

# Yasuo Mori

## List of Publications by Citations

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103  
papers

2,471  
citations

27  
h-index

47  
g-index

113  
ext. papers

3,102  
ext. citations

6.9  
avg, IF

4.91  
L-index

#	Paper	IF	Citations
103	Calcium channel beta-subunit binds to a conserved motif in the I-II cytoplasmic linker of the alpha 1-subunit. <i>Nature</i> , <b>1994</b> , 368, 67-70	50.4	582
102	Cancer Cells Co-opt the Neuronal Redox-Sensing Channel TRPA1 to Promote Oxidative-Stress Tolerance. <i>Cancer Cell</i> , <b>2018</b> , 33, 985-1003.e7	24.3	113
101	The Transient Receptor Potential Melastatin 2 (TRPM2) Channel Contributes to $\beta$ -Amyloid Oligomer-Related Neurotoxicity and Memory Impairment. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 15157-69	6.6	82
100	Cell surface flip-flop of phosphatidylserine is critical for PIEZO1-mediated myotube formation. <i>Nature Communications</i> , <b>2018</b> , 9, 2049	17.4	74
99	Tetrameric Orai1 is a teardrop-shaped molecule with a long, tapered cytoplasmic domain. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 13676-13685	5.4	71
98	TRPV4 channel activity is modulated by direct interaction of the ankyrin domain to PI(4,5)P <sub>2</sub> <i>Nature Communications</i> , <b>2014</b> , 5, 4994	17.4	69
97	Thermosensitive Ion Channel Activation in Single Neuronal Cells by Using Surface-Engineered Plasmonic Nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 11725-9	16.4	67
96	TRPM2 Mediates Neutrophil Killing of Disseminated Tumor Cells. <i>Cancer Research</i> , <b>2018</b> , 78, 2680-2690	10.1	62
95	Sensing of redox status by TRP channels. <i>Cell Calcium</i> , <b>2016</b> , 60, 115-22	4	61
94	Cold sensitivity of TRPA1 is unveiled by the prolyl hydroxylation blockade-induced sensitization to ROS. <i>Nature Communications</i> , <b>2016</b> , 7, 12840	17.4	59
93	Validating subcellular thermal changes revealed by fluorescent thermosensors. <i>Nature Methods</i> , <b>2015</b> , 12, 801-2	21.6	57
92	TRPC3 positively regulates reactive oxygen species driving maladaptive cardiac remodeling. <i>Scientific Reports</i> , <b>2016</b> , 6, 37001	4.9	57
91	Decreased Brain pH as a Shared Endophenotype of Psychiatric Disorders. <i>Neuropsychopharmacology</i> , <b>2018</b> , 43, 459-468	8.7	54
90	TRPM2 Channel Aggravates CNS Inflammation and Cognitive Impairment via Activation of Microglia in Chronic Cerebral Hypoperfusion. <i>Journal of Neuroscience</i> , <b>2018</b> , 38, 3520-3533	6.6	52
89	Hypoxia-induced interaction of filamin with Drp1 causes mitochondrial hyperfission-associated myocardial senescence. <i>Science Signaling</i> , <b>2018</b> , 11,	8.8	50
88	TRPM2 contributes to LPS/IFN $\gamma$ -induced production of nitric oxide via the p38/JNK pathway in microglia. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 444, 212-7	3.4	45
87	TRPC3-GEF-H1 axis mediates pressure overload-induced cardiac fibrosis. <i>Scientific Reports</i> , <b>2016</b> , 6, 39387.9	4.9	43

