Zea Borok

List of Publications by Citations

91 papers	4,533 citations	36 h-index	66 g-index
95 ext. papers	5,237 ext. citations	6 avg, IF	5.39 L-index

#	Paper	IF	Citations
91	Induction of epithelial-mesenchymal transition in alveolar epithelial cells by transforming growth factor-beta1: potential role in idiopathic pulmonary fibrosis. *American Journal of Pathology*, **2005**, 166, 1321-32	5.8	761
90	TGF-beta-induced EMT: mechanisms and implications for fibrotic lung disease. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2007**, 293, L525-34	5.8	742
89	Keratinocyte growth factor modulates alveolar epithelial cell phenotype in vitro: expression of aquaporin 5. *American Journal of Respiratory Cell and Molecular Biology*, **1998**, 18, 554-61	5.7	170
88	Epithelium-specific deletion of TGF-β receptor type II protects mice from bleomycin-induced pulmonary fibrosis. *Journal of Clinical Investigation*, **2011**, 121, 277-87	15.9	151
87	EMT and interstitial lung disease: a mysterious relationship. *Current Opinion in Pulmonary Medicine*, **2012**, 18, 517-23	3	129
86	Lung edema clearance: 20 years of progress: invited review: role of aquaporin water channels in fluid transport in lung and airways. *Journal of Applied Physiology*, **2002**, 93, 2199-206	3.7	120
85	Na transport proteins are expressed by rat alveolar epithelial type I cells. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2002**, 282, L599-608	5.8	115
84	Astrocytic tight junctions control inflammatory CNS lesion pathogenesis. *Journal of Clinical Investigation*, **2017**, 127, 3136-3151	15.9	111
83	Characterizing the genetic basis of methylome diversity in histologically normal human lung tissue. *Nature Communications*, **2014**, 5, 3365	17.4	103
82	Mechanisms of alveolar epithelial translocation of a defined population of nanoparticles. *American Journal of Respiratory Cell and Molecular Biology*, **2010**, 42, 604-14	5.7	87
81	Claudin-18-mediated YAP activity regulates lung stem and progenitor cell homeostasis and tumorigenesis. *Journal of Clinical Investigation*, **2018**, 128, 970-984	15.9	81
80	Polystyrene nanoparticle trafficking across alveolar epithelium. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2008**, 4, 139-45	6	74
79	Alveolar epithelial cell injury due to zinc oxide nanoparticle exposure. *American Journal of Respiratory and Critical Care Medicine*, **2010**, 182, 1398-409	10.2	73
78	Modulation of t1alpha expression with alveolar epithelial cell phenotype in vitro. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **1998**, 275, L155-64	5.8	68
77	Epigenome-wide analysis of DNA methylation in lung tissue shows concordance with blood studies and identifies tobacco smoke-inducible enhancers. *Human Molecular Genetics*, **2017**, 26, 3014-3027	5.6	64
76	Nanoparticle effects on rat alveolar epithelial cell monolayer barrier properties. *Toxicology in Vitro*, **2007**, 21, 1373-81	3.6	64
75	Circulating angiotensin peptides levels in Acute Respiratory Distress Syndrome correlate with clinical outcomes: A pilot study. *PLoS ONE*, **2019**, 14, e0213096	3.7	63

