Hisao Yamamura

List of Publications by Year
in descending order

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89	2,123	257450	265206
papers	citations	24 h-index	42 g-index

92	92	92	2453
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	ROS-induced ROS release orchestrated by Nox4, Nox2, and mitochondria in VEGF signaling and angiogenesis. American Journal of Physiology - Cell Physiology, 2017, 312, C749-C764.	4.6	190
2	TRPM8 activation suppresses cellular viability in human melanoma. American Journal of Physiology - Cell Physiology, 2008, 295, C296-C301.	4.6	117
3	Ca2+images and K+current during depolarization in smooth muscle cells of the guinea-pig vas deferens and urinary bladder. Journal of Physiology, 1998, 510, 705-719.	2.9	116
4	Enhanced Ca ²⁺ -Sensing Receptor Function in Idiopathic Pulmonary Arterial Hypertension. Circulation Research, 2012, 111, 469-481.	4.5	105
5	Local Ca²⁺ transients and distribution of BK channels and ryanodine receptors in smooth muscle cells of guineaâ€pig vas deferens and urinary bladder. Journal of Physiology, 2001, 534, 313-326.	2.9	97
6	Notch Activation of Ca²⁺ 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
7	Pathogenic role of calcium-sensing receptors in the development and progression of pulmonary hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L846-L859.	2.9	69
8	Protons Activate the Î´-Subunit of the Epithelial Na+ Channel in Humans. Journal of Biological Chemistry, 2004, 279, 12529-12534.	3.4	66
9	TRIC-A Channels in Vascular Smooth Muscle Contribute to Blood Pressure Maintenance. Cell Metabolism, 2011, 14, 231-241.	16.2	64
10	Caveolin-1 Facilitates the Direct Coupling between Large Conductance Ca2+-activated K+ (BKCa) and Cav1.2 Ca2+ Channels and Their Clustering to Regulate Membrane Excitability in Vascular Myocytes. Journal of Biological Chemistry, 2013, 288, 36750-36761.	3.4	55
11	Accelerated Ca²⁺entry by membrane hyperpolarization due to Ca²⁺-activated K⁺channel activation in response to histamine in chondrocytes. American Journal of Physiology - Cell Physiology, 2010, 298, C786-C797.	4.6	47
12	Contribution of K_{ir}2 potassium channels to ATP-induced cell death in brain capillary endothelial cells and reconstructed HEK293 cell model. American Journal of Physiology - Cell Physiology, 2011, 300, C75-C86.	4.6	46
13	Capsazepine Is a Novel Activator of the Î´ Subunit of the Human Epithelial Na+ Channel. Journal of Biological Chemistry, 2004, 279, 44483-44489.	3.4	45
14	Dihydropyridine Ca ²⁺ Channel Blockers Increase Cytosolic [Ca ²⁺] by Activating Ca ²⁺ -sensing Receptors in Pulmonary Arterial Smooth Muscle Cells. Circulation Research, 2013, 112, 640-650.	4.5	42
15	Orai1â€“Orai2 complex is involved in store-operated calcium entry in chondrocyte cell lines. Cell Calcium, 2015, 57, 337-347.	2.4	41
16	Two-step Ca2+ intracellular release underlies excitation-contraction coupling in mouse urinary bladder myocytes. American Journal of Physiology - Cell Physiology, 2006, 290, C388-C403.	4.6	40
17	Molecular assembly and dynamics of fluorescent protein-tagged single K_{Ca}1.1 channel in expression system and vascular smooth muscle cells. American Journal of Physiology - Cell Physiology, 2012, 302, C1257-C1268.	4.6	37
18	Upregulation of K_{Ca}3.1 K⁺ channel in mesenteric lymph node CD4⁺ T lymphocytes from a mouse model of dextran sodium sulfate-induced inflammatory bowel disease. American Journal of Physiology - Renal Physiology, 2014, 306, G873-G885.	3.4	32

