journal of Biomedical Optics, 2005, 10, 034013.	1.4	21
140	Adenovirus 5â€“Fiber 35 Chimeric Vector Mediates Efficient Apical Correction of the Cystic Fibrosis Transmembrane Conductance Regulator Defect in Cystic Fibrosis Primary Airway Epithelia. Human Gene Therapy, 2010, 21, 251-269.	1.4	20
141	Ivacaftor-induced sweat chloride reductions correlate with increases in airway surface liquid pH in cystic fibrosis. JCI Insight, 2018, 3, .	2.3	20
142	Cellular Localization and Activity of Ad-Delivered GFP-CFTR in Airway Epithelial and Tracheal Cells. American Journal of Respiratory Cell and Molecular Biology, 2007, 37, 631-639.	1.4	19
143	Polarized AAVR expression determines infectivity by AAV gene therapy vectors. Gene Therapy, 2019, 26, 240-249.	2.3	19
144	Higher BMI is associated with higher expiratory airflow normalised for lung volume (FEF25â€“75/FVC) in COPD. BMJ Open Respiratory Research, 2017, 4, e000231.	1.2	18

#	Article	IF	Citations
145	Enamel Pathology Resulting from Loss of Function in the Cystic Fibrosis Transmembrane Conductance Regulator in a Porcine Animal Model. Cells Tissues Organs, 2011, 194, 249-254.	1.3	17
146	Sequential magnetic resonance imaging analysis of the maxillary sinuses: implications for a model of gene therapy in cystic fibrosis. Journal of Laryngology and Otology, 1999, 113, 329-335.	0.4	15
147	Effect of Topical Nasal Pharmaceuticals on Sodium and Chloride Transport by Human Airway Epithelia. American Journal of Rhinology & Allergy, 2000, 14, 405-410.	2.3	15
148	Starting a Lung Transplant Program. Chest, 2015, 147, 1435-1443.	0.4	15
149	CATIONIC LIPID-MEDIATED TRANSFER OF THE hIL-10 GENE PROLONGS SURVIVAL OF ALLOGENEIC HEPATOCYTES IN NAGASE ANALBUMINEMIC RATS1,2. Transplantation, 1996, 62, 1866-1871.	0.5	15
150	erbB1 Functions as a Sensor of Airway Epithelial Integrity by Regulation of Protein Phosphatase 2A Activity. Journal of Biological Chemistry, 2006, 281, 1725-1730.	1.6	14
151	Aggregates of mutant CFTR fragments in airway epithelial cells of CF lungs: New pathologic observations. Journal of Cystic Fibrosis, 2015, 14, 182-193.	0.3	14
152	Indoor Air Pollution and Susceptibility to Tuberculosis Infection in Urban Vietnamese Children. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 1211-1221.	2.5	14
153	Expression of Human Paraoxonase 1 Decreases Superoxide Levels and Alters Bacterial Colonization in the Gut of Drosophila melanogaster. PLoS ONE, 2012, 7, e43777.	1.1	12
154	The Effects of Timed Light Exposure in Critically Ill Patients: A Randomized Controlled Pilot Clinical Trial. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 275-278.	2.5	12
155	A Single-Cell Atlas of Large and Small Airways at Birth in a Porcine Model of Cystic Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2022, 66, 612-622.	1.4	11
156	Nominal carbonic anhydrase activity minimizes airway-surface liquid pH changes during breathing. Physiological Reports, 2018, 6, e13569.	0.7	10
157	Development of a polarized pancreatic ductular cell epithelium for physiological studies. Journal of Applied Physiology, 2018, 125, 97-106.	1.2	10
158	Randomized controlled study of aerosolized hypertonic xylitol versus hypertonic saline in hospitalized patients with pulmonary exacerbation of cystic fibrosis. Journal of Cystic Fibrosis, 2020, 19, 108-113.	0.3	10
