Xingbin Ai

List of Publications by Year
in descending order

43 papers	3,008 citations	236925 25 h-index	265206 42 g-index
44 all docs	44 docs citations	44 times ranked	3501 citing authors

#	Article	IF	Citations
1	Single-cell immunophenotyping of the fetal immune response to maternal SARS-CoV-2 infection in late gestation. Pediatric Research, 2022, 91, 1090-1098.	2.3	14
2	CD38 plays an age-related role in cholinergic deregulation of airway smooth muscle contractility. Journal of Allergy and Clinical Immunology, 2022, 149, 1643-1654.e8.	2.9	1
3	Airway basal stem cells generate distinct subpopulations of PNECs. Cell Reports, 2021, 35, 109011.	6.4	22
4	Prematurity alters the progenitor cell program of the upper respiratory tract of neonates. Scientific Reports, 2021, 11, 10799.	3.3	7
5	VEGF receptor 2 (KDR) protects airways from mucus metaplasia through a Sox9-dependent pathway. Developmental Cell, 2021, 56, 1646-1660.e5.	7.0	13
6	Yap/Taz inhibit goblet cell fate to maintain lung epithelial homeostasis. Cell Reports, 2021, 36, 109347.	6.4	24
7	Primary culture of immature, naÃ¯ve mouse CD4+ TÂcells. STAR Protocols, 2021, 2, 100756.	1.2	4
8	Inhibiting Airway Smooth Muscle Contraction Using Pitavastatin: A Role for the Mevalonate Pathway in Regulating Cytoskeletal Proteins. Frontiers in Pharmacology, 2020, 11, 469.	3.5	2
9	Glycogen synthase kinase 3-Î² inhibition induces lymphangiogenesis through Î²-catenin-dependent and mTOR-independent pathways. PLoS ONE, 2019, 14, e0213831.	2.5	9
10	Age-Related Dopaminergic Innervation Augments T Helper 2-Type Allergic Inflammation in the Postnatal Lung. Immunity, 2019, 51, 1102-1118.e7.	14.3	53
11	Pulmonary Neuroendocrine Cells Secrete Î³-Aminobutyric Acid to Induce Goblet Cell Hyperplasia in Primate Models. American Journal of Respiratory Cell and Molecular Biology, 2019, 60, 687-694.	2.9	47
12	Neurotrophins in Asthma. Current Allergy and Asthma Reports, 2018, 18, 10.	5.3	18
13	A mutant-cell library for systematic analysis of heparan sulfate structureâ€“function relationships. Nature Methods, 2018, 15, 889-899.	19.0	71
14	Genetic Control of Fatty Acid Î²-Oxidation in Chronic Obstructive Pulmonary Disease. American Journal of Respiratory Cell and Molecular Biology, 2017, 56, 738-748.	2.9	55
15	Targeting acetylcholine receptor M3 prevents the progression of airway hyperreactivity in a mouse model of childhood asthma. FASEB Journal, 2017, 31, 4335-4346.	0.5	15
16	Pulmonary Vasculopathy Associated with FIGF Gene Mutation. American Journal of Pathology, 2017, 187, 25-32.	3.8	8
17	Early life allergenâ€induced mucus overproduction requires augmented neural stimulation of pulmonary neuroendocrine cell secretion. FASEB Journal, 2017, 31, 4117-4128.	0.5	42
18	Expression of Piwi protein MIWI2 defines a distinct population of multiciliated cells. Journal of Clinical Investigation, 2017, 127, 3866-3876.	8.2	14