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19	BK channel activation by NS-1619 is partially mediated by intracellular Ca2+ release in smooth muscle cells of porcine coronary artery. British Journal of Pharmacology, 2001, 132, 828-834.	5.4	31
20	The ClC-7 Chloride Channel Is Downregulated by Hypoosmotic Stress in Human Chondrocytes. Molecular Pharmacology, 2015, 88, 113-120.	2.3	29
21	A junctophilin-caveolin interaction enables efficient coupling between ryanodine receptors and BKCa channels in the Ca2+ microdomain of vascular smooth muscle. Journal of Biological Chemistry, 2019, 294, 13093-13105.	3.4	29
22	Contribution of Chloride Channel Conductance to the Regulation of Resting Membrane Potential in Chondrocytes. Journal of Pharmacological Sciences, 2010, 113, 94-99.	2.5	27
23	Regulation of store-operated Ca2+ entry activity by cell cycle dependent up-regulation of Orai2 in brain capillary endothelial cells. Biochemical and Biophysical Research Communications, 2015, 459, 457-462.	2.1	26
24	TMEM16A and TMEM16B channel proteins generate Ca2+-activated Clâ^' current and regulate melatonin secretion in rat pineal glands. Journal of Biological Chemistry, 2018, 293, 995-1006.	3.4	26
25	The multiple expression of Ca2+-activated Clâ^' channels via homo- and hetero-dimer formation of TMEM16A splicing variants in murine portal vein. Biochemical and Biophysical Research Communications, 2014, 443, 518-523.	2.1	25
26	MicroRNA-mediated downregulation of K⁺ channels in pulmonary arterial hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L10-L26.	2.9	25
27	Expression analysis of the epithelial Na+ channel Î´ subunit in human melanoma G-361 cells. Biochemical and Biophysical Research Communications, 2008, 366, 489-492.	2.1	23
28	A New Splice Variant of Large Conductance Ca2+-activated K+ (BK) Channel Î± Subunit Alters Human Chondrocyte Function. Journal of Biological Chemistry, 2016, 291, 24247-24260.	3.4	22
29	New light on ion channel imaging by total internal reflection fluorescence (TIRF) microscopy. Journal of Pharmacological Sciences, 2015, 128, 1-7.	2.5	20
30	Comparative study of the molecular and functional expression of L-type Ca2+ channels and large-conductance, Ca2+-activated K+ channels in rabbit aorta and vas deferens smooth muscle. Pflugers Archiv European Journal of Physiology, 2001, 441, 611-620.	2.8	19
31	Icilin Activates the Î´-Subunit of the Human Epithelial Na⁺ Channel. Molecular Pharmacology, 2005, 68, 1142-1147.	2.3	19
32	A novel spliced variant of the epithelial Na+ channel Î´-subunit in the human brain. Biochemical and Biophysical Research Communications, 2006, 349, 317-321.	2.1	19
33	Epithelial Na+ channel Î´ subunit mediates acid-induced ATP release in the human skin. Biochemical and Biophysical Research Communications, 2008, 373, 155-158.	2.1	19
34	Hypoxic stress up-regulates Kir2.1 expression and facilitates cell proliferation in brain capillary endothelial cells. Biochemical and Biophysical Research Communications, 2016, 476, 386-392.	2.1	19
35	Tadalafil induces antiproliferation, apoptosis, and phosphodiesterase type 5 downregulation in idiopathic pulmonary arterial hypertension in vitro. European Journal of Pharmacology, 2017, 810, 44-50.	3.5	19
36	Evans Blue Is a Specific Antagonist of the Human Epithelial Na+ Channel Î´-Subunit. Journal of Pharmacology and Experimental Therapeutics, 2005, 315, 965-969.	2.5	18

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37	Overactive bladder mediated by accelerated Ca²⁺influx mode of Na⁺/Ca²⁺exchanger in smooth muscle. American Journal of Physiology - Cell Physiology, 2013, 305, C299-C308.	4.6	18
38	Up-regulation of Kir2.1 by ER stress facilitates cell death of brain capillary endothelial cells. Biochemical and Biophysical Research Communications, 2011, 411, 293-298.	2.1	17
39	Physiological and Pathological Functions of Cl^{â^'} Channels in Chondrocytes. Biological and Pharmaceutical Bulletin, 2018, 41, 1145-1151.	1.4	17
40	Epithelial Na+ channel Î´ subunit is an acid sensor in the human oesophagus. European Journal of Pharmacology, 2008, 600, 32-36.	3.5	16
41	K+ and Ca2+ Channels Regulate Ca2+ Signaling in Chondrocytes: An Illustrated Review. Cells, 2020, 9, 1577.	4.1	16
42	Molecular mechanisms underlying pimaric acid-induced modulation of voltage-gated K+ channels. Journal of Pharmacological Sciences, 2017, 133, 223-231.	2.5	15
43	Heterodimerization of two pore domain K+ channel TASK1 and TALK2 in living heterologous expression systems. PLoS ONE, 2017, 12, e0186252.	2.5	15
44	TMEM16A Ca²⁺-Activated Cl⁻ Channel Regulates the Proliferation and Migration of Brain Capillary Endothelial Cells. Molecular Pharmacology, 2020, 98, 61-71.	2.3	15
45	A molecular complex of Ca _v 1.2/CaMKK2/CaMK1a in caveolae is responsible for vascular remodeling via excitationâ€“transcription coupling. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117435119.	7.1	15
46	Methyl-Î²-cyclodextrin Prevents Ca2+-Induced Ca2+ Release in Smooth Muscle Cells of Mouse Urinary Bladder. Journal of Pharmacological Sciences, 2007, 103, 121-126.	2.5	14
47	Spontaneous and nicotine-induced Ca²⁺ oscillations mediated by Ca²⁺ influx in rat pinealocytes. American Journal of Physiology - Cell Physiology, 2014, 306, C1008-C1016.	4.6	14
48	Novel Spliced Variants of Large-Conductance Ca2+-Activated K+-Channel Î²2-Subunit in Human and Rodent Pancreas. Journal of Pharmacological Sciences, 2010, 114, 198-205.	2.5	13
49	Direct molecular interaction of caveolin-3 with KCa1.1 channel in living HEK293 cell expression system. Biochemical and Biophysical Research Communications, 2013, 430, 1169-1174.	2.1	13
50	Mechanisms Underlying the Activation of Large Conductance Ca2+-Activated K+ Channels by Nordihydroguaiaretic Acid. The Japanese Journal of Pharmacology, 2002, 89, 53-63.	1.2	12
51	Modulation of TMEM16A-Channel Activity as Ca2+ Activated Clâ^' Conductance via the Interaction With Actin Cytoskeleton in Murine Portal Vein. Journal of Pharmacological Sciences, 2014, 125, 107-111.	2.5	12
52	Ryanodine receptor type 3 does not contribute to contractions in the mouse myometrium regardless of pregnancy. Pflugers Archiv European Journal of Physiology, 2017, 469, 313-326.	2.8	12
53	Membrane Hyperpolarization Induced by Endoplasmic Reticulum Stress Facilitates Ca2+ Influx to Regulate Cell Cycle Progression in Brain Capillary Endothelial Cells. Journal of Pharmacological Sciences, 2014, 125, 227-232.	2.5	11
54	Involvement of Inositol 1,4,5-Trisphosphate Formation in the Voltage-Dependent Regulation of the Ca²⁺Concentration in Porcine Coronary Arterial Smooth Muscle Cells. Journal of Pharmacology and Experimental Therapeutics, 2012, 342, 486-496.	2.5	10

