Yoshihiro Kubo

List of Publications by Citations

103 papers	4,807 citations	32 h-index	68 g-index
116 ext. papers	5,214 ext. citations	6.3 avg, IF	5.41 L-index

#	Paper	IF	Citations
103	Primary structure and functional expression of a mouse inward rectifier potassium channel. *Nature*, **1993**, 362, 127-33	50.4	976
102	Primary structure and functional expression of a rat G-protein-coupled muscarinic potassium channel. *Nature*, **1993**, 364, 802-6	50.4	581
101	International Union of Pharmacology. LIV. Nomenclature and molecular relationships of inwardly rectifying potassium channels. *Pharmacological Reviews*, **2005**, 57, 509-26	22.5	217
100	A mammalian neural tissue opsin (Opsin 5) is a deep brain photoreceptor in birds. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 15264-8	11.5	208
99	RGS8 accelerates G-protein-mediated modulation of K+ currents. *Nature*, **1997**, 390, 525-9	50.4	197
98	Ligand-induced rearrangement of the dimeric metabotropic glutamate receptor 1alpha. *Nature Structural and Molecular Biology*, **2004**, 11, 637-42	17.6	152
97	Stoichiometry of the KCNQ1 - KCNE1 ion channel complex. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 18862-7	11.5	143
96	Control of rectification and permeation by two distinct sites after the second transmembrane region in Kir2.1 K+ channel. *Journal of Physiology*, **2001**, 531, 645-60	3.9	122
95	Primary structure of a dynamin-related mouse mitochondrial GTPase and its distribution in brain, subcellular localization, and effect on mitochondrial morphology. *Journal of Biological Chemistry*, **2002**, 277, 15834-42	5.4	111
94	Multiple PIP2 binding sites in Kir2.1 inwardly rectifying potassium channels. *FEBS Letters*, **2001**, 490, 49-53	3.8	100
93	Caffeine activates mouse TRPA1 channels but suppresses human TRPA1 channels. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 17373-8	11.5	92
92	Novel KCNJ2 mutation in familial periodic paralysis with ventricular dysrhythmia. *Circulation*, **2002**, 105, 2592-4	16.7	86
91	Dual signaling is differentially activated by different active states of the metabotropic glutamate receptor 1alpha. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 1124-8	11.5	75
90	KCNE1 and KCNE3 stabilize and/or slow voltage sensing S4 segment of KCNQ1 channel. *Journal of General Physiology*, **2007**, 130, 269-81	3.4	74
89	Density-dependent changes of the pore properties of the P2X2 receptor channel. *Journal of Physiology*, **2004**, 558, 31-43	3.9	68
88	RGS7 and RGS8 differentially accelerate G protein-mediated modulation of K+ currents. *Journal of Biological Chemistry*, **1999**, 274, 9899-904	5.4	68
87	Regulation of the desensitization and ion selectivity of ATP-gated P2X2 channels by phosphoinositides. *Journal of Physiology*, **2006**, 576, 135-49	3.9	64

86	Regulator of G protein signaling 8 (RGS8) requires its NH2 terminus for subcellular localization and acute desensitization of G protein-gated K+ channels. *Journal of Biological Chemistry*, **2001**, 276, 5052-8	5.4	60
85	The motor protein prestin is a bullet-shaped molecule with inner cavities. *Journal of Biological Chemistry*, **2008**, 283, 1137-45	5.4	55
84	Towards a view of functioning dimeric metabotropic receptors. *Current Opinion in Neurobiology*, **2005**, 15, 289-95	7.6	55
83	Functional roles of charged amino acid residues on the wall of the cytoplasmic pore of Kir2.1. *Journal of General Physiology*, **2006**, 127, 401-19	3.4	53
82	Alternative splicing of RGS8 gene determines inhibitory function of receptor type-specific Gq signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 10138-43	11.5	49
81	Green tea polyphenol epigallocatechin gallate activates TRPA1 in an intestinal enteroendocrine cell line, STC-1. *Chemical Senses*, **2012**, 37, 167-77	4.8	46
80	On-site energy supply at synapses through monocarboxylate transporters maintains excitatory synaptic transmission. *Journal of Neuroscience*, **2014**, 34, 2605-17	6.6	45
79	Auto-oxidation products of epigallocatechin gallate activate TRPA1 and TRPV1 in sensory neurons. *Chemical Senses*, **2015**, 40, 27-46	4.8	43
78	Visualization of the trimeric P2X2 receptor with a crown-capped extracellular domain. *Biochemical and Biophysical Research Communications*, **2005**, 337, 998-1005	3.4	42
77	OPA1 expression in the normal rat retina and optic nerve. *Journal of Comparative Neurology*, **2005**, 488, 1-10	3.4	40
76	Localization and developmental changes of the expression of two inward rectifying K(+)-channel proteins in the rat brain. *Brain Research*, **1997**, 750, 251-63	3.7	38
75	The Met268Pro mutation of mouse TRPA1 changes the effect of caffeine from activation to suppression. *Biophysical Journal*, **2010**, 99, 3609-18	2.9	37
74	Protein kinase C shifts the voltage dependence of KCNQ/M channels expressed in Xenopus oocytes. *Journal of Physiology*, **2005**, 569, 59-74	3.9	35
73	Ivermectin and its target molecules: shared and unique modulation mechanisms of ion channels and receptors by ivermectin. *Journal of Physiology*, **2018**, 596, 1833-1845	3.9	34
72	Alternative splicing of RGS8 gene changes the binding property to the M1 muscarinic receptor to confer receptor type-specific Gq regulation. *Journal of Neurochemistry*, **2006**, 99, 1505-16	6	32
71	Identification of a site involved in the block by extracellular Mg(2+) and Ba(2+) as well as permeation of K(+) in the Kir2.1 K(+) channel. *Journal of Physiology*, **2002**, 544, 665-77	3.9	32
70	Effects of coexpression with Homer isoforms on the function of metabotropic glutamate receptor 1alpha. *Molecular and Cellular Neurosciences*, **2003**, 23, 157-68	4.8	32
69	Ser165 in the second transmembrane region of the Kir2.1 channel determines its susceptibility to blockade by intracellular Mg2+. *Journal of General Physiology*, **2002**, 120, 677-93	3.4	31

