Jeffrey A Whitsett

List of Publications by Year
in descending order

124 papers	11,874 citations	34016 52 h-index	30848 102 g-index
134 all docs	134 docs citations	134 times ranked	13562 citing authors

#	Article	IF	Citations
1	Repair and Regeneration of the Respiratory System: Complexity, Plasticity, and Mechanisms of Lung Stem Cell Function. Cell Stem Cell, 2014, 15, 123-138.	5.2	748
2	Respiratory epithelial cells orchestrate pulmonary innate immunity. Nature Immunology, 2015, 16, 27-35.	7.0	588
3	Bronchopulmonary dysplasia. Nature Reviews Disease Primers, 2019, 5, 78.	18.1	541
4	Early restriction of peripheral and proximal cell lineages during formation of the lung. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10482-10487.	3.3	471
5	Hydrophobic Surfactant Proteins in Lung Function and Disease. New England Journal of Medicine, 2002, 347, 2141-2148.	13.9	447
6	Single-cell RNA sequencing identifies diverse roles of epithelial cells in idiopathic pulmonary fibrosis. JCI Insight, 2016, 1, e90558.	2.3	442
7	Differentiation of Human Pluripotent Stem Cells into Functional Lung Alveolar Epithelial Cells. Cell Stem Cell, 2017, 21, 472-488.e10.	5.2	406
8	Alveolar Surfactant Homeostasis and the Pathogenesis of Pulmonary Disease. Annual Review of Medicine, 2010, 61, 105-119.	5.0	368
9	SPDEF is required for mouse pulmonary goblet cell differentiation and regulates a network of genes associated with mucus production. Journal of Clinical Investigation, 2009, 119, 2914-24.	3.9	329
10	SINCERA: A Pipeline for Single-Cell RNA-Seq Profiling Analysis. PLoS Computational Biology, 2015, 11, e1004575.	1.5	313
11	GM-CSF Regulates Pulmonary Surfactant Homeostasis and Alveolar Macrophage-Mediated Innate Host Defense. Annual Review of Physiology, 2002, 64, 775-802.	5.6	306
12	Wnt/Î²-catenin signaling acts upstream of N-myc, BMP4, and FGF signaling to regulate proximalâ€“distal patterning in the lung. Developmental Biology, 2005, 283, 226-239.	0.9	286
13	The Cellular and Physiological Basis for Lung Repair and Regeneration: Past, Present, and Future. Cell Stem Cell, 2020, 26, 482-502.	5.2	230
14	Diseases of Pulmonary Surfactant Homeostasis. Annual Review of Pathology: Mechanisms of Disease, 2015, 10, 371-393.	9.6	193
15	Surfactant Protein-A Binds Group B Streptococcus Enhancing Phagocytosis and Clearance from Lungs of Surfactant Protein-Aâ€“Deficient Mice. American Journal of Respiratory Cell and Molecular Biology, 1999, 20, 279-286.	1.4	184
16	VEGF enhances pulmonary vasculogenesis and disrupts lung morphogenesis in vivo. , 1998, 211, 215-227.		179
17	Airway Epithelial Differentiation and Mucociliary Clearance. Annals of the American Thoracic Society, 2018, 15, S143-S148.	1.5	173
18	Intestinal commensal bacteria mediate lung mucosal immunity and promote resistance of newborn mice to infection. Science Translational Medicine, 2017, 9, .	5.8	168

