Amy L Ryan

List of Publications by Year
in descending order

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107 papers	3,502 citations	236925 25 h-index	155660 55 g-index
118 all docs	118 docs citations	118 times ranked	5557 citing authors

#	Article	IF	Citations
1	Induced pluripotent stem cells. , 2022, , 1-58.		0
2	Development of human alveolar epithelial cell models to study distal lung biology and disease. IScience, 2022, 25, 103780.	4.1	15
3	Emi2 enables centriole amplification during multiciliated cell differentiation. Science Advances, 2022, 8, eabm7538.	10.3	5
4	Engineering Tissue-Informed Biomaterials to Advance Pulmonary Regenerative Medicine. Frontiers in Medicine, 2021, 8, 647834.	2.6	5
5	Induced pluripotent stem cells for generating lung airway stem cells and modelling respiratory disease. , 2021, , 190-204.		3
6	Implications for Extracellular Matrix Interactions With Human Lung Basal Stem Cells in Lung Development, Disease, and Airway Modeling. Frontiers in Pharmacology, 2021, 12, 645858.	3.5	17
7	Transcriptional analysis of cystic fibrosis airways at single-cell resolution reveals altered epithelial cell states and composition. Nature Medicine, 2021, 27, 806-814.	30.7	101
8	Cellular Interactions between Human Airway Epithelial Cells and Cystic Fibrosis Macrophages result in Elevated Inflammation and Impaired Multiciliogenesis. FASEB Journal, 2021, 35, .	0.5	0
9	A Modular Human Airway Lungâ€Chip for Studying the Effect of Breathingâ€Mechanics on Airway Epithelial Cell Biology. FASEB Journal, 2021, 35, .	0.5	1
10	Targeted Protein Degradation through Fast Optogenetic Activation and Its Application to the Control of Cell Signaling. Journal of the American Chemical Society, 2021, 143, 9222-9229.	13.7	17
11	National Heart, Lung, and Blood Institute and Building Respiratory Epithelium and Tissue for Health (BREATH) Consortium Workshop Report: Moving Forward in Lung Regeneration. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 22-29.	2.9	2
12	The One-Stop Gyrification Station - Challenges and New Technologies. Progress in Neurobiology, 2021, 204, 102111.	5.7	4
13	Optical Control of Phosphoinositide Binding: Rapid Activation of Subcellular Protein Translocation and Cell Signaling. ACS Synthetic Biology, 2021, 10, 2886-2895.	3.8	2
14	Grp78 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.	5.6	89
15	Protocol for Differentiation of Human iPSCs into Pulmonary Neuroendocrine Cells. STAR Protocols, 2020, 1, 100068.	1.2	2
16	Stem cells and lung regeneration. American Journal of Physiology - Cell Physiology, 2020, 319, C675-C693.	4.6	50
17	Stem Cells, Cell Therapies, and Bioengineering in Lung Biology and Disease 2019. ERJ Open Research, 2020, 6, 00123-2020.	2.6	2
18	Claudin-18 Is a Novel Regulator of Airway Progenitor Cell Homeostasis and Differentiation. , 2020, , .		0

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19	Efficient Generation and Transcriptomic Profiling of Human iPSC-Derived Pulmonary Neuroendocrine Cells. IScience, 2020, 23, 101083.	4.1	20
20	Correcting CFTR: New Gene Editing Strategies for Rescuing CFTR Function ExÂVivo. Cell Stem Cell, 2020, 26, 476-478.	11.1	3
21	Derivation of induced pluripotent stem cells from ferret somatic cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L671-L683.	2.9	13
22	Multiscale mechanics of mucociliary clearance in the lung. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190160.	4.0	31
23	Abstract D133: Development of a racially/ethnically diverse collection of immortalized lung epithelial cell lines to model lung adenocarcinoma development and drug resistance across population groups. , 2020, , .		0