74	Epithelial Vegfa Specifies a Distinct Endothelial Population in the Mouse Lung. *Developmental Cell*, **2020**, 52, 617-630.e6	10.2	61
73	Characterization of mouse alveolar epithelial cell monolayers. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2009**, 296, L1051-8	5.8	60
72	Defined medium for primary culture de novo of adult rat alveolar epithelial cells. *In Vitro Cellular and Developmental Biology - Animal*, **1994**, 30A, 99-104	2.6	59
71	Knockout mice reveal key roles for claudin 18 in alveolar barrier properties and fluid homeostasis. *American Journal of Respiratory Cell and Molecular Biology*, **2014**, 51, 210-22	5.7	58
70	Is an Epigenetically Regulated Tumor Suppressor Essential for Activation of the DNA Damage Response. *Cancer Research*, **2019**, 79, 3050-3062	10.1	57
69	p300/□Catenin Interactions Regulate Adult Progenitor Cell Differentiation Downstream of WNT5a/Protein Kinase C (PKC). *Journal of Biological Chemistry*, **2016**, 291, 6569-82	5.4	55
68	A fluid secretion pathway unmasked by acinar-specific Tmem16A gene ablation in the adult mouse salivary gland. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 2263-8	11.5	55
67	Claudin 4 knockout mice: normal physiological phenotype with increased susceptibility to lung injury. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2014**, 307, L524-36	5.8	54
66	Physical and functional interactions between homeodomain NKX2.1 and winged helix/forkhead FOXA1 in lung epithelial cells. *Molecular and Cellular Biology*, **2007**, 27, 2155-65	4.8	54
65	Directed expression of Cre in alveolar epithelial type 1 cells. *American Journal of Respiratory Cell and Molecular Biology*, **2010**, 43, 173-8	5.7	51
64	Na(+)-K(+)-ATPase expression in alveolar epithelial cells: upregulation of active ion transport by KGF. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **1998**, 274, L149-58	5.8	47
63	Identification of three genes of known function expressed by alveolar epithelial type I cells. *American Journal of Respiratory Cell and Molecular Biology*, **2003**, 29, 98-105	5.7	45
62	Mechanisms of EGF-induced stimulation of sodium reabsorption by alveolar epithelial cells. *American Journal of Physiology - Cell Physiology*, **1998**, 275, C82-92	5.4	42
61	Integrated transcriptomic and epigenomic analysis of primary human lung epithelial cell differentiation. *PLoS Genetics*, **2013**, 9, e1003513	6	41
60	Ligand-independent transforming growth factor-□type I receptor signalling mediates type I collagen-induced epithelial-mesenchymal transition. *Journal of Pathology*, **2012**, 226, 633-44	9.4	39
59	Loss in Epithelial Progenitors Reveals an Age-linked Role for Endoplasmic Reticulum Stress in Pulmonary Fibrosis. *American Journal of Respiratory and Critical Care Medicine*, **2020**, 201, 198-211	10.2	39
58	Transcriptional control of lung alveolar type 1 cell development and maintenance by NK homeobox 2-1. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 20545-20553	11.5	38
57	Re-evaluating the Na(+) conductance of adult rat alveolar type II pneumocytes: evidence for the involvement of cGMP-activated cation channels. *Journal of Physiology*, **2001**, 536, 693-701	3.9	38

56	Differential regulation of rat aquaporin-5 promoter/enhancer activities in lung and salivary epithelial cells. *Journal of Biological Chemistry*, **2000**, 275, 26507-14	5.4	36
55	Foxp2 inhibits Nkx2.1-mediated transcription of SP-C via interactions with the Nkx2.1 homeodomain. *American Journal of Respiratory Cell and Molecular Biology*, **2008**, 38, 750-8	5.7	35
54	Platelet CLEC-2 protects against lung injury via effects of its ligand podoplanin on inflammatory alveolar macrophages in the mouse. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2017**, 313, L1016-L1029	5.8	33
53	Role for alpha3 integrin in EMT and pulmonary fibrosis. *Journal of Clinical Investigation*, **2009**, 119, 7-10	15.9	33
52	Effects of KGF on alveolar epithelial cell transdifferentiation are mediated by JNK signaling. *American Journal of Respiratory Cell and Molecular Biology*, **2008**, 38, 239-46	5.7	32
51	Vesicular stomatitis virus G-pseudotyped lentivirus vectors mediate efficient apical transduction of polarized quiescent primary alveolar epithelial cells. *Journal of Virology*, **2001**, 75, 11747-54	6.6	31
50	Expression and biological activity of ABCA1 in alveolar epithelial cells. *American Journal of Respiratory Cell and Molecular Biology*, **2008**, 38, 283-92	5.7	30
49	Timeless in lung morphogenesis. *Developmental Dynamics*, **2003**, 228, 82-94	2.9	26
48	Non-canonical WNT signalling in the lung. *Journal of Biochemistry*, **2015**, 158, 355-65	3.1	25
47	KGF prevents hyperoxia-induced reduction of active ion transport in alveolar epithelial cells. *American Journal of Physiology - Cell Physiology*, **1999**, 276, C1352-60	5.4	25
46	Mesodermal ALK5 controls lung myofibroblast versus lipofibroblast cell fate. *BMC Biology*, **2016**, 14, 19	7.3	24
45	Development of a lung slice preparation for recording ion channel activity in alveolar epithelial type I cells. *Respiratory Research*, **2005**, 6, 40	7.3	20
44	IL-1R1-MyD88 axis elicits papain-induced lung inflammation. *European Journal of Immunology*, **2016**, 46, 2531-2541	6.1	19
43	Developmental pathways and specification of intrapulmonary stem cells. *Pediatric Research*, **2006**, 59, 84R-93R	3.2	19
42	Cell-specific expression of aquaporin-5 (Aqp5) in alveolar epithelium is directed by GATA6/Sp1 via histone acetylation. *Scientific Reports*, **2017**, 7, 3473	4.9	18
41	Secondary crest myofibroblast PDGFR controls the elastogenesis pathway via a secondary tier of signaling networks during alveologenesis. *Development (Cambridge)*, **2019**, 146,	6.6	17
40	GATA-6 mediates transcriptional activation of aquaporin-5 through interactions with Sp1. *American Journal of Physiology - Cell Physiology*, **2008**, 295, C1141-50	5.4	16
39	Knockout Mice Reveal a Major Role for Alveolar Epithelial Type I Cells in Alveolar Fluid Clearance. *American Journal of Respiratory Cell and Molecular Biology*, **2016**, 55, 395-406	5.7	16

