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	Embryonic stem cell potency fluctuates with endogenous retrovirus activity. Nature, 2012, 487, 57-63.	27.8	925
2	Functional Gene Correction for Cystic Fibrosis in Lung Epithelial Cells Generated from Patient iPSCs. Cell Reports, 2015, 12, 1385-1390.	6.4	272
3	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
4	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
5	TRP channels in hypertension. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2007, 1772, 895-906.	3.8	98
6	Adenylyl Cyclase Type 6 Deletion Decreases Left Ventricular Function via Impaired Calcium Handling. Circulation, 2008, 117, 61-69.	1.6	96
7	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
8	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
9	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
10	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
11	Brief Report: Efficient Generation of Hematopoietic Precursors and Progenitors from Human Pluripotent Stem Cell Lines. Stem Cells, 2011, 29, 1158-1164.	3.2	69
12	Lymphoid Regeneration from Gene-Corrected SCID-X1 Subject-Derived iPSCs. Cell Stem Cell, 2015, 16, 367-372.	11.1	68
13	The anti-diabetic drug dapagliflozin induces vasodilation via activation of PKG and Kv channels. Life Sciences, 2018, 197, 46-55.	4.3	65
14	Functional Ion Channels in Human Pulmonary Artery Smooth Muscle Cells: Voltageâ€Dependent Cation Channels. Pulmonary Circulation, 2011, 1, 48-71.	1.7	64
15	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
16	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
17	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
18	Idiopathic pulmonary arterial hypertension. DMM Disease Models and Mechanisms, 2010, 3, 268-273.	2.4	57

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19	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
20	Stem cells and lung regeneration. American Journal of Physiology - Cell Physiology, 2020, 319, C675-C693.	4.6	50
21	Endothelial and Smooth Muscle Cell Ion Channels in Pulmonary Vasoconstriction and Vascular Remodeling. , 2011, 1, 1555-1602.		38
22	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
23	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
24	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
25	Multiscale mechanics of mucociliary clearance in the lung. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190160.	4.0	31
26	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
27	Prednisolone inhibits PDGF-induced nuclear translocation of NF-ÎºB in human pulmonary artery smooth muscle cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 295, L648-L657.	2.9	28
28	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
29	Thrombin-mediated activation of Akt signaling contributes to pulmonary vascular remodeling in pulmonary hypertension. Physiological Reports, 2013, 1, e00190.	1.7	24
30	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
31	Regulation of Ca²⁺Signaling in Pulmonary Hypertension. Korean Journal of Physiology and Pharmacology, 2013, 17, 1.	1.2	20
32	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
33	Efficient Generation and Transcriptomic Profiling of Human iPSC-Derived Pulmonary Neuroendocrine Cells. IScience, 2020, 23, 101083.	4.1	20
34	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
35	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
36	Animal models of pulmonary hypertension: Rho kinase inhibition. Progress in Biophysics and Molecular Biology, 2012, 109, 67-75.	2.9	18

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37	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
38	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
39	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
40	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
41	Development of human alveolar epithelial cell models to study distal lung biology and disease. IScience, 2022, 25, 103780.	4.1	15
42	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
43	Application of iPSC to Modelling of Respiratory Diseases. Advances in Experimental Medicine and Biology, 2019, 1237, 1-16.	1.6	14
44	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
45	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
46	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
47	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
48	REGULATION OF PULMONARY VASOCONSTRICTION BY AGONISTS AND CAVEOLAE. Experimental Lung Research, 2008, 34, 195-208.	1.2	11
49	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
50	Direct effect of protein kinase C inhibitors on cardiovascular ion channels. BMB Reports, 2011, 44, 559-565.	2.4	11
51	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
52	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
53	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
54	Identification of Functional Progenitor Cells in the Pulmonary Vasculature. Pulmonary Circulation, 2012, 2, 84-100.	1.7	9

