

# Ayako Makino

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Efferocytosis of vascular cells in cardiovascular disease. , 2022, 229, 107919.		6
2	Mechanosensitive channel Piezo1 is required for pulmonary artery smooth muscle cell proliferation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2022, 322, L737-L760.	2.9	14
3	Flavored and Nicotine-Containing E-Cigarettes Induce Impaired Angiogenesis and Diabetic Wound Healing via Increased Endothelial Oxidative Stress and Reduced NO Bioavailability. Antioxidants, 2022, 11, 904.	5.1	10
4	mTOR Signaling in Pulmonary Vascular Disease: Pathogenic Role and Therapeutic Target. International Journal of Molecular Sciences, 2021, 22, 2144.	4.1	29
5	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. Hypertension, 2021, 77, 1974-1989.	2.7	42
6	Halofuginone, a promising drug for treatment of pulmonary hypertension. British Journal of Pharmacology, 2021, 178, 3373-3394.	5.4	15
7	Upregulation of Calcium Homeostasis Modulators in Contractile-To-Proliferative Phenotypical Transition of Pulmonary Arterial Smooth Muscle Cells. Frontiers in Physiology, 2021, 12, 714785.	2.8	1
8	Mouse model of experimental pulmonary hypertension: Lung angiogram and right heart catheterization. Pulmonary Circulation, 2021, 11, 1-17.	1.7	8
9	Endothelial upregulation of mechanosensitive channel Piezo1 in pulmonary hypertension. American Journal of Physiology - Cell Physiology, 2021, 321, C1010-C1027.	4.6	29
10	TRPC6, a therapeutic target for pulmonary hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 321, L1161-L1182.	2.9	22
11	Endothelial eNAMPT drives EndMT and preclinical PH: rescue by an eNAMPT-neutralizing mAb. Pulmonary Circulation, 2021, 11, 1-14.	1.7	13
12	HuR/Cx40 downregulation causes coronary microvascular dysfunction in type 2 diabetes. JCI Insight, 2021, 6, .	5.0	11
13	Overexpression of p53 due to excess protein O-GlcNAcylation is associated with coronary microvascular disease in type 2 diabetes. Cardiovascular Research, 2020, 116, 1186-1198.	3.8	28
14	MicroRNA-mediated downregulation of K <sup>+</sup> channels in pulmonary arterial hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L10-L26.	2.9	25
15	Chloroquine differentially modulates coronary vasodilation in control and diabetic mice. British Journal of Pharmacology, 2020, 177, 314-327.	5.4	8
16	Endothelial platelet-derived growth factor-mediated activation of smooth muscle platelet-derived growth factor receptors in pulmonary arterial hypertension. Pulmonary Circulation, 2020, 10, 1-15.	1.7	13
17	Revisiting the mechanism of hypoxic pulmonary vasoconstriction using isolated perfused/ventilated mouse lung. Pulmonary Circulation, 2020, 10, 1-18.	1.7	15
18	Pulmonary vessel casting in a rat model of monocrotaline-mediated pulmonary hypertension. Pulmonary Circulation, 2020, 10, 1-7.	1.7	6

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19	Altered Airway Microbiota Composition in Patients With Pulmonary Hypertension. <i>Hypertension</i> , 2020, 76, 1589-1599.	2.7	27
20	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
21	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
22	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
23	Tetramethylpyrazine: A promising drug for the treatment of pulmonary hypertension. <i>British Journal of Pharmacology</i> , 2020, 177, 2743-2764.	5.4	36
24	Decreased MicroRNA-153 Promotes Endothelial-to-Mesenchymal Transition in Idiopathic Pulmonary Arterial Hypertension. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	1
25	Gap Junction Intercellular Communication and Coronary Microvascular Disease in Type 2 Diabetes. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
26	Using Pulmonary Angiogram to Estimate Vascular Remodeling in Mice. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
27	Calcium Homeostasis Modulator (CALHM1/2) and Pulmonary Arterial Hypertension. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
28	Hypoxic Pulmonary Vasoconstriction in Isolated Mouse Lungs. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0
29	Pulmonary vascular dysfunction in metabolic syndrome. <i>Journal of Physiology</i> , 2019, 597, 1121-1141.	2.9	13
30	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
31	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
32	MicroRNA Profiling in Coronary Endothelial Cells in Type 2 Diabetic Mice. <i>FASEB Journal</i> , 2019, 33, lb516.	0.5	0
33	MicroRNA-181b Regulates Ca <sup>2+</sup> Influx by Targeting TRPC6 in PASM from Patients with Idiopathic Pulmonary Arterial Hypertension. <i>FASEB Journal</i> , 2019, 33, .	0.5	0
34	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
35	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
36	STIM2 (Stromal Interaction Molecule 2)-Mediated Increase in Resting Cytosolic Free Ca <sup>2+</sup> Concentration Stimulates PASM Proliferation in Pulmonary Arterial Hypertension. <i>Hypertension</i> , 2018, 71, 518-529.	2.7	45