24	Regulation of Airway Progenitor Homeostasis and Cell Composition by Tight Junction Protein Claudinâ€18. FASEB Journal, 2020, 34, 1-1.	0.5	0
25	Technological advances in study of lung regenerative medicine:perspective from the 2019 Vermont lung stem cell conference. Cytotherapy, 2020, 22, 519-520.	0.7	6
26	Application of iPSC to Modelling of Respiratory Diseases. Advances in Experimental Medicine and Biology, 2019, 1237, 1-16.	1.6	14
27	More than a Tight Junction: Crucial Role of Claudin-18 in the Response to Airway Injury. , 2019, , .		0
28	CRISPR/Cas9 Editing in Induced Pluripotent Stem Cells: A Way Forward for Treating Cystic Fibrosis?. , 2019, , 153-178.		2
29	Induced Pluripotent Stem Cellâ€Derived Basal Cells Provide A Novel Source of Multilineage Airway Epithelial Cells. FASEB Journal, 2019, 33, .	0.5	0
30	The anti-diabetic drug dapagliflozin induces vasodilation via activation of PKG and Kv channels. Life Sciences, 2018, 197, 46-55.	4.3	65
31	Establishment of the early cilia preassembly protein complex during motile ciliogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1221-E1228.	7.1	60
32	Inhibitory effect of the tricyclic antidepressant amitriptyline on voltageâ€dependent K⁺ channels in rabbit coronary arterial smooth muscle cells. Clinical and Experimental Pharmacology and Physiology, 2018, 45, 205-212.	1.9	8
33	Inhibition of the Voltage-Dependent K+ Current by the Tricyclic Antidepressant Desipramine in Rabbit Coronary Arterial Smooth Muscle Cells. Cardiovascular Toxicology, 2018, 18, 252-260.	2.7	4
34	CLDN18.1 attenuates malignancy and related signaling pathways of lung adenocarcinoma in vivo and in vitro. International Journal of Cancer, 2018, 143, 3169-3180.	5.1	20
35	Blockade of voltage-dependent K+ current in rabbit coronary arterial smooth muscle cells by the tricyclic antidepressant clomipramine. Journal of Pharmacological Sciences, 2018, 137, 61-66.	2.5	3
36	Inhibition of the voltageâ€dependent K⁺ current by the class Ic antiarrhythmic drug flecainide in rabbit coronary arterial smooth muscle cells. Clinical and Experimental Pharmacology and Physiology, 2018, 45, 1286-1292.	1.9	3

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37	The selective serotonin reuptake inhibitor dapoxetine inhibits voltageâ€dependent K⁺ channels in rabbit coronary arterial smooth muscle cells. Clinical and Experimental Pharmacology and Physiology, 2017, 44, 480-487.	1.9	9
38	The vasorelaxant effect of mitiglinide via activation of voltage-dependent K+ channels and SERCA pump in aortic smooth muscle. Life Sciences, 2017, 188, 1-9.	4.3	5
39	The PPARÎ± activator fenofibrate inhibits voltage-dependent K + channels in rabbit coronary arterial smooth muscle cells. European Journal of Pharmacology, 2017, 812, 155-162.	3.5	5
40	Intermittent Reprogramming: A Breath of Fresh Air for Lung Regeneration. Cell Stem Cell, 2017, 21, 712-714.	11.1	0
41	Nortriptyline, a tricyclic antidepressant, inhibits voltage-dependent K⁺channels in coronary arterial smooth muscle cells. Korean Journal of Physiology and Pharmacology, 2017, 21, 225.	1.2	13
42	Alterations of voltageâ€dependent K⁺ channels in the mesenteric artery during the early and chronic phases of diabetes. Clinical and Experimental Pharmacology and Physiology, 2016, 43, 808-817.	1.9	8
43	Selective serotonin reuptake inhibitor sertraline inhibits voltage-dependent K+ channels in rabbit coronary arterial smooth muscle cells. Journal of Biosciences, 2016, 41, 659-666.	1.1	12