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55	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
56	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
57	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
58	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
59	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
60	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
61	Side-effects of protein kinase inhibitors on ion channels. Journal of Biosciences, 2013, 38, 937-949.	1.1	7
62	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
63	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
64	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
65	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
66	Engineering Tissue-Informed Biomaterials to Advance Pulmonary Regenerative Medicine. Frontiers in Medicine, 2021, 8, 647834.	2.6	5
67	Emi2 enables centriole amplification during multiciliated cell differentiation. Science Advances, 2022, 8, eabm7538.	10.3	5
68	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
69	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
70	The One-Stop Gyrification Station - Challenges and New Technologies. Progress in Neurobiology, 2021, 204, 102111.	5.7	4
71	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
72	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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73	Correcting CFTR: New Gene Editing Strategies for Rescuing CFTR Function ExÂVivo. Cell Stem Cell, 2020, 26, 476-478.	11.1	3
74	Induced pluripotent stem cells for generating lung airway stem cells and modelling respiratory disease. , 2021, , 190-204.		3
75	Ion Channels and Transporters in the Pulmonary Vasculature: A Focus on Smooth Muscle. , 2011, , 223-244.		3
76	Fine tuning I_{CRAC}: the interactions of STIMâ€1 and Orai. Journal of Physiology, 2009, 587, 15-16.	2.9	2
77	Protocol for Differentiation of Human iPSCs into Pulmonary Neuroendocrine Cells. STAR Protocols, 2020, 1, 100068.	1.2	2
78	Stem Cells, Cell Therapies, and Bioengineering in Lung Biology and Disease 2019. ERJ Open Research, 2020, 6, 00123-2020.	2.6	2
79	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
80	CRISPR/Cas9 Editing in Induced Pluripotent Stem Cells: A Way Forward for Treating Cystic Fibrosis?. , 2019, , 153-178.		2
81	Optical Control of Phosphoinositide Binding: Rapid Activation of Subcellular Protein Translocation and Cell Signaling. ACS Synthetic Biology, 2021, 10, 2886-2895.	3.8	2
82	The Hope for iPSC in Lung Stem Cell Therapy and Disease Modeling. Pancreatic Islet Biology, 2015, , 113-143.	0.3	1
83	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
84	Identification of Adult Stem and Progenitor Cells in the Pulmonary Vasculature. , 2011, , 621-636.		1
85	Antagonists of the Kv1.5 potassium channel. Drugs of the Future, 2008, 33, 0031.	0.1	1
86	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
87	Animal models of pulmonary vascular disease. Drug Discovery Today: Disease Models, 2010, 7, 57-59.	1.2	0
88	Human Pulmonary Artery Endothelial Cell Exposure To Fibrin(ogen) Augments Intracellular Calcium Responses To Thrombin. , 2011, , .		0
89	The Role of Stem Cells in Vascular Remodeling in CTEPH. Pancreatic Islet Biology, 2015, , 277-287.	0.3	0
90	Intermittent Reprogramming: A Breath of Fresh Air for Lung Regeneration. Cell Stem Cell, 2017, 21, 712-714.	11.1	0

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91	More than a Tight Junction: Crucial Role of Claudin-18 in the Response to Airway Injury. , 2019, , .		0
92	Claudin-18 Is a Novel Regulator of Airway Progenitor Cell Homeostasis and Differentiation. , 2020, , .		0
93	Development of Novel Human Alveolar Epithelial Cell Models to Study Distal Lung Biology and Disease. SSRN Electronic Journal, 0, , .	0.4	0
94	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
95	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
96	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
97	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
98	Functional Characterization of Ca 2+ and K + Channels in Human Embryonic Stem Cells. FASEB Journal, 2009, 23, 998.28.	0.5	0
99	Characterization of Ion Channels in Progenitor Cells Isolated From CTEPH Patients. FASEB Journal, 2010, 24, 1023.25.	0.5	0
100	Adult Lung Stem Cells. Pancreatic Islet Biology, 2014, , 287-318.	0.3	0
101	Generation of multiciliated cells in functional airway epithelium from human iPSC (1094.5). FASEB Journal, 2014, 28, 1094.5.	0.5	0
102	Genomic Editing of Stem Cells for Modeling and Therapy of Genetic Diseases. FASEB Journal, 2015, 29, LB78.	0.5	0
103	Induced Pluripotent Stem Cellâ€Derived Basal Cells Provide A Novel Source of Multilineage Airway Epithelial Cells. FASEB Journal, 2019, 33, .	0.5	0
104	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
105	Efficient Generation and Transcriptomic Profiling of Human iPSC-Derived Pulmonary Neuroendocrine Cells. SSRN Electronic Journal, 0, , .	0.4	0
106	Regulation of Airway Progenitor Homeostasis and Cell Composition by Tight Junction Protein Claudinâ€18. FASEB Journal, 2020, 34, 1-1.	0.5	0
107	Induced pluripotent stem cells. , 2022, , 1-58.		0