38	Nanomaterial interactions with and trafficking across the lung alveolar epithelial barrier: implications for health effects of air-pollution particles. *Air Quality, Atmosphere and Health*, **2011**, 4, 65-78	5.6	15
37	Cross-Species Transcriptome Profiling Identifies New Alveolar Epithelial Type I Cell-Specific Genes. *American Journal of Respiratory Cell and Molecular Biology*, **2017**, 56, 310-321	5.7	14
36	The importance of detailed epigenomic profiling of different cell types within organs. *Epigenomics*, **2016**, 8, 817-29	4.4	13
35	Efficient Generation and Transcriptomic Profiling of Human iPSC-Derived Pulmonary Neuroendocrine Cells. *IScience*, **2020**, 23, 101083	6.1	12
34	Alveolar epithelium: beyond the barrier. *American Journal of Respiratory Cell and Molecular Biology*, **2014**, 50, 853-6	5.7	12
33	WNT5a-ROR Signaling Is Essential for Alveologenesis. *Cells*, **2020**, 9,	7.9	11
32	Translocation of PEGylated quantum dots across rat alveolar epithelial cell monolayers. *International Journal of Nanomedicine*, **2011**, 6, 2849-57	7.3	11
31	Functional characterization and cloning of amino acid transporter B(0,+) (ATB(0,+)) in primary cultured rat pneumocytes. *Journal of Cellular Physiology*, **2008**, 214, 645-54	7	11
30	Positional integration of lung adenocarcinoma susceptibility loci with primary human alveolar epithelial cell epigenomes. *Epigenomics*, **2018**, 10, 1167-1187	4.4	10
29	CLDN18.1 attenuates malignancy and related signaling pathways of lung adenocarcinoma in vivo and in vitro. *International Journal of Cancer*, **2018**, 143, 3169-3180	7.5	10
28	Pleiotropic Analysis of Lung Cancer and Blood Triglycerides. *Journal of the National Cancer Institute*, **2016**, 108,	9.7	9
27	Alveolar epithelial cell processing of nanoparticles activates autophagy and lysosomal exocytosis. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2018**, 315, L286-L300	5.8	7
26	Vitamin C, Thiamine, and Hydrocortisone in the Treatment of Sepsis: A Meta-Analysis and Trial Sequential Analysis of Randomized Controlled Trials. *Journal of Intensive Care Medicine*, **2021**, 8850666209878[illegible]	3.3	7
25	Addressing Gender Inequality in Our Disciplines: Report from the Association of Pulmonary, Critical Care, and Sleep Division Chiefs. *Annals of the American Thoracic Society*, **2018**, 15, 1382-1390	4.7	7
24	Dichotomous roles of claudins as tumor promoters or suppressors: lessons from knockout mice. *Cellular and Molecular Life Sciences*, **2019**, 76, 4663-4672	10.3	6
23	Rat aquaporin-5 4.3-kb 5′-flanking region differentially regulates expression in salivary gland and lung in vivo. *American Journal of Physiology - Cell Physiology*, **2008**, 295, C111-20	5.4	6
22	TENET 2.0: Identification of key transcriptional regulators and enhancers in lung adenocarcinoma. *PLoS Genetics*, **2020**, 16, e1009023	6	6
21	Genome-wide integration of microRNA and transcriptomic profiles of differentiating human alveolar epithelial cells. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2020**, 319, L173-L184	5.8	5