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55	Total internal reflection fluorescence imaging of Ca2+-induced Ca2+ release in mouse urinary bladder smooth muscle cells. Biochemical and Biophysical Research Communications, 2012, 427, 54-59.	2.1	10
56	Modulation of Ca²⁺oscillation and melatonin secretion by BK_{Ca}channel activity in rat pinealocytes. American Journal of Physiology - Cell Physiology, 2016, 310, C740-C747.	4.6	10
57	Negative regulation of cellular Ca2+ mobilization by ryanodine receptor type 3 in mouse mesenteric artery smooth muscle. American Journal of Physiology - Cell Physiology, 2018, 315, C1-C9.	4.6	10
58	Hypoxic stress upregulates K_{ir}2.1 expression by a pathway including hypoxic-inducible factor-1Î± and dynamin2 in brain capillary endothelial cells. American Journal of Physiology - Cell Physiology, 2018, 315, C202-C213.	4.6	10
59	Conversion of Ca2+ oscillation into propagative electrical signals by Ca2+-activated ion channels and connexin as a reconstituted Ca2+ clock model for the pacemaker activity. Biochemical and Biophysical Research Communications, 2019, 510, 242-247.	2.1	9
60	Oxidative stress facilitates cell death by inhibiting Orai1-mediated Ca2+ entry in brain capillary endothelial cells. Biochemical and Biophysical Research Communications, 2020, 523, 153-158.	2.1	9
61	Involvement of the Î³1 subunit of the large-conductance Ca2+-activated K+ channel in the proliferation of human somatostatinoma cells. Biochemical and Biophysical Research Communications, 2020, 525, 1032-1037.	2.1	9
62	Comparative analysis of age in monocrotaline-induced pulmonary hypertensive rats. Journal of Pharmacological Sciences, 2021, 147, 81-85.	2.5	9
63	Hypoxia increases the proliferation of brain capillary endothelial cells via upregulation of TMEM16A Ca2+-activated Clâ¯ channels. Journal of Pharmacological Sciences, 2021, 146, 65-69.	2.5	8
64	Local Ca²⁺ coupling between mitochondria and sarcoplasmic reticulum following depolarization in guinea pig urinary bladder smooth muscle cells. American Journal of Physiology - Cell Physiology, 2018, 314, C88-C98.	4.6	7
65	Roles of LRRC26 as an auxiliary Î³1-subunit of large-conductance Ca²⁺-activated K⁺ channels in bronchial smooth muscle cells. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L366-L375.	2.9	7
66	Swelling-activated ClC-3 activity regulates prostaglandin E2 release in human OUMS-27 chondrocytes. Biochemical and Biophysical Research Communications, 2021, 537, 29-35.	2.1	7
67	Regulation of Ryanodine Receptorâ€“Mediated Ca2+ Release in Vas Deferens Smooth Muscle Cells. Journal of Pharmacological Sciences, 2009, 110, 78-86.	2.5	5
68	Dynamic erectile responses of a novel penile organ model utilizing TPEMâ€. Biology of Reproduction, 2021, 104, 875-886.	2.7	5
69	Involvement of TREK1 channels in the proliferation of human hepatic stellate LX-2 cells. Journal of Pharmacological Sciences, 2022, 148, 286-294.	2.5	5
70	Rapid Na+ accumulation by a sustained action potential impairs mitochondria function and induces apoptosis in HEK293â€cells expressing non-inactivating Na+ channels. Biochemical and Biophysical Research Communications, 2019, 513, 269-274.	2.1	4
71	Single Molecule Fluorescence Imaging Reveals the Stoichiometry of BKÎ³1 Subunit in Living HEK293 Cell Expression System. Biological and Pharmaceutical Bulletin, 2020, 43, 1118-1122.	1.4	4
72	Downregulation of Ca2+-Activated Clâ¯ Channel TMEM16A Mediated by Angiotensin II in Cirrhotic Portal Hypertensive Mice. Frontiers in Pharmacology, 2022, 13, 831311.	3.5	4

