

Yoshihiro Kubo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A novel ion conducting route besides the central pore in an inherited mutant of G-protein-gated inwardly rectifying K channel. <i>Journal of Physiology</i> , 2021 ,	3.9	1
102	Phosphoinositide regulates dynamic movement of the S4 voltage sensor in the second repeat in two-pore channel 3. <i>Journal of Biological Chemistry</i> , 2021 , 297, 101425	5.4	0
101	Voltage-clamp fluorometry analysis of structural rearrangements of ATP-gated channel P2X2 upon hyperpolarization. <i>ELife</i> , 2021 , 10,	8.9	2
100	Mechanism of hERG inhibition by gating-modifier toxin, APETx1, deduced by functional characterization. <i>BMC Molecular and Cell Biology</i> , 2021 , 22, 3	2.7	1
99	Biophysical research in Okazaki, Japan. <i>Biophysical Reviews</i> , 2020 , 12, 237-243	3.7	0
98	Regulatory Mechanisms of GIRK Channel by Small Molecules. <i>Japanese Journal of Electrocardiology</i> , 2020 , 40, 107-113	0	
97	Phosphoinositides modulate the voltage dependence of two-pore channel 3. <i>Journal of General Physiology</i> , 2019 , 151, 986-1006	3.4	10
96	Non-sedating antihistamines block G-protein-gated inwardly rectifying K channels. <i>British Journal of Pharmacology</i> , 2019 , 176, 3161-3179	8.6	6
95	Congenital goitrous hypothyroidism is caused by dysfunction of the iodide transporter SLC26A7. <i>Communications Biology</i> , 2019 , 2, 270	6.7	16
94	Functional properties of axolotl transient receptor potential ankyrin 1 revealed by the heterologous expression system. <i>NeuroReport</i> , 2019 , 30, 323-330	1.7	2
93	Structural properties determining low K affinity of the selectivity filter in the TWIK1 K channel. <i>Journal of Biological Chemistry</i> , 2018 , 293, 6969-6984	5.4	6
92	Ivermectin and its target molecules: shared and unique modulation mechanisms of ion channels and receptors by ivermectin. <i>Journal of Physiology</i> , 2018 , 596, 1833-1845	3.9	34
91	Two mutations at different positions in the CNBH domain of the hERG channel accelerate deactivation and impair the interaction with the EAG domain. <i>Journal of Physiology</i> , 2018 , 596, 4629-4650	3.9	8
90	Sensitivity of Takifugu TRPA1 to thermal stimulations analyzed in oocytes expression system. <i>NeuroReport</i> , 2018 , 29, 280-285	1.7	5
89	SLO potassium channels antagonize premature decision making in. <i>Communications Biology</i> , 2018 , 1, 123	6.7	5
88	Gi/o-coupled muscarinic receptors co-localize with GIRK channel for efficient channel activation. <i>PLoS ONE</i> , 2018 , 13, e0204447	3.7	8
87	AMPA glutamate receptors are required for sensory-organ formation and morphogenesis in the basal chordate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3939-3944	11.5	12

86	Chemical and thermal sensitivity of medaka TRPA1 analyzed in heterologous expression system. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 494, 194-201	3.4	10
85	Ivermectin activates GIRK channels in a PIP ₂ -dependent, G _{βγ} -independent manner and an amino acid residue at the slide helix governs the activation. <i>Journal of Physiology</i> , 2017 , 595, 5895-5912	3.9	22
84	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. <i>Journal of Biological Chemistry</i> , 2017 , 292, 12971-12980	5.4	14
83	Stabilizing effects of G protein on the active conformation of adenosine A1 receptor differ depending on G protein type. <i>European Journal of Pharmacology</i> , 2016 , 788, 122-131	5.3	3
82	Sensitivities of Two Zebrafish TRPA1 Paralogs to Chemical and Thermal Stimuli Analyzed in Heterologous Expression Systems. <i>Chemical Senses</i> , 2016 , 41, 261-72	4.8	23
