

# Ayako Makino

## List of Publications by Year in descending order

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101  
papers

3,444  
citations

117625

34  
h-index

155660

55  
g-index

103  
all docs

103  
docs citations

103  
times ranked

4529  
citing authors

#	ARTICLE	IF	CITATIONS
1	Notch3 signaling promotes the development of pulmonary arterial hypertension. <i>Nature Medicine</i> , 2009, 15, 1289-1297.	30.7	303
2	Increased Renal Medullary Oxidative Stress Produces Hypertension. <i>Hypertension</i> , 2002, 39, 667-672.	2.7	155
3	Increased Renal Medullary H <sub>2</sub> O <sub>2</sub> Leads to Hypertension. <i>Hypertension</i> , 2003, 42, 25-30.	2.7	127
4	Endothelial HIF-2 $\alpha$ Contributes to Severe Pulmonary Hypertension by Inducing Endothelial-to-Mesenchymal Transition. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 314, ajplung.00096.2.	2.9	121
5	Enhanced Ca <sup>2+</sup> -Sensing Receptor Function in Idiopathic Pulmonary Arterial Hypertension. <i>Circulation Research</i> , 2012, 111, 469-481.	4.5	105
6	Mechanisms underlying the attenuation of endothelium-dependent vasodilatation in the mesenteric arterial bed of the streptozotocin-induced diabetic rat. <i>British Journal of Pharmacology</i> , 2000, 130, 549-556.	5.4	95
7	Upregulated expression of STIM2, TRPC6, and Orai2 contributes to the transition of pulmonary arterial smooth muscle cells from a contractile to proliferative phenotype. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 308, C581-C593.	4.6	91
8	Regulation of mitochondrial morphology and function by <i>O</i> -GlcNAcylation in neonatal cardiac myocytes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R1296-R1302.	1.8	90
9	Notch Activation of Ca <sup>2+</sup> Signaling in the Development of Hypoxic Pulmonary Vasoconstriction and Pulmonary Hypertension. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 53, 355-367.	2.9	86
10	STIM2 Contributes to Enhanced Store-Operated Ca <sup>2+</sup> Entry in Pulmonary Artery Smooth Muscle Cells from Patients with Idiopathic Pulmonary Arterial Hypertension. <i>Pulmonary Circulation</i> , 2011, 1, 84-94.	1.7	78
11	Deficiency of Akt1, but not Akt2, attenuates the development of pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 308, L208-L220.	2.9	75
12	SGLT inhibitors attenuate NO-dependent vascular relaxation in the pulmonary artery but not in the coronary artery. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 309, L1027-L1036.	2.9	75
13	Chronic hypoxia selectively enhances L- and T-type voltage-dependent Ca <sup>2+</sup> channel activity in pulmonary artery by upregulating Cav1.2 and Cav3.2. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013, 305, L154-L164.	2.9	73
14	Downregulation of connexin40 is associated with coronary endothelial cell dysfunction in streptozotocin-induced diabetic mice. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C221-C230.	4.6	72
15	Elevated plasma endothelin-1 level in streptozotocin-induced diabetic rats and responsiveness of the mesenteric arterial bed to endothelin-1. <i>British Journal of Pharmacology</i> , 1998, 123, 1065-1072.	5.4	71
16	Mitochondrial function in vascular endothelial cell in diabetes. <i>Journal of Smooth Muscle Research</i> , 2012, 48, 1-26.	1.2	71
17	Pathogenic role of calcium-sensing receptors in the development and progression of pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 310, L846-L859.	2.9	69
18	ATP promotes cell survival via regulation of cytosolic [Ca <sup>2+</sup> ] and Bcl-2/Bax ratio in lung cancer cells. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 310, C99-C114.	4.6	68