86	Structure-activity relations of leucine derivatives reveal critical moieties for cellular uptake and activation of mTORC1-mediated signaling. <i>Amino Acids</i> , <b>2016</b> , 48, 1045-1058	3.5	38
85	Functional and Structural Divergence in Human TRPV1 Channel Subunits by Oxidative Cysteine Modification. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 4197-210	5.4	38
84	Transient receptor potential melastatin 2 channels (TRPM2) mediate neonatal hypoxic-ischemic brain injury in mice. <i>Experimental Neurology</i> , <b>2017</b> , 296, 32-40	5.7	36
83	Redox-sensitive transient receptor potential channels in oxygen sensing and adaptation. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2016</b> , 468, 85-97	4.6	35
82	TRPC3-Nox2 complex mediates doxorubicin-induced myocardial atrophy. <i>JCI Insight</i> , <b>2017</b> , 2,	9.9	33
81	Transient receptor potential (TRP) channels: Biosensors for redox environmental stimuli and cellular status. <i>Free Radical Biology and Medicine</i> , <b>2020</b> , 146, 36-44	7.8	32
80	Variants That Affect Function of Calcium Channel TRPV6 Are Associated With Early-Onset Chronic Pancreatitis. <i>Gastroenterology</i> , <b>2020</b> , 158, 1626-1641.e8	13.3	32
79	Fluorescent sensors reveal subcellular thermal changes. <i>Current Opinion in Biotechnology</i> , <b>2015</b> , 31, 57-64	11.4	30
78	Comprehensive behavioral analysis of voltage-gated calcium channel beta-anchoring and -regulatory protein knockout mice. <i>Frontiers in Behavioral Neuroscience</i> , <b>2015</b> , 9, 141	3.5	29
77	Involvement of TRPM2 in a wide range of inflammatory and neuropathic pain mouse models. <i>Journal of Pharmacological Sciences</i> , <b>2015</b> , 127, 237-43	3.7	27
76	Identification of MMP1 as a novel risk factor for intracranial aneurysms in ADPKD using iPSC models. <i>Scientific Reports</i> , <b>2016</b> , 6, 30013	4.9	26
75	Radiation inhibits salivary gland function by promoting STIM1 cleavage by caspase-3 and loss of SOCE through a TRPM2-dependent pathway. <i>Science Signaling</i> , <b>2017</b> , 10,	8.8	25
74	DNA Origami Scaffolds as Templates for Functional Tetrameric Kir3 K Channels. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 2586-2591	16.4	24
73	Hypoxia-induced sensitisation of TRPA1 in painful dysesthesia evoked by transient hindlimb ischemia/reperfusion in mice. <i>Scientific Reports</i> , <b>2016</b> , 6, 23261	4.9	24
72	Optical control of neuronal firing photoinduced electron transfer in donor-acceptor conjugates. <i>Chemical Science</i> , <b>2016</b> , 7, 3331-3337	9.4	20
71	Mast cell hyperactivity underpins the development of oxygen-induced retinopathy. <i>Journal of Clinical Investigation</i> , <b>2017</b> , 127, 3987-4000	15.9	20
70	Ryanodine receptor mutations (G4946E and I4790K) differentially responsible for diamide insecticide resistance in diamondback moth, <i>Plutella xylostella</i> L. <i>Insect Biochemistry and Molecular Biology</i> , <b>2020</b> , 118, 103308	4.5	20
69	TRPM2 channels in alveolar epithelial cells mediate bleomycin-induced lung inflammation. <i>Free Radical Biology and Medicine</i> , <b>2016</b> , 90, 101-13	7.8	19

