Minoru Wakamori

List of Publications by Citations

55 papers	3,575 citations	26 h-index	56 g-index
56 ext. papers	3,811 ext. citations	6.1 avg, IF	3.99 L-index

#	Paper	IF	Citations
55	LTRPC2 Ca2+-permeable channel activated by changes in redox status confers susceptibility to cell death. *Molecular Cell*, **2002**, 9, 163-73	17.6	653
54	Selective and direct inhibition of TRPC3 channels underlies biological activities of a pyrazole compound. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 5400-5	11.5	299
53	Coupling of STIM1 to store-operated Ca2+ entry through its constitutive and inducible movement in the endoplasmic reticulum. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 16704-9	11.5	262
52	Molecular cloning and functional characterization of a novel receptor-activated TRP Ca2+ channel from mouse brain. *Journal of Biological Chemistry*, **1998**, 273, 10279-87	5.4	235
51	Single tottering mutations responsible for the neuropathic phenotype of the P-type calcium channel. *Journal of Biological Chemistry*, **1998**, 273, 34857-67	5.4	187
50	RIM1 confers sustained activity and neurotransmitter vesicle anchoring to presynaptic Ca2+ channels. *Nature Neuroscience*, **2007**, 10, 691-701	25.5	186
49	Transient receptor potential 1 regulates capacitative Ca(2+) entry and Ca(2+) release from endoplasmic reticulum in B lymphocytes. *Journal of Experimental Medicine*, **2002**, 195, 673-81	16.6	175
48	A critical role of TRPM2 in neuronal cell death by hydrogen peroxide. *Journal of Pharmacological Sciences*, **2006**, 101, 66-76	3.7	165
47	Reduced voltage sensitivity of activation of P/Q-type Ca2+ channels is associated with the ataxic mouse mutation rolling Nagoya (tg(rol)). *Journal of Neuroscience*, **2000**, 20, 5654-62	6.6	161
46	Differential nociceptive responses in mice lacking the alpha(1B) subunit of N-type Ca(2+) channels. *NeuroReport*, **2001**, 12, 2423-7	1.7	127
45	Bidirectional alterations in cerebellar synaptic transmission of tottering and rolling Ca2+ channel mutant mice. *Journal of Neuroscience*, **2002**, 22, 4388-98	6.6	99
44	Direct alteration of the P/Q-type Ca2+ channel property by polyglutamine expansion in spinocerebellar ataxia 6. *Journal of Neuroscience*, **1999**, 19, RC14	6.6	99
43	Molecular pharmacology of voltage-dependent calcium channels. *The Japanese Journal of Pharmacology*, **1996**, 72, 83-109		69
42	Properties of human Cav2.1 channel with a spinocerebellar ataxia type 6 mutation expressed in Purkinje cells. *Molecular and Cellular Neurosciences*, **2007**, 34, 261-70	4.8	59
41	Excitatory amino acid response in isolated nucleus tractus solitarii neurons of the rat. *Neuroscience Research*, **1990**, 8, 114-23	2.9	57
40	A missense mutation of the gene encoding voltage-dependent sodium channel (Nav1.1) confers susceptibility to febrile seizures in rats. *Journal of Neuroscience*, **2010**, 30, 5744-53	6.6	56
39	Ca2+-calmodulin-dependent myosin light chain kinase is essential for activation of TRPC5 channels expressed in HEK293 cells. *Journal of Physiology*, **2006**, 570, 219-35	3.9	56

38	Functional characterization of ion permeation pathway in the N-type Ca2+ channel. *Journal of Neurophysiology*, **1998**, 79, 622-34	3.2	56
37	Auxiliary subunits operate as a molecular switch in determining gating behaviour of the unitary N-type Ca2+ channel current in Xenopus oocytes. *Journal of Physiology*, **1999**, 517 (Pt 3), 659-72	3.9	49
36	Arachidonic acid can function as a signaling modulator by activating the TRPM5 cation channel in taste receptor cells. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2006**, 1761, 1078-84	5	46
35	Spontaneous single-channel activity of neuronal TRP5 channel recombinantly expressed in HEK293 cells. *Neuroscience Letters*, **2000**, 285, 111-4	3.3	43
34	Differential interactions of the C terminus and the cytoplasmic I-II loop of neuronal Ca2+ channels with G-protein alpha and beta gamma subunits. I. Molecular determination. *Journal of Biological Chemistry*, **1998**, 273, 17585-94	5.4	42
33	Rab3-interacting molecule gamma isoforms lacking the Rab3-binding domain induce long lasting currents but block neurotransmitter vesicle anchoring in voltage-dependent P/Q-type Ca2+ channels. *Journal of Biological Chemistry*, **2010**, 285, 21750-67	5.4	40
32	Development of Purkinje cell degeneration in a knockin mouse model reveals lysosomal involvement in the pathogenesis of SCA6. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 17693-8	11.5	37
31	Differential binding of tetrodotoxin and its derivatives to voltage-sensitive sodium channel subtypes (Na 1.1 to Na 1.7). *British Journal of Pharmacology*, **2017**, 174, 3881-3892	8.6	33
30	Pharmacological properties of SAK3, a novel T-type voltage-gated Ca channel enhancer. *Neuropharmacology*, **2017**, 117, 1-13	5.5	28
29	A CaV2.1 calcium channel mutation rocker reduces the number of postsynaptic AMPA receptors in parallel fiber-Purkinje cell synapses. *European Journal of Neuroscience*, **2006**, 24, 2993-3007	3.5	26
28	A pathogenic C terminus-truncated polycystin-2 mutant enhances receptor-activated Ca2+ entry via association with TRPC3 and TRPC7. *Journal of Biological Chemistry*, **2009**, 284, 34400-12	5.4	24
27	Mutation associated with an autosomal dominant cone-rod dystrophy CORD7 modifies RIM1-mediated modulation of voltage-dependent Ca2+ channels. *Channels*, **2007**, 1, 144-7	3	24
26	Stable expression and coupling of cardiac L-type Ca2+ channels with beta 1-adrenoceptors. *Circulation Research*, **1995**, 76, 335-42	15.7	24
25	A functional AMPA receptor-calcium channel complex in the postsynaptic membrane. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 5561-6	11.5	23
24	Inhibitory effects of AG490 on H2O2-induced TRPM2-mediated Ca(2+) entry. *European Journal of Pharmacology*, **2014**, 742, 22-30	5.3	18
23	Knockdown of Cav2.1 calcium channels is sufficient to induce neurological disorders observed in natural occurring Cacna1a mutants in mice. *Biochemical and Biophysical Research Communications*, **2009**, 390, 1029-33	3.4	18
22	Alteration of channel characteristics by exchange of pore-forming regions between two structurally related Ca2+ channels. *Molecular and Cellular Biochemistry*, **1994**, 140, 93-102	4.2	13
21	Properties of native P2X receptors in large multipolar neurons dissociated from rat hypothalamic arcuate nucleus. *Brain Research*, **2004**, 1005, 51-9	3.7	12

