

# Hisao Yamamura

## List of Publications by Year in descending order

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89  
papers

2,123  
citations

257450

24  
h-index

265206

42  
g-index

92  
all docs

92  
docs citations

92  
times ranked

2453  
citing authors

#	ARTICLE	IF	CITATIONS
1	Involvement of TREK1 channels in the proliferation of human hepatic stellate LX-2 cells. <i>Journal of Pharmacological Sciences</i> , 2022, 148, 286-294.	2.5	5
2	Downregulation of Ca <sup>2+</sup> -Activated Cl <sup>-</sup> Channel TMEM16A Mediated by Angiotensin II in Cirrhotic Portal Hypertensive Mice. <i>Frontiers in Pharmacology</i> , 2022, 13, 831311.	3.5	4
3	SKF96365 activates calcium-sensing receptors in pulmonary arterial smooth muscle cells. <i>Biochemical and Biophysical Research Communications</i> , 2022, 607, 44-48.	2.1	3
4	A molecular complex of Ca <sup>v</sup> 1.2/CaMKK2/CaMK1a in caveolae is responsible for vascular remodeling via excitation-transcription coupling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117435119.	7.1	15
5	Ca <sup>2+</sup> Signaling and Proliferation via Ca <sup>2+</sup> -Sensing Receptors in Human Hepatic Stellate LX-2 Cells. <i>Biological and Pharmaceutical Bulletin</i> , 2022, 45, 664-667.	1.4	2
6	Involvement of small-conductance Ca <sup>2+</sup> -activated K <sup>+</sup> (SKCa <sub>2</sub> ) channels in spontaneous Ca <sup>2+</sup> oscillations in rat pinealocytes. <i>Biochemical and Biophysical Research Communications</i> , 2022, 615, 157-162.	2.1	1
7	Mitofusin 2 positively regulates Ca <sup>2+</sup> signaling by tethering the sarcoplasmic reticulum and mitochondria in rat aortic smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 323, C295-C305.	4.6	3
8	Dynamic erectile responses of a novel penile organ model utilizing TPME. <i>Biology of Reproduction</i> , 2021, 104, 875-886.	2.7	5
9	Swelling-activated CIC-3 activity regulates prostaglandin E <sub>2</sub> release in human OUMS-27 chondrocytes. <i>Biochemical and Biophysical Research Communications</i> , 2021, 537, 29-35.	2.1	7
10	Hypoxia increases the proliferation of brain capillary endothelial cells via upregulation of TMEM16A Ca <sup>2+</sup> -activated Cl <sup>-</sup> channels. <i>Journal of Pharmacological Sciences</i> , 2021, 146, 65-69.	2.5	8
11	Comparative analysis of age in monocrotaline-induced pulmonary hypertensive rats. <i>Journal of Pharmacological Sciences</i> , 2021, 147, 81-85.	2.5	9
12	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
13	Oxidative stress facilitates cell death by inhibiting Orai1-mediated Ca <sup>2+</sup> entry in brain capillary endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2020, 523, 153-158.	2.1	9
14	Roles of LRRC26 as an auxiliary $\beta$ 1-subunit of large-conductance Ca <sup>2+</sup> -activated K <sup>+</sup> channels in bronchial smooth muscle cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L366-L375.	2.9	7
15	TMEM16A Ca <sup>2+</sup> -Activated Cl <sup>-</sup> Channel Regulates the Proliferation and Migration of Brain Capillary Endothelial Cells. <i>Molecular Pharmacology</i> , 2020, 98, 61-71.	2.3	15
16	Involvement of the $\beta$ 1 subunit of the large-conductance Ca <sup>2+</sup> -activated K <sup>+</sup> channel in the proliferation of human somatostatinoma cells. <i>Biochemical and Biophysical Research Communications</i> , 2020, 525, 1032-1037.	2.1	9
17	K <sup>+</sup> and Ca <sup>2+</sup> Channels Regulate Ca <sup>2+</sup> Signaling in Chondrocytes: An Illustrated Review. <i>Cells</i> , 2020, 9, 1577.	4.1	16
18	Single Molecule Fluorescence Imaging Reveals the Stoichiometry of BK $\beta$ 1 Subunit in Living HEK293 Cell Expression System. <i>Biological and Pharmaceutical Bulletin</i> , 2020, 43, 1118-1122.	1.4	4