81	Retinal Attachment Instability Is Diversified among Mammalian Melanopsins. <i>Journal of Biological Chemistry</i> , 2015 , 290, 27176-27187	5.4	12
80	Kv4.2 and accessory dipeptidyl peptidase-like protein 10 (DPP10) subunit preferentially form a 4:2 (Kv4.2:DPP10) channel complex. <i>Journal of Biological Chemistry</i> , 2015 , 290, 22724-33	5.4	9
79	Auto-oxidation products of epigallocatechin gallate activate TRPA1 and TRPV1 in sensory neurons. <i>Chemical Senses</i> , 2015 , 40, 27-46	4.8	43
78	KCNQ1 channel modulation by KCNE proteins via the voltage-sensing domain. <i>Journal of Physiology</i> , 2015 , 593, 2617-25	3.9	25
77	On-site energy supply at synapses through monocarboxylate transporters maintains excitatory synaptic transmission. <i>Journal of Neuroscience</i> , 2014 , 34, 2605-17	6.6	45
76	Voltage- and ATP-dependent structural rearrangements of the P2X2 receptor associated with the gating of the pore. <i>Journal of Physiology</i> , 2014 , 592, 4657-76	3.9	3
75	Signal transmission within the P2X2 trimeric receptor. <i>Journal of General Physiology</i> , 2014 , 143, 761-82	3.4	10
74	Steric hindrance between S4 and S5 of the KCNQ1/KCNE1 channel hampers pore opening. <i>Nature Communications</i> , 2014 , 5, 4100	17.4	29
73	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. <i>Journal of Biological Chemistry</i> , 2014 , 289, 17597-609	5.4	22
72	Analyses of the effects of Gq protein on the activated states of the muscarinic M3 receptor and the purinergic P2Y1 receptor. <i>Physiological Reports</i> , 2013 , 1, e00134	2.6	6
71	Binding of Gq protein stabilizes the activated state of the muscarinic receptor type 1. <i>Neuropharmacology</i> , 2013 , 65, 173-81	5.5	9
70	The epithelial sodium channel in the Australian lungfish, <i>Neoceratodus forsteri</i> (Osteichthyes: Dipnoi). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012 , 279, 4795-802	4.4	14
69	Green tea polyphenol epigallocatechin gallate activates TRPA1 in an intestinal enteroendocrine cell line, STC-1. <i>Chemical Senses</i> , 2012 , 37, 167-77	4.8	46

68	The intra-molecular activation mechanisms of the dimeric metabotropic glutamate receptor 1 differ depending on the type of G proteins. <i>Neuropharmacology</i> , 2011 , 61, 832-41	5.5	13
67	Nano-environmental changes by KCNE proteins modify KCNQ channel function. <i>Channels</i> , 2011 , 5, 397-401	4.0	15
66	KCNQ1 subdomains involved in KCNE modulation revealed by an invertebrate KCNQ1 orthologue. <i>Journal of General Physiology</i> , 2011 , 138, 521-35	3.4	13
65	Identification and characterization of Cs(+)-permeable K(+) channel current in mouse cerebellar Purkinje cells in lobules 9 and 10 evoked by molecular layer stimulation. <i>European Journal of Neuroscience</i> , 2010 , 32, 736-48	3.5	6
64	Ligand-induced rearrangements of the GABA(B) receptor revealed by fluorescence resonance energy transfer. <i>Journal of Biological Chemistry</i> , 2010 , 285, 10291-9	5.4	29
63	A mammalian neural tissue opsin (Opsin 5) is a deep brain photoreceptor in birds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 15264-8	11.5	208
62	Stoichiometry of the KCNQ1 - KCNE1 ion channel complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18862-7	11.5	143
61	The Met268Pro mutation of mouse TRPA1 changes the effect of caffeine from activation to suppression. <i>Biophysical Journal</i> , 2010 , 99, 3609-18	2.9	37
60	Voltage- and [ATP]-dependent gating of the P2X(2) ATP receptor channel. <i>Journal of General Physiology</i> , 2009 , 133, 93-109	3.4	24
59	Effects of spinophilin on the function of RGS8 regulating signals from M2 and M3-mAChRs. <i>NeuroReport</i> , 2009 , 20, 1134-9	1.7	7