20	A new type of Ca2+ channel blocker, NC-1100, inhibits the low- and high-threshold Ca2+ currents in the rat CNS neurons. *Brain Research*, **1992**, 598, 215-20	3.7	11
19	Compromised maturation of GABAergic inhibition underlies abnormal network activity in the hippocampus of epileptic Ca2+ channel mutant mice, tottering. *Pflugers Archiv European Journal of Physiology*, **2015**, 467, 737-52	4.6	9
18	The lethal expression of the GluR2flip/GluR4flip AMPA receptor in HEK293 cells. *European Journal of Neuroscience*, **2000**, 12, 3900-8	3.5	9
17	Protective Effects of Duloxetine against Cerebral Ischemia-Reperfusion Injury via Transient Receptor Potential Melastatin 2 Inhibition. *Journal of Pharmacology and Experimental Therapeutics*, **2019**, 368, 246-254	4.7	9
16	Solution structure of agelenin, an insecticidal peptide isolated from the spider Agelena opulenta, and its structural similarities to insect-specific calcium channel inhibitors. *FEBS Letters*, **2007**, 581, 3789-94	3.8	8
15	Alternative splicing in the C-terminal tail of Cav2.1 is essential for preventing a neurological disease in mice. *Human Molecular Genetics*, **2017**, 26, 3094-3104	5.6	6
14	Inhibitory effects of cilnidipine on peripheral and brain N-type Ca2+ channels expressed in BHK cells. *Neuropharmacology*, **2002**, 42, 1099-108	5.5	5
13	Inhibition of veratridine-induced delayed inactivation of the voltage-sensitive sodium channel by synthetic analogs of crambescin B. *Bioorganic and Medicinal Chemistry Letters*, **2017**, 27, 1247-1251	2.9	4
12	Synthesis of quinolyl-pyrrole derivatives as novel environment-sensitive fluorescent probes. *Journal of Photochemistry and Photobiology A: Chemistry*, **2019**, 382, 111900	4.7	4
11	Limited intercellular spread of spontaneous Ca2+ signals via gap junctions between mouse chromaffin cells in situ. *Neuroscience Letters*, **2002**, 323, 97-100	3.3	4
10	Nicotinic ACh receptors in area postrema neurons of immature rat brain. *Neuroscience Letters*, **2005** , 381, 350-3	3.3	3
9	Capsaicin and Proton Differently Modulate Activation Kinetics of Mouse Transient Receptor Potential Vanilloid-1 Channel Induced by Depolarization. *Frontiers in Pharmacology*, **2021**, 12, 672157	5.6	1
8	Identification of ultra-rare disruptive variants in voltage-gated calcium channel-encoding genes in Japanese samples of schizophrenia and autism spectrum disorder.. *Translational Psychiatry*, **2022**, 12, 84	8.6	1
7	Mode-selective inhibitory effects of eugenol on the mouse TRPV1 channel. *Biochemical and Biophysical Research Communications*, **2021**, 556, 156-162	3.4	0
6	Unraveling the rat blood genome-wide transcriptome after oral administration of lavender oil by a two-color dye-swap DNA microarray approach. *Genomics Data*, **2016**, 8, 139-45		
5	Neuronal Ca2+-sensitive Non-selective Cation Channels and TRPC5. *Journal of Oral Biosciences*, **2010**, 52, 352-357	2.5	
4	Zinc promotes differentiation and proliferation of MC3T3-E1 cells through activation of Ca2+-activatide K+ channels. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, PO4-3-53	0	
3	Transient receptor potential channels and mechanobiology **2010**, 48-52		

2 Melastatin Transient Receptor Potential Channel Type 5 **2012**, 341-345

1 Induction of myoepithelial cell differentiation by carbachol, a parasympathetic neurotransmitter agonist, during salivary gland development.. *Experimental Cell Research*, **2022**, 113137 4.2