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19	A junctophilin-caveolin interaction enables efficient coupling between ryanodine receptors and BKCa channels in the Ca <sup>2+</sup> microdomain of vascular smooth muscle. <i>Journal of Biological Chemistry</i> , 2019, 294, 13093-13105.	3.4	29
20	Calcium-Sensing Receptor Is Functionally Expressed in the Cochlear Perilymphatic Compartment and Essential for Hearing. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 175.	2.9	3
21	Conversion of Ca <sup>2+</sup> oscillation into propagative electrical signals by Ca <sup>2+</sup> -activated ion channels and connexin as a reconstituted Ca <sup>2+</sup> clock model for the pacemaker activity. <i>Biochemical and Biophysical Research Communications</i> , 2019, 510, 242-247.	2.1	9
22	Development of a Novel Cell-Based Assay System for High-Throughput Screening of Compounds Acting on Background Two-Pore Domain K <sup>+</sup> Channels. <i>SLAS Discovery</i> , 2019, 24, 641-652.	2.7	2
23	Rapid Na <sup>+</sup> accumulation by a sustained action potential impairs mitochondria function and induces apoptosis in HEK293 cells expressing non-inactivating Na <sup>+</sup> channels. <i>Biochemical and Biophysical Research Communications</i> , 2019, 513, 269-274.	2.1	4
24	Local Ca <sup>2+</sup> coupling between mitochondria and sarcoplasmic reticulum following depolarization in guinea pig urinary bladder smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 314, C88-C98.	4.6	7
25	TMEM16A and TMEM16B channel proteins generate Ca <sup>2+</sup> -activated Cl <sup>-</sup> current and regulate melatonin secretion in rat pineal glands. <i>Journal of Biological Chemistry</i> , 2018, 293, 995-1006.	3.4	26
26	Physiological and Pathological Functions of Cl <sup>-</sup> Channels in Chondrocytes. <i>Biological and Pharmaceutical Bulletin</i> , 2018, 41, 1145-1151.	1.4	17
27	Negative regulation of cellular Ca <sup>2+</sup> mobilization by ryanodine receptor type 3 in mouse mesenteric artery smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 315, C1-C9.	4.6	10
28	Hypoxic stress upregulates K <sub>ir</sub> 2.1 expression by a pathway including hypoxic-inducible factor-1 $\beta$ and dynamin2 in brain capillary endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 315, C202-C213.	4.6	10
29	Downregulation of Ca <sup>2+</sup> -activated Cl <sup>-</sup> channel TMEM16A in cirrhotic portal hypertension. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, SY57-4.	0.0	0
30	Unique functions of ryanodine type3 in vascular and myometrial smooth muscles. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, OR26-3.	0.0	0
31	Heterodimerization of two pore domain K <sup>+</sup> channel TASK1 and TALK2 in HEK293 heterologous expression systems. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO4-7-17.	0.0	0
32	HIF-1 $\beta$ -dynamin2-Kir2.1 pathway contributes to cell proliferation in brain capillary endothelial cells under hypoxic stress. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO1-2-25.	0.0	0
33	Functional molecular complexes of junctophilin-2 and caveolin-1 provide a structural/functional basis for Ca <sup>2+</sup> -microdomain formation in vascular smooth muscle cells. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO3-3-55.	0.0	0
34	LRRC26 is functional as an Auxiliary Subunit of Large-Conductance Ca <sup>2+</sup> -Activated K <sup>+</sup> (BK) Channel and regulates BK channel activity in Bronchial Smooth Muscle Cells. <i>FASEB Journal</i> , 2018, 32, 567.8.	0.5	0
35	Identification of a new splice variant of large-conductance Ca <sup>2+</sup> -activated K <sup>+</sup> (BK) channel $\beta$ subunit from human chondrocyte. <i>FASEB Journal</i> , 2018, 32, 750.27.	0.5	0
36	Functional molecular complexes of junctophilin $\beta$ 2 and caveolin $\beta$ 1 provide a structural/functional basis for Ca <sup>2+</sup> -microdomain formation between BK channels and RyRs in vascular smooth muscle cells. <i>FASEB Journal</i> , 2018, 32, 581.10.	0.5	0