44	Y-27632, a Rho-Associated Protein Kinase Inhibitor, Inhibits Voltage-Dependent K+ Channels in Rabbit Coronary Arterial Smooth Muscle Cells. Pharmacology, 2016, 98, 220-227.	2.2	8
45	The anti-diabetic drug repaglinide induces vasorelaxation via activation of PKA and PKG in aortic smooth muscle. Vascular Pharmacology, 2016, 84, 38-46.	2.1	10
46	The class III anti-arrhythmic agent, amiodarone, inhibits voltage-dependent K+ channels in rabbit coronary arterial smooth muscle cells. Naunyn-Schmiedeberg's Archives of Pharmacology, 2016, 389, 713-721.	3.0	11
47	The Effects of the Selective Serotonin Reuptake Inhibitor Fluvoxamine on Voltage-Dependent K⁺ Channels in Rabbit Coronary Arterial Smooth Muscle Cells. Biological and Pharmaceutical Bulletin, 2015, 38, 1208-1213.	1.4	10
48	W-7 inhibits voltage-dependent K+ channels independent of calmodulin activity in rabbit coronary arterial smooth muscle cells. European Journal of Pharmacology, 2015, 750, 14-19.	3.5	9
49	Lymphoid Regeneration from Gene-Corrected SCID-X1 Subject-Derived iPSCs. Cell Stem Cell, 2015, 16, 367-372.	11.1	68
50	The Hope for iPSC in Lung Stem Cell Therapy and Disease Modeling. Pancreatic Islet Biology, 2015, , 113-143.	0.3	1
51	Functional Gene Correction for Cystic Fibrosis in Lung Epithelial Cells Generated from Patient iPSCs. Cell Reports, 2015, 12, 1385-1390.	6.4	272
52	The Role of Stem Cells in Vascular Remodeling in CTEPH. Pancreatic Islet Biology, 2015, , 277-287.	0.3	0
53	Genomic Editing of Stem Cells for Modeling and Therapy of Genetic Diseases. FASEB Journal, 2015, 29, LB78.	0.5	0
54	Generation of multiciliated cells in functional airway epithelia from human induced pluripotent stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1723-30.	7.1	218

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55	Adult Lung Stem Cells. Pancreatic Islet Biology, 2014, , 287-318.	0.3	0
56	Generation of multiciliated cells in functional airway epithelium from human iPSC (1094.5). FASEB Journal, 2014, 28, 1094.5.	0.5	0
57	Side-effects of protein kinase inhibitors on ion channels. Journal of Biosciences, 2013, 38, 937-949.	1.1	7
58	Regulation of Ca²⁺Signaling in Pulmonary Hypertension. Korean Journal of Physiology and Pharmacology, 2013, 17, 1.	1.2	20
59	Thrombin-mediated activation of Akt signaling contributes to pulmonary vascular remodeling in pulmonary hypertension. Physiological Reports, 2013, 1, e00190.	1.7	24
60	Human models for smooth muscle cell differentiation. Focus on â€œA novel in vitro model system for smooth muscle differentiation from human embryonic stem cell-derived mesenchymal cellsâ€• American Journal of Physiology - Cell Physiology, 2013, 304, C287-C288.	4.6	5
61	Identification of Functional Progenitor Cells in the Pulmonary Vasculature. Pulmonary Circulation, 2012, 2, 84-100.	1.7	9
62	â€œEther-Ã-go-goâ€•proliferation of iPSC-derived mesenchymal stem cells. Focus on â€œRegulation of cell proliferation of human induced pluripotent stem cell-derived mesenchymal stem cells via ether-Ã-go-go 1 (hEAG1) potassium channelâ€• American Journal of Physiology - Cell Physiology, 2012, 303, C113-C114.	4.6	8
63	PDGF enhances store-operated Ca²⁺entry by upregulating STIM1/Orai1 via activation of Akt/mTOR in human pulmonary arterial smooth muscle cells. American Journal of Physiology - Cell Physiology, 2012, 302, C405-C411.	4.6	90
64	Animal models of pulmonary hypertension: Rho kinase inhibition. Progress in Biophysics and Molecular Biology, 2012, 109, 67-75.	2.9	18