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19	Coronary endothelial dysfunction and mitochondrial reactive oxygen species in type 2 diabetic mice. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C1033-C1040.	4.6	65
20	STIM1 Restores Coronary Endothelial Function in Type 1 Diabetic Mice. <i>Circulation Research</i> , 2012, 111, 1166-1175.	4.5	57
21	Thyroid Hormone Receptor- $\beta$ Is Associated with Coronary Angiogenesis during Pathological Cardiac Hypertrophy. <i>Endocrinology</i> , 2009, 150, 2008-2015.	2.8	54
22	Flow shear stress enhances intracellular $Ca^{2+}$ signaling in pulmonary artery smooth muscle cells from patients with pulmonary arterial hypertension. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 307, C373-C383.	4.6	54
23	Calcium-Sensing Receptor Regulates Cytosolic $[Ca^{2+}]$ and Plays a Major Role in the Development of Pulmonary Hypertension. <i>Frontiers in Physiology</i> , 2016, 7, 517.	2.8	51
24	The role of oxysterols in control of endothelial stiffness. <i>Journal of Lipid Research</i> , 2012, 53, 1348-1358.	4.2	50
25	<i>O</i> -GlcNAcase overexpression reverses coronary endothelial cell dysfunction in type 1 diabetic mice. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 309, C593-C599.	4.6	50
26	Role of Reactive Oxygen Species and Redox in Regulating the Function of Transient Receptor Potential Channels. <i>Antioxidants and Redox Signaling</i> , 2011, 15, 1549-1565.	5.4	47
27	Pathogenic Role of mTORC1 and mTORC2 in Pulmonary Hypertension. <i>JACC Basic To Translational Science</i> , 2018, 3, 744-762.	4.1	47
28	VDAC: old protein with new roles in diabetes. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C1055-C1060.	4.6	45
29	STIM2 (Stromal Interaction Molecule 2)-Mediated Increase in Resting Cytosolic Free $Ca^{2+}$ Concentration Stimulates PASM C Proliferation in Pulmonary Arterial Hypertension. <i>Hypertension</i> , 2018, 71, 518-529.	2.7	45
30	Dihydropyridine $Ca^{2+}$ Channel Blockers Increase Cytosolic $[Ca^{2+}]$ by Activating $Ca^{2+}$ -sensing Receptors in Pulmonary Arterial Smooth Muscle Cells. <i>Circulation Research</i> , 2013, 112, 640-650.	4.5	42
31	Upregulation of Piezo1 (Piezo Type Mechanosensitive Ion Channel Component 1) Enhances the Intracellular Free Calcium in Pulmonary Arterial Smooth Muscle Cells From Idiopathic Pulmonary Arterial Hypertension Patients. <i>Hypertension</i> , 2021, 77, 1974-1989.	2.7	42
32	Nitrosyl-Cobinamide, a New and Direct Nitric Oxide-Releasing Drug Effective <i>In Vivo</i> . <i>Experimental Biology and Medicine</i> , 2007, 232, 1432-1440.	2.4	41
33	Divergent changes of p53 in pulmonary arterial endothelial and smooth muscle cells involved in the development of pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 316, L216-L228.	2.9	41
34	Mechanotransduction in leukocyte activation: a review. <i>Biorheology</i> , 2007, 44, 221-49.	0.4	39
35	Endothelial and Smooth Muscle Cell Ion Channels in Pulmonary Vasoconstriction and Vascular Remodeling. , 2011, 1, 1555-1602.		38
36	Chloroquine is a potent pulmonary vasodilator that attenuates hypoxia-induced pulmonary hypertension. <i>British Journal of Pharmacology</i> , 2017, 174, 4155-4172.	5.4	37