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37	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
38	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
39	Molecular mechanisms underlying pimelic acid-induced modulation of voltage-gated K <sup>+</sup> channels. Journal of Pharmacological Sciences, 2017, 133, 223-231.	2.5	15
40	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
41	Up-Regulation of the Voltage-Gated K <sub>V</sub> 2.1 K <sup>+</sup> Channel in the Renal Arterial Myocytes of Dahl Salt-Sensitive Hypertensive Rats. Biological and Pharmaceutical Bulletin, 2017, 40, 1468-1474.	1.4	3
42	Heterodimerization of two pore domain K <sup>+</sup> channel TASK1 and TALK2 in living heterologous expression systems. PLoS ONE, 2017, 12, e0186252.	2.5	15
43	<i>Synchronized simulation with heart</i> . Focus on "Simulation of the effects of moderate stimulation/inhibition of the $\beta_1$ -adrenergic signaling system and its components in mouse ventricular myocytes". American Journal of Physiology - Cell Physiology, 2016, 310, C841-C843.	4.6	1
44	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
45	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
46	Modulation of Ca <sup>2+</sup> oscillation and melatonin secretion by BK <sub>Ca</sub> channel activity in rat pinealocytes. American Journal of Physiology - Cell Physiology, 2016, 310, C740-C747.	4.6	10
47	A New Splice Variant of Large Conductance Ca <sup>2+</sup> -activated K <sup>+</sup> (BK) Channel $\beta$ Subunit Alters Human Chondrocyte Function. Journal of Biological Chemistry, 2016, 291, 24247-24260.	3.4	22
48	Orai1/Orai2 complex is involved in store-operated calcium entry in chondrocyte cell lines. Cell Calcium, 2015, 57, 337-347.	2.4	41
49	Regulation of store-operated Ca <sup>2+</sup> 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
50	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
51	The ClC-7 Chloride Channel Is Downregulated by Hypoosmotic Stress in Human Chondrocytes. Molecular Pharmacology, 2015, 88, 113-120.	2.3	29
52	New light on ion channel imaging by total internal reflection fluorescence (TIRF) microscopy. Journal of Pharmacological Sciences, 2015, 128, 1-7.	2.5	20
53	miRNA-29b Directly Downregulates K <sup>+</sup> Channel Expression and Function in IPAH-PASMC. FASEB Journal, 2015, 29, 662.16.	0.5	2
54	Membrane Hyperpolarization Induced by Endoplasmic Reticulum Stress Facilitates Ca <sup>2+</sup> Influx to Regulate Cell Cycle Progression in Brain Capillary Endothelial Cells. Journal of Pharmacological Sciences, 2014, 125, 227-232.	2.5	11