68	Distinct Mechanism of Cysteine Oxidation-Dependent Activation and Cold Sensitization of Human Transient Receptor Potential Ankyrin 1 Channel by High and Low Oxaliplatin. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 878	4.6	19
67	Inhibitory effects of AG490 on H <sub>2</sub> O <sub>2</sub> -induced TRPM2-mediated Ca <sup>2+</sup> entry. <i>European Journal of Pharmacology</i> , <b>2014</b> , 742, 22-30	5.3	18
66	ELKS/Voltage-Dependent Ca Channel- $\alpha$ Subunit Module Regulates Polarized Ca Influx in Pancreatic $\beta$ Cells. <i>Cell Reports</i> , <b>2019</b> , 26, 1213-1226.e7	10.6	16
65	Inhibitory effects of Tyrphostin AG-related compounds on oxidative stress-sensitive transient receptor potential channel activation. <i>European Journal of Pharmacology</i> , <b>2016</b> , 786, 19-28	5.3	16
64	TRPM7 channels mediate spontaneous Ca fluctuations in growth plate chondrocytes that promote bone development. <i>Science Signaling</i> , <b>2019</b> , 12,	8.8	15
63	Dynamics of receptor-operated Ca <sup>2+</sup> currents through TRPC channels controlled via the PI(4,5)P <sub>2</sub> -PLC signaling pathway. <i>Frontiers in Pharmacology</i> , <b>2015</b> , 6, 22	5.6	15
62	Role of transient receptor potential melastatin 2 (TRPM2) channels in visceral nociception and hypersensitivity. <i>Experimental Neurology</i> , <b>2016</b> , 285, 41-50	5.7	15
61	TRPC6 regulates phenotypic switching of vascular smooth muscle cells through plasma membrane potential-dependent coupling with PTEN. <i>FASEB Journal</i> , <b>2019</b> , 33, 9785-9796	0.9	14
60	Identification of a prostaglandin D <sub>2</sub> metabolite as a neuritogenesis enhancer targeting the TRPV1 ion channel. <i>Scientific Reports</i> , <b>2016</b> , 6, 21261	4.9	14
59	TRPM2 Exacerbates Central Nervous System Inflammation in Experimental Autoimmune Encephalomyelitis by Increasing Production of CXCL2 Chemokines. <i>Journal of Neuroscience</i> , <b>2018</b> , 38, 8484-8495	6.6	14
58	TRP channels in oxygen physiology: distinctive functional properties and roles of TRPA1 in O <sub>2</sub> sensing. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , <b>2017</b> , 93, 464-482	4	13
57	Sensitization of H <sub>2</sub> O <sub>2</sub> -induced TRPM2 activation and subsequent interleukin-8 (CXCL8) production by intracellular Fe <sup>2+</sup> in human monocytic U937 cells. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2015</b> , 68, 119-27	5.6	12
56	O <sub>2</sub> -Dependent Protein Internalization Underlies Astrocytic Sensing of Acute Hypoxia by Restricting Multimodal TRPA1 Channel Responses. <i>Current Biology</i> , <b>2020</b> , 30, 3378-3396.e7	6.3	11
55	Down-regulation of the Wnt/ $\beta$ -catenin signaling pathway by Cacnb4. <i>Molecular Biology of the Cell</i> , <b>2017</b> , 28, 3699-3708	3.5	10
54	Strategy to Attain Remarkably High Photoinduced Charge-Separation Yield of Donor-Acceptor Linked Molecules in Biological Environment via Modulating Their Cationic Moieties. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 17457-17465	3.8	10
53	Pathophysiological Role of TRPM2 in Age-Related Cognitive Impairment in Mice. <i>Neuroscience</i> , <b>2019</b> , 408, 204-213	3.9	9
52	In vitro and in vivo characterization of modulation of the vacuolar cation channel TRPY1 from <i>Saccharomyces cerevisiae</i> . <i>FEBS Journal</i> , <b>2018</b> , 285, 1146-1161	5.7	9
51	Protective Effects of Duloxetine against Cerebral Ischemia-Reperfusion Injury via Transient Receptor Potential Melastatin 2 Inhibition. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2019</b> , 368, 246-254	4.7	9