65	Embryonic stem cell potency fluctuates with endogenous retrovirus activity. Nature, 2012, 487, 57-63.	27.8	925
66	Adenylyl Cyclase 6 Improves Calcium Uptake and Left Ventricular Function in Aged Hearts. Journal of the American College of Cardiology, 2011, 57, 1846-1855.	2.8	29
67	Activated expression of cardiac adenylyl cyclase 6 reduces dilation and dysfunction of the pressure-overloaded heart. Biochemical and Biophysical Research Communications, 2011, 405, 349-355.	2.1	13
68	Human Pulmonary Artery Endothelial Cell Exposure To Fibrin(ogen) Augments Intracellular Calcium Responses To Thrombin. , 2011, , .		0
69	Brief Report: Efficient Generation of Hematopoietic Precursors and Progenitors from Human Pluripotent Stem Cell Lines. Stem Cells, 2011, 29, 1158-1164.	3.2	69
70	Beneficial Effects of Adenylyl Cyclase Type 6 (AC6) Expression Persist Using a Catalytically Inactive AC6 Mutant. Molecular Pharmacology, 2011, 79, 381-388.	2.3	19
71	Endothelial and Smooth Muscle Cell Ion Channels in Pulmonary Vasoconstriction and Vascular Remodeling. , 2011, 1, 1555-1602.		38
72	Functional Ion Channels in Human Pulmonary Artery Smooth Muscle Cells: Voltageâ€Dependent Cation Channels. Pulmonary Circulation, 2011, 1, 48-71.	1.7	64

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73	Ion Channels and Transporters in the Pulmonary Vasculature: A Focus on Smooth Muscle. , 2011, , 223-244.		3
74	Identification of Adult Stem and Progenitor Cells in the Pulmonary Vasculature. , 2011, , 621-636.		1
75	Direct effect of protein kinase C inhibitors on cardiovascular ion channels. BMB Reports, 2011, 44, 559-565.	2.4	11
76	Pathophysiology of voltage-gated K+ channels in vascular smooth muscle cells: Modulation by protein kinases. Progress in Biophysics and Molecular Biology, 2010, 103, 95-101.	2.9	82
77	Increased sensitivity of serotonin on the voltage-dependent K+ channels in mesenteric arterial smooth muscle cells of OLETF rats. Progress in Biophysics and Molecular Biology, 2010, 103, 88-94.	2.9	10
78	Patho-, physiological roles of voltage-dependent K+ channels in pulmonary arterial smooth muscle cells. Journal of Smooth Muscle Research, 2010, 46, 89-105.	1.2	34
79	Idiopathic pulmonary arterial hypertension. DMM Disease Models and Mechanisms, 2010, 3, 268-273.	2.4	57
80	Multipotent mesenchymal progenitor cells are present in endarterectomized tissues from patients with chronic thromboembolic pulmonary hypertension. American Journal of Physiology - Cell Physiology, 2010, 298, C1217-C1225.	4.6	63
81	Upregulation of Oct-4 isoforms in pulmonary artery smooth muscle cells from patients with pulmonary arterial hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2010, 298, L548-L557.	2.9	31
82	Animal models of pulmonary vascular disease. Drug Discovery Today: Disease Models, 2010, 7, 57-59.	1.2	0
83	Characterization of Ion Channels in Progenitor Cells Isolated From CTEPH Patients. FASEB Journal, 2010, 24, 1023.25.	0.5	0
84	Inhibition of mTOR attenuates store-operated Ca²⁺ entry in cells from endarterectomized tissues of patients with chronic thromboembolic pulmonary hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 297, L666-L676.	2.9	58
85	Chronic exposure to fibrin and fibrinogen differentially regulates intracellular Ca²⁺ in human pulmonary arterial smooth muscle and endothelial cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 296, L979-L986.	2.9	19
86	Cellular localization of mitochondria contributes to K_v channel-mediated regulation of cellular excitability in pulmonary but not mesenteric circulation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 296, L347-L360.	2.9	32