159	V-Type ATPase Mediates Airway Surface Liquid Acidification in Pig Small Airway Epithelial Cells. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 146-156.	1.4	10
160	Evaluation of in vivo total and regional air content and distribution in primate lungs with high-resolution CT. Academic Radiology, 1997, 4, 674-679.	1.3	9
161	The indirect effect of Tityus discrepans on rabbit pulmonary vasculature. Respiratory Physiology and Neurobiology, 2003, 134, 33-41.	0.7	9
162	Adenovirus-Mediated Erythropoietin Production by Airway Epithelia Is Enhanced by Apical Localization of the Coxsackieâ€“Adenovirus Receptor in Vivo. Molecular Therapy, 2004, 10, 500-506.	3.7	9

#	Article	IF	Citations
163	Cystic Fibrosis Transmembrane Conductance Regulator Potentiation as a Therapeutic Strategy for Pulmonary Edema. Critical Care Medicine, 2017, 45, e1240-e1246.	0.4	9
164	Bronchoalveolar Fluid Is Not a Major Hindrance to Virus-Mediated Gene Therapy in Cystic Fibrosis. Journal of Virology, 2002, 76, 10437-10443.	1.5	8
165	The CCT Promoter Directs High-Level Transgene Expression in Distal Lung Epithelial Cell Lines. American Journal of Respiratory Cell and Molecular Biology, 2004, 30, 61-68.	1.4	8
166	Bronchoscopic assessment of airway retention time of aerosolized xylitol. Respiratory Research, 2006, 7, 27.	1.4	8
167	Residential urban tree canopy is associated with decreased mortality during tuberculosis treatment in California. Science of the Total Environment, 2020, 711, 134580.	3.9	8
168	Keratinocyte growth factor induced epithelial proliferation facilitates retroviralâ€“mediated gene transfer to distal lung epitheliain vivo. Journal of Gene Medicine, 1999, 1, 22-30.	1.4	7
169	Indoor Particulate Matter From Smoker Homes Induces Bacterial Growth, Biofilm Formation, and Impairs Airway Antimicrobial Activity. A Pilot Study. Frontiers in Public Health, 2019, 7, 418.	1.3	7
170	The Effects of Fluticasone Propionate on Nasal Epithelial Potential Difference. American Journal of Rhinology & Allergy, 2002, 16, 145-149.	2.3	6
171	Do Cell Junction Protein Mutations Cause an Airway Phenotype in Mice or Humans?. American Journal of Respiratory Cell and Molecular Biology, 2011, 45, 202-220.	1.4	6
172	Hoechst increases adenoâ€associated virusâ€mediated transgene expression in airway epithelia by inducing the cytomegalovirus promoter. Journal of Gene Medicine, 2012, 14, 366-373.	1.4	6
173	Postnatal airway growth in cystic fibrosis piglets. Journal of Applied Physiology, 2017, 123, 526-533.	1.2	6
174	Role of PON in Anoxia-Reoxygenation Injury: A Drosophila Melanogaster Transgenic Model. PLoS ONE, 2014, 9, e84434.	1.1	6
175	Laser fluorescence bronchoscopy for detection of fluorescent reporter genes in airway epithelia. Gene Therapy, 2002, 9, 1639-1644.	2.3	5
176	Safety assessment of nebulized xylitol in beagle dogs. Inhalation Toxicology, 2012, 24, 365-372.	0.8	5
177	Protein Kinase CÎ¶ Inhibitor Promotes Resolution of Bleomycin-Induced Acute Lung Injury. American Journal of Respiratory Cell and Molecular Biology, 2016, 55, 869-877.	1.4	5
178	Chest wall strapping increases expiratory airflow and detectable airway segments in computer tomographic scans of normal and obstructed lungs. Journal of Applied Physiology, 2018, 124, 1186-1193.	1.2	5
179	Seasonal Antimicrobial Activity of the Airway: Post-Hoc Analysis of a Randomized Placebo-Controlled Double-Blind Trial. Nutrients, 2020, 12, 2602.	1.7	5