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37	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
38	Pathogenic Role of mTORC1 and mTORC2 in Pulmonary Hypertension. <i>JACC Basic To Translational Science</i> , 2018, 3, 744-762.	4.1	47
39	Hypoxia selectively upregulates cation channels and increases cytosolic $[Ca^{2+}]$ in pulmonary, but not coronary, arterial smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 314, C504-C517.	4.6	28
40	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
41	Coronary microvascular dysfunction in diabetes: Role of HuR. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, SY57-2.	0.0	0
42	Calcium signaling in pulmonary hypertension: Role of STIM2. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, SY57-1.	0.0	0
43	Chronic Hypoxia Attenuates Endothelium-Dependent Hyperpolarization-Induced Vascular Relaxation in Pulmonary Artery and Leads to Pulmonary Hypertension. <i>FASEB Journal</i> , 2018, 32, .	0.5	0
44	Increased expression of microRNA-29b attenuates function of $Ca^{2+}$ -activated $K^{+}$ channels in human PASM from idiopathic PAH patients. <i>FASEB Journal</i> , 2018, 32, 581.11.	0.5	1
45	Endothelial-Dependent activation of smooth muscle PDGF Receptors enhances PASM proliferation in IPAH. <i>FASEB Journal</i> , 2018, 32, lb444.	0.5	0
46	Pathogenic and Therapeutic Role of MicroRNA in Pulmonary Arterial Hypertension. , 2017, , 31-54.		2
47	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
48	Capsaicin-induced $Ca^{2+}$ 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
49	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
50	Hypoxia-induced pulmonary hypertension in type 2 diabetic mice. <i>Pulmonary Circulation</i> , 2017, 7, 175-185.	1.7	19
51	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
52	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
53	Isolation of Mouse Coronary Endothelial Cells. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	13
54	ATP promotes cell survival via regulation of cytosolic $[Ca^{2+}]$ 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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55	Smooth Muscle Cell Ion Channels in Pulmonary Arterial Hypertension: Pathogenic Role in Pulmonary Vasoconstriction and Vascular Remodeling. , 2016, , 295-324.		1
56	Mitochondrial Ion Channels in Metabolic Disease. , 2016, , 397-419.		6
57	Upregulated expression of STIM2, TRPC6, and Orai2 contributes to the transition of pulmonary arterial smooth muscle cells from a contractile to proliferative phenotype. American Journal of Physiology - Cell Physiology, 2015, 308, C581-C593.	4.6	91
58	Deficiency of Akt1, but not Akt2, attenuates the development of pulmonary hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L208-L220.	2.9	75
59	Notch Activation of Ca <sup>2+</sup> Signaling in the Development of Hypoxic Pulmonary Vasoconstriction and Pulmonary Hypertension. American Journal of Respiratory Cell and Molecular Biology, 2015, 53, 355-367.	2.9	86
60	<i>O</i> -GlcNAcase overexpression reverses coronary endothelial cell dysfunction in type 1 diabetic mice. American Journal of Physiology - Cell Physiology, 2015, 309, C593-C599.	4.6	50
61	SGLT inhibitors attenuate NO-dependent vascular relaxation in the pulmonary artery but not in the coronary artery. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L1027-L1036.	2.9	75
62	Raptor and Rictor Both Contribute to the Development and Progression of Pulmonary Arterial Hypertension. FASEB Journal, 2015, 29, 662.17.	0.5	0
63	miRNAâ€²9b Directly Downregulates K <sup>+</sup> Channel Expression and Function in IPAHâ€²ASMC. FASEB Journal, 2015, 29, 662.16.	0.5	2
64	Different Pattern of ATPâ€²mediated Increases in [Ca <sup>2+</sup> ] <sub>cyt</sub> Contributes to ATPâ€²induced Increase in Bclâ€²/Bax Ratio in Lung Cancer Cells But Not in Normal Control Cells. FASEB Journal, 2015, 29, 54.1.	0.5	0
65	Flow shear stress enhances intracellular Ca <sup>2+</sup> signaling in pulmonary artery smooth muscle cells from patients with pulmonary arterial hypertension. American Journal of Physiology - Cell Physiology, 2014, 307, C373-C383.	4.6	54
66	In vivo selective expression of thyroid hormone receptor Î±1 in endothelial cells attenuates myocardial injury in experimental myocardial infarction in mice. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R340-R346.	1.8	21
67	Oâ€²GlcNacase overexpression restores coronary endothelial dysfunction in type 1 diabetic mice (1076.1). FASEB Journal, 2014, 28, 1076.1.	0.5	0
68	Dihydropyridine Ca <sup>2+</sup> Channel Blockers Increase Cytosolic [Ca <sup>2+</sup> ] by Activating Ca <sup>2+</sup> -sensing Receptors in Pulmonary Arterial Smooth Muscle Cells. Circulation Research, 2013, 112, 640-650.	4.5	42
69	Coronary endothelial dysfunction and mitochondrial reactive oxygen species in type 2 diabetic mice. American Journal of Physiology - Cell Physiology, 2013, 305, C1033-C1040.	4.6	65
70	Functional characterization of voltage-dependent Ca <sup>2+</sup> channels in mouse pulmonary arterial smooth muscle cells: divergent effect of ROS. American Journal of Physiology - Cell Physiology, 2013, 304, C1042-C1052.	4.6	18
71	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. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 305, L154-L164.	2.9	73
72	Thyroid hormone receptor-Î± and vascular function. American Journal of Physiology - Cell Physiology, 2012, 302, C1346-C1352.	4.6	27