87	Identification of putative endothelial progenitor cells (CD34⁺CD133⁺Flk-1⁺) in endarterectomized tissue of patients with chronic thromboembolic pulmonary hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 296, L870-L878.	2.9	77
88	Fine tuning I_{CRAC}: the interactions of STIMâ€1 and Orai. Journal of Physiology, 2009, 587, 15-16.	2.9	2
89	Hypoxia Selectively Inhibits KCNA5 Channels in Pulmonary Artery Smooth Muscle Cells. Annals of the New York Academy of Sciences, 2009, 1177, 101-111.	3.8	14
90	Structural and functional association between mitochondria and voltageâ€gated K + currents in the rat pulmonary (PAMs), but not mesenteric (MAMs) arterial myocytes. FASEB Journal, 2009, 23, 999.7.	0.5	0

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91	Functional Characterization of Ca 2+ and K + Channels in Human Embryonic Stem Cells. FASEB Journal, 2009, 23, 998.28.	0.5	0
92	Adenylyl Cyclase Type 6 Deletion Decreases Left Ventricular Function via Impaired Calcium Handling. Circulation, 2008, 117, 61-69.	1.6	96
93	Thrombin-mediated increases in cytosolic [Ca2+] involve different mechanisms in human pulmonary artery smooth muscle and endothelial cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 295, L1048-L1055.	2.9	17
94	Mitochondria-dependent regulation of Kv currents in rat pulmonary artery smooth muscle cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 295, L61-L70.	2.9	24
95	Prednisolone inhibits PDGF-induced nuclear translocation of NF-Î²B in human pulmonary artery smooth muscle cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 295, L648-L657.	2.9	28
96	REGULATION OF PULMONARY VASOCONSTRICTION BY AGONISTS AND CAVEOLAE. Experimental Lung Research, 2008, 34, 195-208.	1.2	11
97	Bringing down the ROS: a new therapeutic approach for PPHN. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 295, L976-L978.	2.9	21
98	Antagonists of the Kv1.5 potassium channel. Drugs of the Future, 2008, 33, 0031.	0.1	1
99	Enhanced expression of pluripotency gene Octâ€4 in pulmonary artery smooth muscle cells from patients with idiopathic pulmonary arterial hypertension. FASEB Journal, 2008, 22, 1209.15.	0.5	0
100	Electrophysiological characterization of cells isolated from endarterectomized tissue from patients with chronic thromboembolic pulmonary hypertension (CTEPH).. FASEB Journal, 2008, 22, 1209.14.	0.5	0
101	Involvement of Na + â€H + exchanger in hypoxiaâ€mediated inhibition of voltageâ€gated K + channels in rat small pulmonary arterial myocytes. FASEB Journal, 2008, 22, 186-186.	0.5	1
102	Hypoxia divergently regulates production of reactive oxygen species in human pulmonary and coronary artery smooth muscle cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 293, L952-L959.	2.9	53
103	Functional characterization of voltage-gated K+ channels in mouse pulmonary artery smooth muscle cells. American Journal of Physiology - Cell Physiology, 2007, 293, C928-C937.	4.6	17
104	TRP channels in hypertension. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2007, 1772, 895-906.	3.8	98
105	Development of Novel Human Alveolar Epithelial Cell Models to Study Distal Lung Biology and Disease. SSRN Electronic Journal, 0, , .	0.4	0
106	Efficient Generation and Transcriptomic Profiling of Human iPSC-Derived Pulmonary Neuroendocrine Cells. SSRN Electronic Journal, 0, , .	0.4	0
107	Stem Cells, Cell Therapies, and Bioengineering in Lung Biology and Disease 2021. American Journal of Physiology - Lung Cellular and Molecular Physiology, 0, , .	2.9	5