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37	Tetramethylpyrazine: A promising drug for the treatment of pulmonary hypertension. <i>British Journal of Pharmacology</i> , 2020, 177, 2743-2764.	5.4	36
38	Apolipoprotein E Enhances Endothelial-NO Production by Modulating Caveolin 1 Interaction With Endothelial NO Synthase. <i>Hypertension</i> , 2012, 60, 1040-1046.	2.7	34
39	Akt2 (Protein Kinase B Beta) Stabilizes ATP7A, a Copper Transporter for Extracellular Superoxide Dismutase, in Vascular Smooth Muscle. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 529-541.	2.4	31
40	Capsaicin-induced Ca <sup>2+</sup> signaling is enhanced via upregulated TRPV1 channels in pulmonary artery smooth muscle cells from patients with idiopathic PAH. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 312, L309-L325.	2.9	30
41	Aortic pathology from protein kinase G activation is prevented by an antioxidant vitamin B12 analog. <i>Nature Communications</i> , 2019, 10, 3533.	12.8	30
42	mTOR Signaling in Pulmonary Vascular Disease: Pathogenic Role and Therapeutic Target. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2144.	4.1	29
43	Endothelial upregulation of mechanosensitive channel Piezo1 in pulmonary hypertension. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 321, C1010-C1027.	4.6	29
44	Hypoxia selectively upregulates cation channels and increases cytosolic [Ca <sup>2+</sup> ] in pulmonary, but not coronary, arterial smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 314, C504-C517.	4.6	28
45	Overexpression of p53 due to excess protein O-GlcNAcylation is associated with coronary microvascular disease in type 2 diabetes. <i>Cardiovascular Research</i> , 2020, 116, 1186-1198.	3.8	28
46	Thyroid hormone receptor- $\beta$ and vascular function. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C1346-C1352.	4.6	27
47	Altered Airway Microbiota Composition in Patients With Pulmonary Hypertension. <i>Hypertension</i> , 2020, 76, 1589-1599.	2.7	27
48	A comparative study on the rat aorta and mesenteric arterial bed of the possible role of nitric oxide in the desensitization of the vasoconstrictor response to an $\alpha$ -adrenoceptor agonist. <i>British Journal of Pharmacology</i> , 1997, 120, 1221-1228.	5.4	26
49	MicroRNA-mediated downregulation of K <sup>+</sup> channels in pulmonary arterial hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L10-L26.	2.9	25
50	Mechanisms underlying increased release of endothelin-1 from aorta in diabetic rats. <i>Peptides</i> , 2001, 22, 639-645.	2.4	24
51	Mitochondrial connexin40 regulates mitochondrial calcium uptake in coronary endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 312, C398-C406.	4.6	23
52	TRPC6, a therapeutic target for pulmonary hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 321, L1161-L1182.	2.9	22
53	In vivo selective expression of thyroid hormone receptor $\beta$ 1 in endothelial cells attenuates myocardial injury in experimental myocardial infarction in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R340-R346.	1.8	21
54	Diabetes Mellitus Associates with Increased Right Ventricular Afterload and Remodeling in Pulmonary Arterial Hypertension. <i>American Journal of Medicine</i> , 2018, 131, 702.e7-702.e13.	1.5	20