#	Article	IF	Citations
19	Single cell RNA analysis identifies cellular heterogeneity and adaptive responses of the lung at birth. Nature Communications, 2019, 10, 37.	5.8	165
20	LungMAP: The Molecular Atlas of Lung Development Program. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L733-L740.	1.3	162
21	Ectopic respiratory epithelial cell differentiation in bronchiolised distal airspaces in idiopathic pulmonary fibrosis. Thorax, 2011, 66, 651-657.	2.7	159
22	Building and Regenerating the Lung Cell by Cell. Physiological Reviews, 2019, 99, 513-554.	13.1	152
23	Ontogeny of Surfactant Proteins A and B in Human Amniotic Fluid as Indices of Fetal Lung Maturity. Pediatric Research, 1991, 30, 597-605.	1.1	144
24	SP-B deficiency causes respiratory failure in adult mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2003, 285, L543-L549.	1.3	142
25	FGF-10 disrupts lung morphogenesis and causes pulmonary adenomas in vivo. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 280, L705-L715.	1.3	138
26	Molecular mechanisms controlling lung morphogenesis. Clinical Genetics, 1999, 56, 14-27.	1.0	134
27	â€˜LungGENSâ€™: a web-based tool for mapping single-cell gene expression in the developing lung: FigureÂ1. Thorax, 2015, 70, 1092-1094.	2.7	133
28	Airway epithelial SPDEF integrates goblet cell differentiation and pulmonary Th2 inflammation. Journal of Clinical Investigation, 2015, 125, 2021-2031.	3.9	125
29	Foxa3 Induces Goblet Cell Metaplasia and Inhibits Innate Antiviral Immunity. American Journal of Respiratory and Critical Care Medicine, 2014, 189, 301-313.	2.5	122
30	Lung Gene Expression Analysis (LGEA): an integrative web portal for comprehensive gene expression data analysis in lung development. Thorax, 2017, 72, 481-484.	2.7	122
31	Genetic disorders influencing lung formation and function at birth. Human Molecular Genetics, 2004, 13, R207-R215.	1.4	121
32	GM-CSF regulates protein and lipid catabolism by alveolar macrophages. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 280, L379-L386.	1.3	119
33	Prolonged Survival in Hereditary Surfactant Protein B (SP-B) Deficiency Associated with a Novel Splicing Mutation. Pediatric Research, 2000, 48, 275-282.	1.1	108
34	Active epithelial Hippo signaling in idiopathic pulmonary fibrosis. JCI Insight, 2018, 3, .	2.3	106
35	SLICE: determining cell differentiation and lineage based on single cell entropy. Nucleic Acids Research, 2017, 45, gkw1278.	6.5	102
36	Surfactant metabolism in SP-D gene-targeted mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 279, L468-L476.	1.3	86

#	Article	IF	Citations
37	Alveolar Development and Disease. American Journal of Respiratory Cell and Molecular Biology, 2015, 53, 1-7.	1.4	84
38	Intraamniotic Administration of an Adenoviral Vector for Gene Transfer to Fetal Sheep and Mouse Tissues. Pediatric Research, 1995, 38, 844-850.	1.1	81
39	HNF-3/Forkhead Homologue-4 (HFH-4) Is Expressed in Ciliated Epithelial Cells in the Developing Mouse Lung. Journal of Histochemistry and Cytochemistry, 1999, 47, 823-831.	1.3	81
40	Immunologic Identification of a Pulmonary Surfactant-Associated Protein of Molecular Weight = 6000 Daltons. Pediatric Research, 1986, 20, 744-749.	1.1	79
41	SPDEF Inhibits Prostate Carcinogenesis by Disrupting a Positive Feedback Loop in Regulation of the Foxm1 Oncogene. PLoS Genetics, 2014, 10, e1004656.	1.5	75
42	Fibroblast Growth Factor 18 Influences Proximal Programming during Lung Morphogenesis. Journal of Biological Chemistry, 2002, 277, 22743-22749.	1.6	74
43	Differential roles of STAT3 in the initiation and growth of lung cancer. Oncogene, 2015, 34, 3804-3814.	2.6	73
44	Pulmonary-specific expression of SP-D corrects pulmonary lipid accumulation in<i>SP-D</i>gene-targeted mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 278, L365-L373.	1.3	69
45	Spatially-Resolved Proteomics: Rapid Quantitative Analysis of Laser Capture Microdissected Alveolar Tissue Samples. Scientific Reports, 2016, 6, 39223.	1.6	69
46	Hepatocyte nuclear factor-3Î² limits cellular diversity in the developing respiratory epithelium and alters lung morphogenesis in vivo. , 1997, 210, 305-314.		67
47	TGF-?1 perturbs vascular development and inhibits epithelial differentiation in fetal lung in vivo. Developmental Dynamics, 2001, 221, 289-301.	0.8	67
48	Transcriptional Programs Controlling Perinatal Lung Maturation. PLoS ONE, 2012, 7, e37046.	1.1	67
49	The FOXM1 inhibitor RCM-1 suppresses goblet cell metaplasia and prevents IL-13 and STAT6 signaling in allergen-exposed mice. Science Signaling, 2017, 10, .	1.6	66
50	MEG3 is increased in idiopathic pulmonary fibrosis and regulates epithelial cell differentiation. JCI Insight, 2018, 3, .	2.3	65
51	Regulation and function of CCSP during pulmonary<i>Pseudomonas aeruginosa</i>infection in vivo. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 279, L452-L459.	1.3	64
52	Immunolocalization of Sonic Hedgehog (Shh) in Developing Mouse Lung. Journal of Histochemistry and Cytochemistry, 2001, 49, 1593-1603.	1.3	64
53	Sox17 is required for normal pulmonary vascular morphogenesis. Developmental Biology, 2014, 387, 109-120.	0.9	61
54	IL-4 increases surfactant and regulates metabolism in vivo. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 278, L75-L80.	1.3	58