68	Steric hindrance between S4 and S5 of the KCNQ1/KCNE1 channel hampers pore opening. *Nature Communications*, **2014**, 5, 4100	17.4	29
67	Ligand-induced rearrangements of the GABA(B) receptor revealed by fluorescence resonance energy transfer. *Journal of Biological Chemistry*, **2010**, 285, 10291-9	5.4	29
66	Functional identification of Gd3+ binding site of metabotropic glutamate receptor 1alpha. *FEBS Letters*, **2003**, 545, 233-8	3.8	26
65	KCNQ1 channel modulation by KCNE proteins via the voltage-sensing domain. *Journal of Physiology* , **2015**, 593, 2617-25	3.9	25
64	Voltage- and [ATP]-dependent gating of the P2X(2) ATP receptor channel. *Journal of General Physiology*, **2009**, 133, 93-109	3.4	24
63	Cloning and characterization of a bifunctional metabotropic receptor activated by both extracellular calcium and glutamate. *FEBS Letters*, **1996**, 392, 71-6	3.8	24
62	Sensitivities of Two Zebrafish TRPA1 Paralogs to Chemical and Thermal Stimuli Analyzed in Heterologous Expression Systems. *Chemical Senses*, **2016**, 41, 261-72	4.8	23
61	Ivermectin activates GIRK channels in a PIP -dependent, G -independent manner and an amino acid residue at the slide helix governs the activation. *Journal of Physiology*, **2017**, 595, 5895-5912	3.9	22
60	The stoichiometry and biophysical properties of the Kv4 potassium channel complex with K+ channel-interacting protein (KChIP) subunits are variable, depending on the relative expression level. *Journal of Biological Chemistry*, **2014**, 289, 17597-609	5.4	22
59	Coupling profile of the metabotropic glutamate receptor 1alpha is regulated by the C-terminal domain. *Molecular and Cellular Neurosciences*, **2007**, 34, 445-52	4.8	22
58	A weakly inward rectifying potassium channel of the salmon brain. Glutamate 179 in the second transmembrane domain is insufficient for strong rectification. *Journal of Biological Chemistry*, **1996**, 271, 15729-35	5.4	22
57	Probing pore topology and conformational changes of Kir2.1 potassium channels by cysteine scanning mutagenesis. *FEBS Letters*, **1998**, 435, 69-73	3.8	21
56	Second coiled-coil domain of KCNQ channel controls current expression and subfamily specific heteromultimerization by salt bridge networks. *Journal of Physiology*, **2008**, 586, 2827-40	3.9	20
55	Identification of domains of the cardiac inward rectifying K+ channel, CIR, involved in the heteromultimer formation and in the G-protein gating. *Biochemical and Biophysical Research Communications*, **1996**, 227, 240-7	3.4	19
54	The dynamin-related mouse mitochondrial GTPase OPA1 alters the structure of the mitochondrial inner membrane when exogenously introduced into COS-7 cells. *Neuroscience Research*, **2006**, 55, 123-33	2.9	18
53	Reconstruction of the P2X(2) receptor reveals a vase-shaped structure with lateral tunnels above the membrane. *Structure*, **2009**, 17, 266-75	5.2	17
52	Congenital goitrous hypothyroidism is caused by dysfunction of the iodide transporter SLC26A7. *Communications Biology*, **2019**, 2, 270	6.7	16
51	Functional and structural identification of amino acid residues of the P2X2 receptor channel critical for the voltage- and [ATP]-dependent gating. *Journal of Physiology*, **2009**, 587, 5801-18	3.9	16