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55	Overexpression of hexokinase 2 reduces mitochondrial calcium overload in coronary endothelial cells of type 2 diabetic mice. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 314, C732-C740.	4.6	20
56	Hypoxia-induced pulmonary hypertension in type 2 diabetic mice. <i>Pulmonary Circulation</i> , 2017, 7, 175-185.	1.7	19
57	Functional characterization of voltage-dependent Ca <sup>2+</sup> channels in mouse pulmonary arterial smooth muscle cells: divergent effect of ROS. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 304, C1042-C1052.	4.6	18
58	Notch enhances Ca <sup>2+</sup> entry by activating calcium-sensing receptors and inhibiting voltage-gated K <sup>+</sup> channels. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 318, C954-C968.	4.6	18
59	Revisiting the mechanism of hypoxic pulmonary vasoconstriction using isolated perfused/ventilated mouse lung. <i>Pulmonary Circulation</i> , 2020, 10, 1-18.	1.7	15
60	Halofuginone, a promising drug for treatment of pulmonary hypertension. <i>British Journal of Pharmacology</i> , 2021, 178, 3373-3394.	5.4	15
61	Tension measurement in isolated rat and mouse pulmonary artery. <i>Drug Discovery Today: Disease Models</i> , 2010, 7, 123-130.	1.2	14
62	Mechanosensitive channel Piezo1 is required for pulmonary artery smooth muscle cell proliferation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, 322, L737-L760.	2.9	14
63	Isolation of Mouse Coronary Endothelial Cells. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	13
64	Pulmonary vascular dysfunction in metabolic syndrome. <i>Journal of Physiology</i> , 2019, 597, 1121-1141.	2.9	13
65	Endothelial platelet-derived growth factor-mediated activation of smooth muscle platelet-derived growth factor receptors in pulmonary arterial hypertension. <i>Pulmonary Circulation</i> , 2020, 10, 1-15.	1.7	13
66	Endothelial eNAMPT drives EndMT and preclinical PH: rescue by an eNAMPT-neutralizing mAb. <i>Pulmonary Circulation</i> , 2021, 11, 1-14.	1.7	13
67	Transcriptomic profiles in pulmonary arterial hypertension associate with disease severity and identify novel candidate genes. <i>Pulmonary Circulation</i> , 2020, 10, 1-5.	1.7	11
68	HuR/Cx40 downregulation causes coronary microvascular dysfunction in type 2 diabetes. <i>JCI Insight</i> , 2021, 6, .	5.0	11
69	Chronic Hypoxia Decreases Endothelial Connexin 40, Attenuates Endothelium-Dependent Hyperpolarization-Mediated Relaxation in Small Distal Pulmonary Arteries, and Leads to Pulmonary Hypertension. <i>Journal of the American Heart Association</i> , 2020, 9, e018327.	3.7	10
70	Flavored and Nicotine-Containing E-Cigarettes Induce Impaired Angiogenesis and Diabetic Wound Healing via Increased Endothelial Oxidative Stress and Reduced NO Bioavailability. <i>Antioxidants</i> , 2022, 11, 904.	5.1	10
71	Effects of Chronic Administration of L-Arginine on Vasoactive Responses induced by Endothelin-1 and its Plasma Level in Streptozotocin-Induced Diabetic Rats.. <i>Journal of Smooth Muscle Research</i> , 2002, 38, 101-115.	1.2	8
72	Chloroquine differentially modulates coronary vasodilation in control and diabetic mice. <i>British Journal of Pharmacology</i> , 2020, 177, 314-327.	5.4	8