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73	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
74	The role of oxysterols in control of endothelial stiffness. <i>Journal of Lipid Research</i> , 2012, 53, 1348-1358.	4.2	50
75	STIM1 Restores Coronary Endothelial Function in Type 1 Diabetic Mice. <i>Circulation Research</i> , 2012, 111, 1166-1175.	4.5	57
76	VDAC: old protein with new roles in diabetes. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 303, C1055-C1060.	4.6	45
77	Enhanced Ca <sup>2+</sup> -Sensing Receptor Function in Idiopathic Pulmonary Arterial Hypertension. <i>Circulation Research</i> , 2012, 111, 469-481.	4.5	105
78	Mitochondrial function in vascular endothelial cell in diabetes. <i>Journal of Smooth Muscle Research</i> , 2012, 48, 1-26.	1.2	71
79	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
80	Regulation of mitochondrial morphology and function by O-GlcNAcylation in neonatal cardiac myocytes. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R1296-R1302.	1.8	90
81	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
82	Endothelial and Smooth Muscle Cell Ion Channels in Pulmonary Vasoconstriction and Vascular Remodeling. , 2011, 1, 1555-1602.		38
83	Fenfluramine-Induced Gene Dysregulation in Human Pulmonary Artery Smooth Muscle and Endothelial Cells. <i>Pulmonary Circulation</i> , 2011, 1, 405-418.	1.7	7
84	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
85	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
86	Tension measurement in isolated rat and mouse pulmonary artery. <i>Drug Discovery Today: Disease Models</i> , 2010, 7, 123-130.	1.2	14
87	Thyroid Hormone Receptor- $\beta^2$ Is Associated with Coronary Angiogenesis during Pathological Cardiac Hypertrophy. <i>Endocrinology</i> , 2009, 150, 2008-2015.	2.8	54
88	Notch3 signaling promotes the development of pulmonary arterial hypertension. <i>Nature Medicine</i> , 2009, 15, 1289-1297.	30.7	303
89	A TRIBUTE TO DR. YUAN-CHENG B. FUNG. , 2009, , 339-342.		0
90	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

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91	Role of Connexin40 in Coronary Endothelial Cell Dysfunction in Type 1 Diabetic Mice. FASEB Journal, 2008, 22, 964.16.	0.5	0
92	Nitrosyl-Cobinamide, a New and Direct Nitric Oxideâ€‘Releasing Drug Effective <i>in Vivo</i> . Experimental Biology and Medicine, 2007, 232, 1432-1440.	2.4	41
93	Mechanotransduction in leukocyte activation: a review. Biorheology, 2007, 44, 221-49.	0.4	39
94	G Proteinâ€‘coupled Receptor as a Mechanosensor for Fluid Shear in Neutrophil. FASEB Journal, 2006, 20, A281.	0.5	0
95	Increased Renal Medullary H <sub>2</sub> O <sub>2</sub> Leads to Hypertension. Hypertension, 2003, 42, 25-30.	2.7	127
96	Increased Renal Medullary Oxidative Stress Produces Hypertension. Hypertension, 2002, 39, 667-672.	2.7	155
97	Effects of Chronic Administration of L-Arginine on Vasoactive Responses induced by Endothelin-1 and its Plasma Level in Streptozotocin-Induced Diabetic Rats.. Journal of Smooth Muscle Research, 2002, 38, 101-115.	1.2	8
98	Mechanisms underlying increased release of endothelin-1 from aorta in diabetic rats. Peptides, 2001, 22, 639-645.	2.4	24
99	Mechanisms underlying the attenuation of endotheliumâ€‘dependent vasodilatation in the mesenteric arterial bed of the streptozotocinâ€‘induced diabetic rat. British Journal of Pharmacology, 2000, 130, 549-556.	5.4	95
100	Elevated plasma endothelin-1 level in streptozotocin-induced diabetic rats and responsiveness of the mesenteric arterial bed to endothelin-1. British Journal of Pharmacology, 1998, 123, 1065-1072.	5.4	71
101	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 Î± <sub>1</sub> -adrenoceptor agonist. British Journal of Pharmacology, 1997, 120, 1221-1228.	5.4	26