50	Cnm4 deficiency suppresses Ca signaling and promotes cell proliferation in the colon epithelia. <i>Oncogene</i> , <b>2019</b> , 38, 3962-3969	9.2	8
49	Receptor signaling integration by TRP channelsomes. <i>Advances in Experimental Medicine and Biology</i> , <b>2011</b> , 704, 373-89	3.6	8
48	Deciphering Subtype-Selective Modulations in TRPA1 Biosensor Channels. <i>Current Neuropharmacology</i> , <b>2015</b> , 13, 266-78	7.6	8
47	"TRPV1 is a component of the atrial natriuretic signaling complex, and using orally delivered antagonists, presents a valid therapeutic target in the longitudinal reversal and treatment of cardiac hypertrophy and heart failure". <i>Channels</i> , <b>2019</b> , 13, 1-16	3	8
46	The $\beta$ subunit of the voltage-gated calcium channel (Cacnb4) regulates the rate of cell proliferation in Chinese Hamster Ovary cells. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2017</b> , 89, 57-70	5.6	7
45	Transient receptor potential channel M2 contributes to neointimal hyperplasia in vascular walls. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2015</b> , 1852, 1360-71	6.9	6
44	Rab3 interacting molecule 3 mutations associated with autism alter regulation of voltage-dependent $Ca^{2+}$ channels. <i>Cell Calcium</i> , <b>2015</b> , 58, 296-306	4	6
43	Transportsomes and channelsomes: are they functional units for physiological responses?. <i>Channels</i> , <b>2011</b> , 5, 387-90	3	6
42	TRPM2 confers susceptibility to social stress but is essential for behavioral flexibility. <i>Brain Research</i> , <b>2019</b> , 1704, 68-77	3.7	6
41	Thermosensitive Ion Channel Activation in Single Neuronal Cells by Using Surface-Engineered Plasmonic Nanoparticles. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 11891-11895	3.6	5
40	Extreme deformability of insect cell membranes is governed by phospholipid scrambling. <i>Cell Reports</i> , <b>2021</b> , 35, 109219	10.6	5
39	Involvement of TRPM2 and TRPM8 in temperature-dependent masking behavior. <i>Scientific Reports</i> , <b>2019</b> , 9, 3706	4.9	4
38	Integrative Approach with Electrophysiological and Theoretical Methods Reveals a New Role of S4 Positively Charged Residues in PKD2L1 Channel Voltage-Sensing. <i>Scientific Reports</i> , <b>2017</b> , 7, 9760	4.9	4
37	TRPC3 amplifies B-cell receptor-induced ERK signalling via protein kinase D-dependent Rap1 activation. <i>Biochemical Journal</i> , <b>2016</b> , 473, 201-10	3.8	4
36	Possible involvement of TRPM2 activation in 5-fluorouracil-induced myelosuppression in mice. <i>European Journal of Pharmacology</i> , <b>2021</b> , 891, 173671	5.3	4
35	Role of transient receptor potential melastatin 2 in surgical inflammation and dysmotility in a mouse model of postoperative ileus. <i>American Journal of Physiology - Renal Physiology</i> , <b>2018</b> , 315, G104-G116	5.1	3
34	TRPM2 links oxidative stress to the NLRP3 inflammasome activation (P1268). <i>Journal of Immunology</i> , <b>2013</b> , 190,	5.3	3
33	Blockade of astrocytic activation delays the occurrence of severe hypoxia-induced seizure and respiratory arrest in mice. <i>Journal of Comparative Neurology</i> , <b>2020</b> , 528, 1257-1264	3.4	3

32	Osteoclasts adapt to physioxia perturbation through DNA demethylation. <i>EMBO Reports</i> , <b>2021</b> , 22, e53035	2
31	Transient Receptor Potential Ankyrin 1 Mediates Hypoxic Responses in Mice. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 576209	4.6 2
30	A Rapid Shift from Chronic Hyperoxia to Normoxia Induces Systemic Anaphylaxis via Transient Receptor Potential Ankyrin 1 Channels on Mast Cells. <i>Journal of Immunology</i> , <b>2020</b> , 205, 2959-2967	5.3 2
29	TRPM7 is an essential regulator for volume-sensitive outwardly rectifying anion channel. <i>Communications Biology</i> , <b>2021</b> , 4, 599	6.7 2
28	Deletion of TRPC3 or TRPC6 Fails to Attenuate the Formation of Inflammation and Fibrosis in Non-alcoholic Steatohepatitis. <i>Biological and Pharmaceutical Bulletin</i> , <b>2021</b> , 44, 431-436	2.3 2
27	Deep-Red/Near-Infrared Turn-On Fluorescence Probes for Aldehyde Dehydrogenase 1A1 in Cancer Stem Cells. <i>ACS Sensors</i> , <b>2021</b> , 6, 3320-3329	9.2 2
26	Fluorescence detection of the nitric oxide-induced structural change at the putative nitric oxide sensing segment of TRPC5. <i>Bioorganic and Medicinal Chemistry</i> , <b>2020</b> , 28, 115430	3.4 1
25	DNA Origami Scaffolds as Templates for Functional Tetrameric Kir3 K+ Channels. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 2616-2621	3.6 1
24	Structure determination of the human TRPV1 ankyrin-repeat domain under nonreducing conditions. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2020</b> , 76, 130-137	1.1 1
23	Striatal TRPV1 activation by acetaminophen ameliorates dopamine D2 receptor antagonist-induced orofacial dyskinesia. <i>JCI Insight</i> , <b>2021</b> , 6,	9.9 1
22	Oxygen physiology: sensors and ion channels. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2016</b> , 468, 1-2	4.6 1
21	Deficiency of the RII $\alpha$ subunit of protein kinase A causes body tremor and impaired fear conditioning memory in rats. <i>Scientific Reports</i> , <b>2021</b> , 11, 2039	4.9 1
20	MrgprB4 in trigeminal neurons expressing TRPA1 modulates unpleasant sensations. <i>Journal of Pharmacological Sciences</i> , <b>2021</b> , 146, 200-205	3.7 1
19	Cell-autonomous control of intracellular temperature by unsaturation of phospholipid acyl chains.. <i>Cell Reports</i> , <b>2022</b> , 38, 110487	10.6 1
18	Activation of Astrocytes in the Persistence of Post-hypoxic Respiratory Augmentation. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 757731	4.6 0
17	Determination of the physiological range of oxygen tension in bone marrow monocytes using two-photon phosphorescence lifetime imaging microscopy.. <i>Scientific Reports</i> , <b>2022</b> , 12, 3497	4.9 0
16	TRPM2 deficiency in mice protects against atherosclerosis by inhibiting TRPM2-CD36 inflammatory axis in macrophages. <b>2022</b> , 1, 344-360	0
15	TRPV4 Channel Activity Is Modulated by Direct Interaction of the Ankyrin Domain to PI(4,5)P2. <i>Seibutsu Butsuri</i> , <b>2015</b> , 55, 262-265	0