180	Effect of hypercapnia on fluid filtration rate during forward and reverse perfusion of isolated rabbit lungs. Critical Care Medicine, 1986, 14, 285-287.	0.4	4

#	Article	IF	Citations
181	Transduction of Pig Small Airway Epithelial Cells and Distal Lung Progenitor Cells by AAV4. Cells, 2021, 10, 1014.	1.8	4
182	In Situ Quantification of Glucose Concentration in Airway Surface Liquid With Functionalized ZnO Nanorod-Coated Microelectrodes. Journal of Analytical & Bioanalytical Techniques, 2013, S7, .	0.6	4
183	Urban Particulate Matter Impairment of Airway Surface Liquidâ€“Mediated Coronavirus Inactivation. Journal of Infectious Diseases, 2022, 225, 214-218.	1.9	4
184	Vitamin D-mediated effects on airway innate immunity in vitro. PLoS ONE, 2022, 17, e0269647.	1.1	4
185	Cationic Lipid Mediated Gene Transfer of CFTR: Safety of a Single Administration to the Nasal Epithelia. Human Gene Therapy, 1999, 10, 1559-1572.	1.4	3
186	Adenovirus Calcium Phosphate Coprecipitates Enhance Squamous Cell Carcinoma Gene Transfer. Laryngoscope, 2001, 111, 1290-1296.	1.1	3
187	[28] Gene transfer to airway epithelia using feline immunodeficiency virus-based lentivirus vectors. Methods in Enzymology, 2002, 346, 500-514.	0.4	3
188	Tryptase Does Not Alter Transepithelial Conductance or Paracellular Permeability in Human Airway Epithelial Cells. American Journal of Rhinology and Allergy, 2010, 24, 126-128.	1.0	3
189	Fatal HBoV-1 infection in adult female cystic fibrosis patient. Human Pathology: Case Reports, 2017, 7, 51-52.	0.2	3
190	Continuous in-home PM2.5 concentrations of smokers with and without a history of respiratory exacerbations in Iowa, during and after an air purifier intervention. Journal of Exposure Science and Environmental Epidemiology, 2020, 30, 778-784.	1.8	2
191	Airway epithelia regulate airway surface liquid glucose concentration. FASEB Journal, 2009, 23, .	0.2	2
192	Effects of Tham Nasal Alkalinization on Airway Microbial Communities: A Pilot Study in Non-CF and CF Adults. Annals of Otology, Rhinology and Laryngology, 2022, 131, 1013-1020.	0.6	1
193	The effects of fluticasone propionate on nasal epithelial potential difference. American Journal of Rhinology & Allergy, 2002, 16, 145-9.	2.3	1
194	Effect of high frequency oscillatory ventilation on fluid filtration rate in isolated perfused rabbit lungs. Intensive Care Medicine, 1989, 15, 155-159.	3.9	0
195	Dosing Efficiency and Particle-Size Characteristics of Pressurized Metered-Dose Inhaler Aerosols in Narrow Catheters. Chest, 1994, 105, 1621.	0.4	0
196	Vaccinia Virus Entry, Exit, and Interaction with Differentiated Human Airway Epithelia. Journal of Virology, 2007, 81, 13278-13278.	1.5	0
197	Giants in Chest Medicine: Donald C. Zavala, MD, FCCP. Chest, 2019, 155, 659-661.	0.4	0
198	Color analysis of the human airway wall. , 2002, , .		0

#	Article	IF	Citations
199	Adeno-Associated Virus Types 5 and 6 Use Distinct Receptors for Cell Entry. Human Gene Therapy, 2005, .	1.4	0
200	Spliceform specific Coxsackieâ€adenovirus receptor interactions. FASEB Journal, 2008, 22, 320.1.	0.2	0
201	Human PON2 S311C polymorphism impairs airway epithelia 3OC12â€HSL inactivation and alters PON2 glycosylation. FASEB Journal, 2009, 23, LB271.	0.2	0
202	FXYD3 increases Na ⁺ transport across human airway epithelia. FASEB Journal, 2022, 36, .	0.2	0