50	Towards the elucidation of the structural-functional relationship of inward rectifying K+ channel family. *Neuroscience Research*, **1994**, 21, 109-17	2.9	16
49	Nano-environmental changes by KCNE proteins modify KCNQ channel function. *Channels*, **2011**, 5, 397-401	3	15
48	A ciliary opsin in the brain of a marine annelid zooplankton is ultraviolet-sensitive, and the sensitivity is tuned by a single amino acid residue. *Journal of Biological Chemistry*, **2017**, 292, 12971-12980	5.4	14
47	The epithelial sodium channel in the Australian lungfish, Neoceratodus forsteri (Osteichthyes: Dipnoi). *Proceedings of the Royal Society B: Biological Sciences*, **2012**, 279, 4795-802	4.4	14
46	The intra-molecular activation mechanisms of the dimeric metabotropic glutamate receptor 1 differ depending on the type of G proteins. *Neuropharmacology*, **2011**, 61, 832-41	5.5	13
45	KCNQ1 subdomains involved in KCNE modulation revealed by an invertebrate KCNQ1 orthologue. *Journal of General Physiology*, **2011**, 138, 521-35	3.4	13
44	Cyclosporin A selectively reduces the functional expression of Kir2.1 potassium channels in Xenopus oocytes. *FEBS Letters*, **1998**, 422, 307-10	3.8	13
43	Usefulness of chironomid larvae as indicators of water quality. *Medical Entomology and Zoology*, **1989**, 40, 269-283	0.6	13
42	AMPA glutamate receptors are required for sensory-organ formation and morphogenesis in the basal chordate. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 3939-3944	11.5	12
41	Retinal Attachment Instability Is Diversified among Mammalian Melanopsins. *Journal of Biological Chemistry*, **2015**, 290, 27176-27187	5.4	12
40	Heteromeric assembly of inward rectifier channel subunit Kir2.1 with Kir3.1 and with Kir3.4. *Biochemical and Biophysical Research Communications*, **2009**, 380, 832-7	3.4	11
39	Spinophilin inhibits the binding of RGS8 to M1-mAChR but enhances the regulatory function of RGS8. *Biochemical and Biophysical Research Communications*, **2008**, 377, 200-4	3.4	11
38	Chemical and thermal sensitivity of medaka TRPA1 analyzed in heterologous expression system. *Biochemical and Biophysical Research Communications*, **2017**, 494, 194-201	3.4	10
37	Phosphoinositides modulate the voltage dependence of two-pore channel 3. *Journal of General Physiology*, **2019**, 151, 986-1006	3.4	10
36	Signal transmission within the P2X2 trimeric receptor. *Journal of General Physiology*, **2014**, 143, 761-82	3.4	10
35	Kv4.2 and accessory dipeptidyl peptidase-like protein 10 (DPP10) subunit preferentially form a 4:2 (Kv4.2:DPP10) channel complex. *Journal of Biological Chemistry*, **2015**, 290, 22724-33	5.4	9
34	Binding of Gq protein stabilizes the activated state of the muscarinic receptor type 1. *Neuropharmacology*, **2013**, 65, 173-81	5.5	9
33	Two mutations at different positions in the CNBH domain of the hERG channel accelerate deactivation and impair the interaction with the EAG domain. *Journal of Physiology*, **2018**, 596, 4629-4650	3.9	8