#	Article	IF	Citations
55	The Pediatric Cell Atlas: Defining the Growth Phase of Human Development at Single-Cell Resolution. Developmental Cell, 2019, 49, 10-29.	3.1	57
56	Surfactant Protein B (SP-B) âˆ’/âˆ’ Mice Are Rescued by Restoration of SP-B Expression in Alveolar Type II Cells but Not Clara Cells. Journal of Biological Chemistry, 1999, 274, 19168-19174.	1.6	55
57	Activation of Sterol-response Element-binding Proteins (SREBP) in Alveolar Type II Cells Enhances Lipogenesis Causing Pulmonary Lipotoxicity. Journal of Biological Chemistry, 2012, 287, 10099-10114.	1.6	55
58	Postnatal Alveologenesis Depends on FOXF1 Signaling in c-KIT⁺ Endothelial Progenitor Cells. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 1164-1176.	2.5	49
59	Distinct changes in pulmonary surfactant homeostasis in common Î²-chain- and GM-CSF-deficient mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 278, L1164-L1171.	1.3	48
60	EMC3 coordinates surfactant protein and lipid homeostasis required for respiration. Journal of Clinical Investigation, 2017, 127, 4314-4325.	3.9	48
61	FOXM1 activates AGR2 and causes progression of lung adenomas into invasive mucinous adenocarcinomas. PLoS Genetics, 2017, 13, e1007097.	1.5	48
62	Epithelial Gpr116 regulates pulmonary alveolar homeostasis via Gq/11 signaling. JCI Insight, 2017, 2, .	2.3	47
63	Immunolocalization of Transforming Growth Factor a and Epidermal Growth Factor Receptor in Lungs of Patients with Cystic Fibrosis. Pediatric and Developmental Pathology, 1999, 2, 415-423.	0.5	45
64	SAM-pointed domain ETS factor mediates epithelial cellâ€“intrinsic innate immune signaling during airway mucous metaplasia. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16630-16635.	3.3	45
65	â€œEndodermal Wnt signaling is required for tracheal cartilage formationâ€. Developmental Biology, 2015, 405, 56-70.	0.9	45
66	Surfactant Protein B Corrects Oxygen-Induced Pulmonary Dysfunction in Heterozygous Surfactant Protein Bâ€“Deficient Mice. Pediatric Research, 1999, 46, 708-708.	1.1	43
67	Genetic Disorders of Surfactant Homeostasis. Neonatology, 2005, 87, 283-287.	0.9	42
68	Developmental Aspects of Î²-Adrenergic Receptors and Catecholamine-Sensitive Adenylate Cyclase in Rat Myocardium. Pediatric Research, 1981, 15, 1363-1369.	1.1	41
69	Thyroid transcription factor-1, hepatocyte nuclear factor-3beta and surfactant protein A and B in the developing chick lung. Journal of Anatomy, 1998, 193, 399-408.	0.9	40
70	TGFÎ² signaling inhibits goblet cell differentiation via SPDEF in conjunctival epithelium. Development (Cambridge), 2014, 141, 4628-4639.	1.2	40
71	Î²-Adrenergic Receptors and Catecholamine Sensitive Adenylate Cyclase in Developing Rat Ventricular Myocardium: Effect of Thyroid Status. Pediatric Research, 1982, 16, 463-469.	1.1	39
72	Expression of Thyroid Transcription Factor-1 in Congenital Cystic Adenomatoid Malformation of the Lung. Pediatric and Developmental Pathology, 2000, 3, 455-461.	0.5	39