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73	Mouse model of experimental pulmonary hypertension: Lung angiogram and right heart catheterization. <i>Pulmonary Circulation</i> , 2021, 11, 1-17.	1.7	8
74	Fenfluramine-induced Gene Dysregulation in Human Pulmonary Artery Smooth Muscle and Endothelial Cells. <i>Pulmonary Circulation</i> , 2011, 1, 405-418.	1.7	7
75	Pulmonary vessel casting in a rat model of monocrotaline-mediated pulmonary hypertension. <i>Pulmonary Circulation</i> , 2020, 10, 1-7.	1.7	6
76	Efferocytosis of vascular cells in cardiovascular disease. , 2022, 229, 107919.		6
77	Mitochondrial Ion Channels in Metabolic Disease. , 2016, , 397-419.		6
78	Pathogenic and Therapeutic Role of MicroRNA in Pulmonary Arterial Hypertension. , 2017, , 31-54.		2
79	miRNA-29b Directly Downregulates K <sup>+</sup> Channel Expression and Function in IPAH-PASMC. <i>FASEB Journal</i> , 2015, 29, 662.16.	0.5	2
80	Upregulation of Calcium Homeostasis Modulators in Contractile-To-Proliferative Phenotypical Transition of Pulmonary Arterial Smooth Muscle Cells. <i>Frontiers in Physiology</i> , 2021, 12, 714785.	2.8	1
81	Smooth Muscle Cell Ion Channels in Pulmonary Arterial Hypertension: Pathogenic Role in Pulmonary Vasoconstriction and Vascular Remodeling. , 2016, , 295-324.		1
82	Increased expression of microRNA-29b attenuates function of Ca <sup>2+</sup> -activated K <sup>+</sup> channels in human PASMC from idiopathic PAH patients. <i>FASEB Journal</i> , 2018, 32, 581.11.	0.5	1
83	Decreased MicroRNA-153 Promotes Endothelial-to-Mesenchymal Transition in Idiopathic Pulmonary Arterial Hypertension. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	1
84	G Protein-coupled Receptor as a Mechanosensor for Fluid Shear in Neutrophil. <i>FASEB Journal</i> , 2006, 20, A281.	0.5	0
85	Role of Connexin40 in Coronary Endothelial Cell Dysfunction in Type 1 Diabetic Mice. <i>FASEB Journal</i> , 2008, 22, 964.16.	0.5	0
86	A TRIBUTE TO DR. YUAN-CHENG B. FUNG. , 2009, , 339-342.		0
87	Selectively upregulated microRNAs in pulmonary artery smooth muscle cells from patients with idiopathic pulmonary arterial hypertension. <i>FASEB Journal</i> , 2011, 25, 1b516.	0.5	0
88	microRNA 29b is upregulated in pulmonary artery smooth muscle cells from patients with idiopathic pulmonary arterial hypertension and inhibits K <sup>+</sup> channel expression and function. <i>FASEB Journal</i> , 2012, 26, 884.10.	0.5	0
89	O-GlcNacase overexpression restores coronary endothelial dysfunction in type 1 diabetic mice (1076.1). <i>FASEB Journal</i> , 2014, 28, 1076.1.	0.5	0
90	Raptor and Rictor Both Contribute to the Development and Progression of Pulmonary Arterial Hypertension. <i>FASEB Journal</i> , 2015, 29, 662.17.	0.5	0

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91	Different Pattern of ATP-mediated Increases in $[Ca^{2+}]_{cyt}$ Contributes to ATP-induced Increase in Bcl-2/Bax Ratio in Lung Cancer Cells But Not in Normal Control Cells. FASEB Journal, 2015, 29, 54.1.	0.5	0
92	Coronary microvascular dysfunction in diabetes: Role of HuR. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, SY57-2.	0.0	0
93	Calcium signaling in pulmonary hypertension: Role of STIM2. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, SY57-1.	0.0	0
94	Chronic Hypoxia Attenuates Endothelium-dependent Hyperpolarization-induced Vascular Relaxation in Pulmonary Artery and Leads to Pulmonary Hypertension. FASEB Journal, 2018, 32, .	0.5	0
95	Endothelial-dependent activation of smooth muscle PDGF Receptors enhances PASM C proliferation in IPAH. FASEB Journal, 2018, 32, lb444.	0.5	0
96	MicroRNA Profiling in Coronary Endothelial Cells in Type 2 Diabetic Mice. FASEB Journal, 2019, 33, lb516.	0.5	0
97	MicroRNA-181b Regulates $Ca^{2+}$ Influx by Targeting TRPC6 in PASM C from Patients with Idiopathic Pulmonary Arterial Hypertension. FASEB Journal, 2019, 33, .	0.5	0
98	Gap Junction Intercellular Communication and Coronary Microvascular Disease in Type 2 Diabetes. FASEB Journal, 2020, 34, 1-1.	0.5	0
99	Using Pulmonary Angiogram to Estimate Vascular Remodeling in Mice. FASEB Journal, 2020, 34, 1-1.	0.5	0
100	Calcium Homeostasis Modulator (CALHM1/2) and Pulmonary Arterial Hypertension. FASEB Journal, 2020, 34, 1-1.	0.5	0
101	Hypoxic Pulmonary Vasoconstriction in Isolated Mouse Lungs. FASEB Journal, 2020, 34, 1-1.	0.5	0