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19	Cryopreserved Human Precision-Cut Lung Slices as a Bioassay for Live Tissue Banking. A Viability Study of Bronchodilation with Bitter-Taste Receptor Agonists. American Journal of Respiratory Cell and Molecular Biology, 2016, 54, 656-663.	2.9	46
20	miR-326 Is Downstream of Sonic Hedgehog Signaling and Regulates the Expression of Gli2 and Smoothened. American Journal of Respiratory Cell and Molecular Biology, 2014, 51, 273-283.	2.9	43
21	Airway Contractility in the Precision-Cut Lung Slice after Cryopreservation. American Journal of Respiratory Cell and Molecular Biology, 2014, 50, 876-881.	2.9	40
22	An NT4/TrkBâ€dependent increase in innervation links earlyâ€life allergen exposure to persistent airway hyperreactivity. FASEB Journal, 2014, 28, 897-907.	0.5	39
23	Derivation of lung mesenchymal lineages from the fetal mesothelium requires hedgehog signaling for mesothelial cell entry. Development (Cambridge), 2013, 140, 4398-4406.	2.5	85
24	Mechanisms of respiratory innervation during embryonic development. Organogenesis, 2013, 9, 194-198.	1.2	35
25	A New Approach for the Study of Lung Smooth Muscle Phenotypes and Its Application in a Murine Model of Allergic Airway Inflammation. PLoS ONE, 2013, 8, e74469.	2.5	23
26	Heparan Sulfate 6-O-endosulfatases (Sulfs) Coordinate the Wnt Signaling Pathways to Regulate Myoblast Fusion during Skeletal Muscle Regeneration. Journal of Biological Chemistry, 2012, 287, 32651-32664.	3.4	50
27	Trinucleotide Repeat Containing 6a (Tnrc6a)-mediated MicroRNA Function Is Required for Development of Yolk Sac Endoderm. Journal of Biological Chemistry, 2012, 287, 5979-5987.	3.4	10
28	Neural Crest Cell Origin and Signals for Intrinsic Neurogenesis in the Mammalian Respiratory Tract. American Journal of Respiratory Cell and Molecular Biology, 2011, 44, 293-301.	2.9	28
29	WT1-Dependent Sulfatase Expression Maintains the Normal Glomerular Filtration Barrier. Journal of the American Society of Nephrology: JASN, 2011, 22, 1286-1296.	6.1	58
30	A Shh/miR-206/BDNF Cascade Coordinates Innervation and Formation of Airway Smooth Muscle. Journal of Neuroscience, 2011, 31, 15407-15415.	3.6	76
31	Expression regulation and function of heparan sulfate 6-O-endosulfatases in the spermatogonial stem cell niche. Glycobiology, 2011, 21, 152-161.	2.5	34
32	Activation Dynamics and Signaling Properties of Notch3 Receptor in the Developing Pulmonary Artery. Journal of Biological Chemistry, 2011, 286, 22678-22687.	3.4	21
33	Quail Sulf1 Function Requires Asparagine-linked Glycosylation. Journal of Biological Chemistry, 2007, 282, 34492-34499.	3.4	27
34	SULF1 and SULF2 regulate heparan sulfate-mediated GDNF signaling for esophageal innervation. Development (Cambridge), 2007, 134, 3327-3338.	2.5	148
35	Sulfs are regulators of growth factor signaling for satellite cell differentiation and muscle regeneration. Developmental Biology, 2007, 311, 464-477.	2.0	63
36	Phosphoinositide 3-kinase and Akt are essential for Sonic Hedgehog signaling. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4505-4510.	7.1	418

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37	Substrate Specificity and Domain Functions of Extracellular Heparan Sulfate 6-O-Endosulfatases, QSulf1 and QSulf2. Journal of Biological Chemistry, 2006, 281, 4969-4976.	3.4	136
38	Ventral Neural Progenitors Switch toward an Oligodendroglial Fate in Response to Increased Sonic Hedgehog (Shh) Activity: Involvement of Sulfatase 1 in Modulating Shh Signaling in the Ventral Spinal Cord. Journal of Neuroscience, 2006, 26, 5037-5048.	3.6	108
39	Remodeling of Heparan Sulfate Sulfation by Extracellular Endosulfatases. , 2005, , 245-258.		9
40	QSulf1, a heparan sulfate 6-O-endosulfatase, inhibits fibroblast growth factor signaling in mesoderm induction and angiogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 4833-4838.	7.1	186
41	A subtractive approach to characterize genes with regionalized expression in the gliogenic ventral neuroepithelium: identification of chick Sulfatase 1 as a new oligodendrocyte lineage gene. Molecular and Cellular Neurosciences, 2004, 25, 612-628.	2.2	27
42	QSulf1 remodels the 6-O sulfation states of cell surface heparan sulfate proteoglycans to promote Wnt signaling. Journal of Cell Biology, 2003, 162, 341-351.	5.2	443
43	Regulation of Wnt Signaling and Embryo Patterning by an Extracellular Sulfatase. Science, 2001, 293, 1663-1666.	12.6	436