#	Article	IF	Citations
73	SP-D and GM-CSF regulate surfactant homeostasis via distinct mechanisms. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 281, L697-L703.	1.3	39
74	Reconstructing differentiation networks and their regulation from time series single-cell expression data. Genome Research, 2018, 28, 383-395.	2.4	39
75	TGFBI functions similar to periostin but is uniquely dispensable during cardiac injury. PLoS ONE, 2017, 12, e0181945.	1.1	38
76	Neonatal Lung Disease Associated with TBX4 Mutations. Journal of Pediatrics, 2019, 206, 286-292.e1.	0.9	37
77	A lung tropic AAV vector improves survival in a mouse model of surfactant B deficiency. Nature Communications, 2020, 11, 3929.	5.8	37
78	Alveolar injury and regeneration following deletion of ABCA3. JCI Insight, 2017, 2, .	2.3	37
79	Failure to Detect Surfactant Protein-Specific Antibodies in Sera of Premature Infants Treated With Survanta, A Modified Bovine Surfactant. Pediatrics, 1991, 87, 505-510.	1.0	37
80	Dissociation, cellular isolation, and initial molecular characterization of neonatal and pediatric human lung tissues. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 315, L576-L583.	1.3	36
81	The Molecular Era of Surfactant Biology. Neonatology, 2014, 105, 337-343.	0.9	35
82	Î²â€catenin and Kras/Foxm1 signaling pathway are critical to restrict Sox9 in basal cells during pulmonary branching morphogenesis. Developmental Dynamics, 2016, 245, 590-604.	0.8	34
83	Surfactant protein-D regulates the postnatal maturation of pulmonary surfactant lipid pool sizes. Journal of Applied Physiology, 2009, 106, 1545-1552.	1.2	33
84	Tolerance of SP-A-deficient mice to hyperoxia or exercise. Journal of Applied Physiology, 2000, 89, 644-648.	1.2	32
85	Cell type-resolved human lung lipidome reveals cellular cooperation in lung function. Scientific Reports, 2018, 8, 13455.	1.6	31
86	Dosing and formulation of antenatal corticosteroids for fetal lung maturation and gene expression in rhesus macaques. Scientific Reports, 2019, 9, 9039.	1.6	31
87	Soluble ADAM33 initiates airway remodeling to promote susceptibility for allergic asthma in early life. JCI Insight, 2016, 1, .	2.3	31
88	Series Introduction: Intrinsic and innate defenses in the lung: intersection of pathways regulating lung morphogenesis, host defense, and repair. Journal of Clinical Investigation, 2002, 109, 565-569.	3.9	31
89	Integration of transcriptomic and proteomic data identifies biological functions in cell populations from human infant lung. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L347-L360.	1.3	28
90	Transcription Factors Regulating Embryonic Development of Pulmonary Vasculature. Advances in Anatomy, Embryology and Cell Biology, 2018, 228, 1-20.	1.0	27