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73	Up-Regulation of the Voltage-Gated K_V2.1 K⁺ Channel in the Renal Arterial Myocytes of Dahl Salt-Sensitive Hypertensive Rats. Biological and Pharmaceutical Bulletin, 2017, 40, 1468-1474.	1.4	3
74	Calcium-Sensing Receptor Is Functionally Expressed in the Cochlear Perilymphatic Compartment and Essential for Hearing. Frontiers in Molecular Neuroscience, 2019, 12, 175.	2.9	3
75	SKF96365 activates calcium-sensing receptors in pulmonary arterial smooth muscle cells. Biochemical and Biophysical Research Communications, 2022, 607, 44-48.	2.1	3
76	Mitofusin 2 positively regulates Ca²⁺ signaling by tethering the sarcoplasmic reticulum and mitochondria in rat aortic smooth muscle cells. American Journal of Physiology - Cell Physiology, 2022, 323, C295-C305.	4.6	3
77	Development of a Novel Cell-Based Assay System for High-Throughput Screening of Compounds Acting on Background Two-Pore Domain K+ Channels. SLAS Discovery, 2019, 24, 641-652.	2.7	2
78	miRNAâ€29b Directly Downregulates K + Channel Expression and Function in IPAHâ€PASMC. FASEB Journal, 2015, 29, 662.16.	0.5	2
79	Ca²⁺ Signaling and Proliferation <i>via</i> Ca²⁺-Sensing Receptors in Human Hepatic Stellate LX-2 Cells. Biological and Pharmaceutical Bulletin, 2022, 45, 664-667.	1.4	2
80	Synchronized simulation with heart. Focus on â€œSimulation of the effects of moderate stimulation/inhibition of the Î²₁-adrenergic signaling system and its components in mouse ventricular myocytesâ€. American Journal of Physiology - Cell Physiology, 2016, 310, C841-C843.	4.6	1
81	Involvement of small-conductance Ca2+-activated K+ (SKCa2) channels in spontaneous Ca2+ oscillations in rat pinealocytes. Biochemical and Biophysical Research Communications, 2022, 615, 157-162.	2.1	1
82	Downregulation of Ca²⁺-activated Cl⁻ channel TMEM16A in cirrhotic portal hypertension. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, SY57-4.	0.0	0
83	Unique functions of ryanodine type3 in vascular and myometrial smooth muscles. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, OR26-3.	0.0	0
84	Heterodimerization of two pore domain K+ channel TASK1 and TALK2 in HEK293 heterologous expression systems. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO4-7-17.	0.0	0
85	HIF-1Î±-dynamin2-Kir2.1 pathway contributes to cell proliferation in brain capillary endothelial cells under hypoxic stress. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO1-2-25.	0.0	0
86	Functional molecular complexes of junctophilin-2 and caveolin-1 provide a structural/functional basis for Ca²⁺-microdomain formation in vascular smooth muscle cells. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO3-3-55.	0.0	0
87	LRRC26 is functional as an Auxiliary Subunit of Largeâ€Conductance Ca 2+ â€Activated K + (BK) Channel and regulates BK channel activity in Bronchial Smooth Muscle Cells. FASEB Journal, 2018, 32, 567.8.	0.5	0
88	Identification of a new splice variant of largeâ€conductance Ca 2+ â€activated K + (BK) channel Î± subunit from human chondrocyte. FASEB Journal, 2018, 32, 750.27.	0.5	0
89	Functional molecular complexes of junctophilinâ€2 and caveolinâ€1 provide a structural/functional basis for Ca²⁺â€microdomain formation between BK_{Ca} channels and RyRs in vascular smooth muscle cells. FASEB Journal, 2018, 32, 581.10.	0.5	0