20	Transcriptomic Profiling of Primary Alveolar Epithelial Cell Differentiation in Human and Rat. *Genomics Data*, **2014**, 2, 105-109		5
19	Integrated Single-Cell RNA-Sequencing Analysis of Aquaporin 5-Expressing Mouse Lung Epithelial Cells Identifies GPRC5A as a Novel Validated Type I Cell Surface Marker. *Cells*, **2020**, 9,	7.9	5
18	Categorization of lung mesenchymal cells in development and fibrosis. *IScience*, **2021**, 24, 102551	6.1	5
17	CISH is a negative regulator of IL-13-induced CCL26 production in lung fibroblasts. *Allergology International*, **2019**, 68, 101-109	4.4	5
16	Oligopeptide Transport in Rat Lung Alveolar Epithelial Cells is Mediated by Pept2. *Pharmaceutical Research*, **2017**, 34, 2488-2497	4.5	4
15	Region-specific role for Pten in maintenance of epithelial phenotype and integrity. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2017**, 312, L131-L142	5.8	3
14	Development of human alveolar epithelial cell models to study distal lung biology and disease.. *IScience*, **2022**, 25, 103780	6.1	2
13	Protocol for Differentiation of Human iPSCs into Pulmonary Neuroendocrine Cells. *STAR Protocols*, **2020**, 1, 100068	1.4	2
12	Vitamin D status in sarcoidosis: a cross-sectional study. *Sarcoidosis Vasculitis and Diffuse Lung Diseases*, **2018**, 35, 154-159	1.1	1
11	A wearable eddy current based pulmonary function sensor for continuous non-contact point-of-care monitoring during the COVID-19 pandemic. *Scientific Reports*, **2021**, 11, 20144	4.9	1
10	Development of novel in vitro human alveolar epithelial cell models to study distal lung biology and disease		1
9	Role of sodium pump subunit in adult mouse lung alveolar fluid homeostasis. *FASEB Journal*, **2012**, 26, 1069.6	0.9	1
8	Endoplasmic reticulum chaperone GRP78/BiP is critical for mutant Kras-driven lung tumorigenesis. *Oncogene*, **2021**, 40, 3624-3632	9.2	1
7	Hedgehog-responsive PDGFRa(+) fibroblasts maintain a unique pool of alveolar epithelial progenitor cells during alveologenesis.. *Cell Reports*, **2022**, 39, 110608	10.6	1
6	Interactions of Inhaled Nanoparticles with Rat Alveolar Epithelial Cell Monolayers. *FASEB Journal*, **2018**, 32, 745.3	0.9	
5	Effects of Endoplasmic Reticulum (ER) Stress on Epithelial Injury and Fibrosis in Alveolar Epithelial Type II Cell (AT2)-Specific Grp78 Knockout Mice. *FASEB Journal*, **2015**, 29, 1015.4	0.9	
4	Effect of surfactants on polystyrene nanoparticle (PNP) interactions with primary rat alveolar epithelial cell monolayers (RAECM). *FASEB Journal*, **2013**, 27, 722.5	0.9	
3	Nanodiamond (ND) interactions with primary rat alveolar epithelial cell monolayers (RAECM). *FASEB Journal*, **2013**, 27, 722.6	0.9	

2	Cytosolic calcium regulates nanoparticle egress from alveolar epithelial cells (780.11). *FASEB Journal*, **2014**, 28, 780.11	0.9
1	Type I Cells **2022**, 1-9	