32	Structural rearrangements of the motor protein prestin revealed by fluorescence resonance energy transfer. *American Journal of Physiology - Cell Physiology*, **2009**, 297, C290-8	5.4	8
31	Two aspects of the inward rectification mechanism. Effects of cytoplasmic blockers and extracellular K+ on the inward rectifier K+ channel. *International Heart Journal*, **1996**, 37, 631-41		8
30	Gi/o-coupled muscarinic receptors co-localize with GIRK channel for efficient channel activation. *PLoS ONE*, **2018**, 13, e0204447	3.7	8
29	Effects of spinophilin on the function of RGS8 regulating signals from M2 and M3-mAChRs. *NeuroReport*, **2009**, 20, 1134-9	1.7	7
28	Non-sedating antihistamines block G-protein-gated inwardly rectifying K channels. *British Journal of Pharmacology*, **2019**, 176, 3161-3179	8.6	6
27	Structural properties determining low K affinity of the selectivity filter in the TWIK1 K channel. *Journal of Biological Chemistry*, **2018**, 293, 6969-6984	5.4	6
26	Analyses of the effects of Gq protein on the activated states of the muscarinic M3 receptor and the purinergic P2Y1 receptor. *Physiological Reports*, **2013**, 1, e00134	2.6	6
25	Identification and characterization of Cs(+) -permeable K(+) channel current in mouse cerebellar Purkinje cells in lobules 9 and 10 evoked by molecular layer stimulation. *European Journal of Neuroscience*, **2010**, 32, 736-48	3.5	6
24	Dynamic aspects of functional regulation of the ATP receptor channel P2X2. *Journal of Physiology*, **2009**, 587, 5317-24	3.9	6
23	Isolation of a cDNA for a novel 120-kDa GTP-binding protein expressed in motor neurons in the salmon brain. *FEBS Letters*, **1998**, 431, 231-5	3.8	5
22	Regulatory role of C-terminus in the G-protein coupling of the metabotropic glutamate receptor 1. *Journal of Neurochemistry*, **2008**, 107, 1036-46	6	5
21	Characterization of heteromultimeric G protein-coupled inwardly rectifying potassium channels of the tunicate tadpole with a unique pore property. *Journal of Biological Chemistry*, **2001**, 276, 18529-39	5.4	5
20	Sensitivity of Takifugu TRPA1 to thermal stimulations analyzed in oocytes expression system. *NeuroReport*, **2018**, 29, 280-285	1.7	5
19	SLO potassium channels antagonize premature decision making in. *Communications Biology*, **2018**, 1, 123	6.7	5
18	POTASSIUM CURRENTS INDUCED BY MUSCARINIC RECEPTOR ACTIVATION IN THE RAT ADRENAL CHROMAFFIN CELL . *Biomedical Research*, **1989**, 10, 71-81	1.5	4
17	Stabilizing effects of G protein on the active conformation of adenosine A1 receptor differ depending on G protein type. *European Journal of Pharmacology*, **2016**, 788, 122-131	5.3	3
16	Voltage- and ATP-dependent structural rearrangements of the P2X2 receptor associated with the gating of the pore. *Journal of Physiology*, **2014**, 592, 4657-76	3.9	3
15	Voltage-clamp fluorometry analysis of structural rearrangements of ATP-gated channel P2X2 upon hyperpolarization. *ELife*, **2021**, 10,	8.9	2

14	Functional properties of axolotl transient receptor potential ankyrin 1 revealed by the heterologous expression system. *NeuroReport*, **2019**, 30, 323-330	1.7	2
13	A novel ion conducting route besides the central pore in an inherited mutant of G-protein-gated inwardly rectifying K channel. *Journal of Physiology*, **2021**,	3.9	1
12	Functional Expression of GnRH Receptors in Xenopus Oocytes Injected with Salmon Brain RNA.. *Journal of Reproduction and Development*, **1996**, 42, 283-289	2.1	1
11	Intrinsic Gating Behavior of Voltage-Gated Sodium Channels Predetermines Regulation by Auxiliary □subunits		1
10	Mechanism of hERG inhibition by gating-modifier toxin, APETx1, deduced by functional characterization. *BMC Molecular and Cell Biology*, **2021**, 22, 3	2.7	1
9	Biophysical research in Okazaki, Japan. *Biophysical Reviews*, **2020**, 12, 237-243	3.7	0
8	Phosphoinositide regulates dynamic movement of the S4 voltage sensor in the second repeat in two-pore channel 3. *Journal of Biological Chemistry*, **2021**, 297, 101425	5.4	0
7	Molecular cloning and characterization of a new RGS protein of Medaka. *Gene*, **2005**, 345, 165-71	3.8	
6	1P009 Single particle analysis of purinergic P2X2 receptor(1. Protein structure and dynamics (I),Poster Session,Abstract,Meeting Program of EABS & BSJ 2006). *Seibutsu Butsuri*, **2006**, 46, S149	0	
5	Chapter 11 Structure□unction Relationship of the Inward Rectifier Potassium Channel. *Current Topics in Membranes*, **1999**, 177-198	2.2	
4	Regulatory Mechanisms of GIRK Channel by Small Molecules. *Japanese Journal of Electrocardiology*, **2020**, 40, 107-113	0	
3	Primary structure and functional expression of a mouse inward rectifier K+ channel and rat G-protein-coupled muscarinic K+ channel.. *Japanese Journal of Electrocardiology*, **1995**, 15, 106-113	0	
2	Primary structure and biophysical properties of inward rectifying K+ channel family. *Developments in Cardiovascular Medicine*, **1996**, 131-139		
1	Intracellular analysis of masticatory rhythm of trigeminal motoneurons. *Japanese Journal of Oral Biology*, **1978**, 20, 144-153		