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55	Spontaneous and nicotine-induced Ca <sup>2+</sup> oscillations mediated by Ca <sup>2+</sup> influx in rat pinealocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 306, C1008-C1016.	4.6	14
56	Upregulation of K <sub>Ca</sub> 3.1 K <sup>+</sup> channel in mesenteric lymph node CD4 <sup>+</sup> T lymphocytes from a mouse model of dextran sodium sulfate-induced inflammatory bowel disease. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 306, G873-G885.	3.4	32
57	The multiple expression of Ca <sup>2+</sup> -activated Cl <sup>-</sup> channels via homo- and hetero-dimer formation of TMEM16A splicing variants in murine portal vein. <i>Biochemical and Biophysical Research Communications</i> , 2014, 443, 518-523.	2.1	25
58	Modulation of TMEM16A-Channel Activity as Ca <sup>2+</sup> Activated Cl <sup>-</sup> Conductance via the Interaction With Actin Cytoskeleton in Murine Portal Vein. <i>Journal of Pharmacological Sciences</i> , 2014, 125, 107-111.	2.5	12
59	Caveolin-1 Facilitates the Direct Coupling between Large Conductance Ca <sup>2+</sup> -activated K <sup>+</sup> (BKCa) and Cav1.2 Ca <sup>2+</sup> Channels and Their Clustering to Regulate Membrane Excitability in Vascular Myocytes. <i>Journal of Biological Chemistry</i> , 2013, 288, 36750-36761.	3.4	55
60	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. <i>Circulation Research</i> , 2013, 112, 640-650.	4.5	42
61	Direct molecular interaction of caveolin-3 with KCa1.1 channel in living HEK293 cell expression system. <i>Biochemical and Biophysical Research Communications</i> , 2013, 430, 1169-1174.	2.1	13
62	Overactive bladder mediated by accelerated Ca <sup>2+</sup> influx mode of Na <sup>+</sup> /Ca <sup>2+</sup> exchanger in smooth muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C299-C308.	4.6	18
63	Molecular assembly and dynamics of fluorescent protein-tagged single K <sub>Ca</sub> 1.1 channel in expression system and vascular smooth muscle cells. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C1257-C1268.	4.6	37
64	Involvement of Inositol 1,4,5-Trisphosphate Formation in the Voltage-Dependent Regulation of the Ca <sup>2+</sup> Concentration in Porcine Coronary Arterial Smooth Muscle Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012, 342, 486-496.	2.5	10
65	Enhanced Ca <sup>2+</sup> -Sensing Receptor Function in Idiopathic Pulmonary Arterial Hypertension. <i>Circulation Research</i> , 2012, 111, 469-481.	4.5	105
66	Total internal reflection fluorescence imaging of Ca <sup>2+</sup> -induced Ca <sup>2+</sup> release in mouse urinary bladder smooth muscle cells. <i>Biochemical and Biophysical Research Communications</i> , 2012, 427, 54-59.	2.1	10
67	TRIC-A Channels in Vascular Smooth Muscle Contribute to Blood Pressure Maintenance. <i>Cell Metabolism</i> , 2011, 14, 231-241.	16.2	64
68	Up-regulation of Kir2.1 by ER stress facilitates cell death of brain capillary endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2011, 411, 293-298.	2.1	17
69	Contribution of K <sub>ir</sub> 2 potassium channels to ATP-induced cell death in brain capillary endothelial cells and reconstructed HEK293 cell model. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 300, C75-C86.	4.6	46
70	Contribution of Chloride Channel Conductance to the Regulation of Resting Membrane Potential in Chondrocytes. <i>Journal of Pharmacological Sciences</i> , 2010, 113, 94-99.	2.5	27
71	Novel Spliced Variants of Large-Conductance Ca <sup>2+</sup> -Activated K <sup>+</sup> -Channel $\beta$ 2-Subunit in Human and Rodent Pancreas. <i>Journal of Pharmacological Sciences</i> , 2010, 114, 198-205.	2.5	13
72	Accelerated Ca <sup>2+</sup> entry by membrane hyperpolarization due to Ca <sup>2+</sup> -activated K <sup>+</sup> channel activation in response to histamine in chondrocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 298, C786-C797.	4.6	47