#	Article	IF	Citations
91	Adenoviral E3-14.7K protein in LPS-induced lung inflammation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 278, L631-L639.	1.3	26
92	Temporal/spatial expression of nuclear receptor coactivators in the mouse lung. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 279, L1066-L1074.	1.3	25
93	Systems biology evaluation of cell-free amniotic fluid transcriptome of term and preterm infants to detect fetal maturity. BMC Medical Genomics, 2015, 8, 67.	0.7	25
94	Mesenchymal Wnt signaling promotes formation of sternum and thoracic body wall. Developmental Biology, 2015, 401, 264-275.	0.9	25
95	Time-resolved proteome profiling of normal lung development. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2018, 315, L11-L24.	1.3	25
96	Review: The intersection of surfactant homeostasis and innate host defense of the lung: lessons from newborn infants. Innate Immunity, 2010, 16, 138-142.	1.1	24
97	YAP regulates alveolar epithelial cell differentiation and AGER via NFIB/KLF5/NKX2-1. IScience, 2021, 24, 102967.	1.9	24
98	Forkhead Transcription Factor HFH-4 and Respiratory Epithelial Cell Differentiation. American Journal of Respiratory Cell and Molecular Biology, 1999, 21, 153-154.	1.4	21
99	Ontogeny of Î²-Adrenergic Receptors in the Rat Lung: Effects of Hypothyroidism. Pediatric Research, 1982, 16, 381-387.	1.1	20
100	Surfactant protein-A in bronchoalveolar lavage fluid from neonates with RDS on conventional and high-frequency oscillatory ventilation. Pediatric Pulmonology, 1990, 9, 166-169.	1.0	19
101	Glucocorticoid regulates mesenchymal cell differentiation required for perinatal lung morphogenesis and function. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 319, L239-L255.	1.3	19
102	Heterogeneity in Human Induced Pluripotent Stem Cellâ€"derived Alveolar Epithelial Type II Cells Revealed with ABCA3/SFTPC Reporters. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 442-460.	1.4	19
103	Surfactant replacement therapy for adult respiratory distress syndrome in children. , 1996, 21, 328-336.		18
104	Epithelial SCAP/INSIG/SREBP Signaling Regulates Multiple Biological Processes during Perinatal Lung Maturation. PLoS ONE, 2014, 9, e91376.	1.1	18
105	Notch and Basal Cells Take Center Stage during Airway Epithelial Regeneration. Cell Stem Cell, 2011, 8, 597-598.	5.2	17
106	Therapeutic Potential of Endothelial Progenitor Cells in Pulmonary Diseases. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 473-488.	1.4	17
107	CCSP deficiency does not alter surfactant homeostasis during adenoviral infection. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1999, 277, L983-L987.	1.3	14
108	VEGF receptor 2 (KDR) protects airways from mucus metaplasia through a Sox9-dependent pathway. Developmental Cell, 2021, 56, 1646-1660.e5.	3.1	13

#	Article	IF	Citations
109	Airway Epithelial KIF3A Regulates Th2 Responses to Aeroallergens. Journal of Immunology, 2016, 197, 4228-4239.	0.4	12
110	A novel PI3K inhibitor iMDK suppresses non-small cell lung Cancer cooperatively with A MEK inhibitor. Experimental Cell Research, 2015, 335, 197-206.	1.2	10
111	Blastocyst complementation reveals that NKX2â€1 establishes the proximalâ€peripheral boundary of the airway epithelium. Developmental Dynamics, 2021, 250, 1001-1020.	0.8	10
112	Inflammatory blockade prevents injury to the developing pulmonary gas exchange surface in preterm primates. Science Translational Medicine, 2022, 14, eabl8574.	5.8	10
113	How Can the Pediatric Community Enhance Funding for Child Health Research?. JAMA Pediatrics, 2021, 175, 1212-1214.	3.3	9
114	Proteomic Analysis of Human Lung Development. American Journal of Respiratory and Critical Care Medicine, 2022, 205, 208-218.	2.5	9
115	KLF5 controls glutathione metabolism to suppress p190-BCR-ABL+ B-cell lymphoblastic leukemia. Oncotarget, 2018, 9, 29665-29679.	0.8	6
116	Efficient Transduction of Alveolar Type 2 Cells with Adeno-associated Virus for the Study of Lung Regeneration. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 118-121.	1.4	5
117	Genes and transcriptional programs regulating alveolar homeostasis. Respirology, 2006, 11, S11-S11.	1.3	2
118	Modulating pulmonary inflammation. Science, 2016, 351, 662-663.	6.0	2
119	Genetics of Quorum Sensing Circuitry in Pseudomonas aeruginosa. , 0, , 259-272.		1
120	Molecular mechanisms controlling lung morphogenesis. Clinical Genetics, 1999, 57, 14-27.	1.0	0
121	Cell- and tissue-based therapies for lung disease. , 2020, , 1253-1272.		0
122	Commentary on the Truncated Splice Variant of the GM-CSF Receptor Beta-Chain in Peripheral Blood Serves as Severity Biomarker of Respiratory Failure in Newborns. Neonatology, 2021, 118, 194-197.	0.9	0
123	Impact of the epithelial HIF 2 alpha system on lung development. FASEB Journal, 2008, 22, 930.2.	0.2	0
124	Kruppel-Like-Factor 5 (Klf-5) Controls Hematopoietic Stem Cell/Progenitor Bone Marrow Homing and Lodging Through Rab5-Mediated Expression of Active Î²1 Integrin. Blood, 2012, 120, 113-113.	0.6	0