- 14 Visualization of Intracellular Temperature Distribution Using A Thermoresponsive Fluorescent Protein. *Seibutsu Butsuri*, **2014**, 54, 253-256 ○
- 13 3P-005 3D structure of tetrameric Orai1 channel; a teardrop-shaped structure with a long, tapered cytoplasmic domain(Protein:Structure,The 47th Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2009**, 49, S151 ○
- 12 Mapping of Non-methylated and Methylated Restriction Sites in the Promoter Region of the Maize Gene for Phosphoenolpyruvate Carboxylase Involved in C4 Photosynthesis. *Agricultural and Biological Chemistry*, **1991**, 55, 2877-2879
- 11 Unveiled cold sensitivity of TRPA1 by the prolyl hydroxylation inhibition-induced sensitization to ROS in oxaliplatin-induced acute peripheral neuropathy. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, PO2-2-42 ○
- 10 Role of transient receptor potential melastatin 2 in surgical inflammation and dysmotility in a mouse model of post-operative ileus. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, OR21-1 ○
- 9 Fluorescent imaging of in vivo H2O2 levels reveals contribution of oxidative microenvironment to tumor malignancy. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, PO2-10-36 ○
- 8 Spontaneous Ca<sup>2+</sup> fluctuations mediated by TRPM7 channels in growth plate chondrocytes. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, PO1-4-31 ○
- 7 Protective effect of duloxetine against cerebral ischemia-reperfusion injury through TRPM2 inhibition. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, PO2-1-14 ○
- 6 TRPM2 confers susceptibility to social stress but is essential for behavioral flexibility. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2019**, 92, 2-P-021 ○
- 5 Pathophysiological role of mitochondria-actin interactions in mouse hearts after myocardial infarction. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2019**, 92, 2-YIA-21 ○
- 4 Current studies and possibilities of cation/Ca<sup>2+</sup> channels as a target of pesticides. *Japanese Journal of Pesticide Science*, **2015**, 40, 68-74 ○
- 3 Molecular basis for species-selective insecticidal activity of flubendiamide. *Journal of Pesticide Sciences*, **2011**, 36, 102-105 2.7
- 2 V for versatility: TRPV4 Ca entry channel plays multiple roles in invadosome regulation. *Cell Calcium*, **2021**, 96, 102387 4
- 1 Hippocampus-related cognitive disorders develop in the absence of epilepsy and ataxia in the heterozygous mutant mice .. *Channels*, **2022**, 16, 113-126 3