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73	Regulation of Ryanodine Receptor-Mediated Ca <sup>2+</sup> Release in Vas Deferens Smooth Muscle Cells. <i>Journal of Pharmacological Sciences</i> , 2009, 110, 78-86.	2.5	5
74	Epithelial Na <sup>+</sup> channel $\beta$ -subunit is an acid sensor in the human oesophagus. <i>European Journal of Pharmacology</i> , 2008, 600, 32-36.	3.5	16
75	Expression analysis of the epithelial Na <sup>+</sup> channel $\beta$ -subunit in human melanoma G-361 cells. <i>Biochemical and Biophysical Research Communications</i> , 2008, 366, 489-492.	2.1	23
76	Epithelial Na <sup>+</sup> channel $\beta$ -subunit mediates acid-induced ATP release in the human skin. <i>Biochemical and Biophysical Research Communications</i> , 2008, 373, 155-158.	2.1	19
77	TRPM8 activation suppresses cellular viability in human melanoma. <i>American Journal of Physiology - Cell Physiology</i> , 2008, 295, C296-C301.	4.6	117
78	Methyl- $\beta$ -cyclodextrin Prevents Ca <sup>2+</sup> -Induced Ca <sup>2+</sup> Release in Smooth Muscle Cells of Mouse Urinary Bladder. <i>Journal of Pharmacological Sciences</i> , 2007, 103, 121-126.	2.5	14
79	A novel spliced variant of the epithelial Na <sup>+</sup> channel $\beta$ -subunit in the human brain. <i>Biochemical and Biophysical Research Communications</i> , 2006, 349, 317-321.	2.1	19
80	Two-step Ca <sup>2+</sup> intracellular release underlies excitation-contraction coupling in mouse urinary bladder myocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C388-C403.	4.6	40
81	Icilin Activates the $\beta$ -Subunit of the Human Epithelial Na <sup>+</sup> Channel. <i>Molecular Pharmacology</i> , 2005, 68, 1142-1147.	2.3	19
82	Evans Blue Is a Specific Antagonist of the Human Epithelial Na <sup>+</sup> Channel $\beta$ -Subunit. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 315, 965-969.	2.5	18
83	Capsazepine Is a Novel Activator of the $\beta$ -Subunit of the Human Epithelial Na <sup>+</sup> Channel. <i>Journal of Biological Chemistry</i> , 2004, 279, 44483-44489.	3.4	45
84	Protons Activate the $\beta$ -Subunit of the Epithelial Na <sup>+</sup> Channel in Humans. <i>Journal of Biological Chemistry</i> , 2004, 279, 12529-12534.	3.4	66
85	Mechanisms Underlying the Activation of Large Conductance Ca <sup>2+</sup> -Activated K <sup>+</sup> Channels by Nordihydroguaiaretic Acid. <i>The Japanese Journal of Pharmacology</i> , 2002, 89, 53-63.	1.2	12
86	Comparative study of the molecular and functional expression of L-type Ca <sup>2+</sup> channels and large-conductance, Ca <sup>2+</sup> -activated K <sup>+</sup> channels in rabbit aorta and vas deferens smooth muscle. <i>Pflügers Archiv European Journal of Physiology</i> , 2001, 441, 611-620.	2.8	19
87	BK channel activation by NS-1619 is partially mediated by intracellular Ca <sup>2+</sup> release in smooth muscle cells of porcine coronary artery. <i>British Journal of Pharmacology</i> , 2001, 132, 828-834.	5.4	31
88	Local Ca <sup>2+</sup> transients and distribution of BK channels and ryanodine receptors in smooth muscle cells of guinea-pig vas deferens and urinary bladder. <i>Journal of Physiology</i> , 2001, 534, 313-326.	2.9	97
89	Ca <sup>2+</sup> images and K <sup>+</sup> current during depolarization in smooth muscle cells of the guinea-pig vas deferens and urinary bladder. <i>Journal of Physiology</i> , 1998, 510, 705-719.	2.9	116