58	Structural rearrangements of the motor protein prestin revealed by fluorescence resonance energy transfer. <i>American Journal of Physiology - Cell Physiology</i> , 2009 , 297, C290-8	5.4	8
57	Reconstruction of the P2X(2) receptor reveals a vase-shaped structure with lateral tunnels above the membrane. <i>Structure</i> , 2009 , 17, 266-75	5.2	17
56	Dynamic aspects of functional regulation of the ATP receptor channel P2X2. <i>Journal of Physiology</i> , 2009 , 587, 5317-24	3.9	6
55	Functional and structural identification of amino acid residues of the P2X2 receptor channel critical for the voltage- and [ATP]-dependent gating. <i>Journal of Physiology</i> , 2009 , 587, 5801-18	3.9	16
54	Heteromeric assembly of inward rectifier channel subunit Kir2.1 with Kir3.1 and with Kir3.4. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 380, 832-7	3.4	11
53	Second coiled-coil domain of KCNQ channel controls current expression and subfamily specific heteromultimerization by salt bridge networks. <i>Journal of Physiology</i> , 2008 , 586, 2827-40	3.9	20
52	Regulatory role of C-terminus in the G-protein coupling of the metabotropic glutamate receptor 1. <i>Journal of Neurochemistry</i> , 2008 , 107, 1036-46	6	5
51	Spinophilin inhibits the binding of RGS8 to M1-mAChR but enhances the regulatory function of RGS8. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 377, 200-4	3.4	11

50	The motor protein prestin is a bullet-shaped molecule with inner cavities. <i>Journal of Biological Chemistry</i> , 2008 , 283, 1137-45	5.4	55
49	Caffeine activates mouse TRPA1 channels but suppresses human TRPA1 channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17373-8	11.5	92
48	KCNE1 and KCNE3 stabilize and/or slow voltage sensing S4 segment of KCNQ1 channel. <i>Journal of General Physiology</i> , 2007 , 130, 269-81	3.4	74
47	Coupling profile of the metabotropic glutamate receptor 1alpha is regulated by the C-terminal domain. <i>Molecular and Cellular Neurosciences</i> , 2007 , 34, 445-52	4.8	22
46	Dual signaling is differentially activated by different active states of the metabotropic glutamate receptor 1alpha. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 1124-8	11.5	75
45	Functional roles of charged amino acid residues on the wall of the cytoplasmic pore of Kir2.1. <i>Journal of General Physiology</i> , 2006 , 127, 401-19	3.4	53
44	The dynamin-related mouse mitochondrial GTPase OPA1 alters the structure of the mitochondrial inner membrane when exogenously introduced into COS-7 cells. <i>Neuroscience Research</i> , 2006 , 55, 123-33 ^{2.9}		18
43	1P009 Single particle analysis of purinergic P2X2 receptor(1. Protein structure and dynamics (I),Poster Session,Abstract,Meeting Program of EABS & BSJ 2006). <i>Seibutsu Butsuri</i> , 2006 , 46, S149	0	
42	Alternative splicing of RGS8 gene changes the binding property to the M1 muscarinic receptor to confer receptor type-specific Gq regulation. <i>Journal of Neurochemistry</i> , 2006 , 99, 1505-16	6	32
41	Regulation of the desensitization and ion selectivity of ATP-gated P2X2 channels by phosphoinositides. <i>Journal of Physiology</i> , 2006 , 576, 135-49	3.9	64
40	Visualization of the trimeric P2X2 receptor with a crown-capped extracellular domain. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 337, 998-1005	3.4	42
39	Molecular cloning and characterization of a new RGS protein of Medaka. <i>Gene</i> , 2005 , 345, 165-71	3.8	
38	Protein kinase C shifts the voltage dependence of KCNQ/M channels expressed in Xenopus oocytes. <i>Journal of Physiology</i> , 2005 , 569, 59-74	3.9	35
37	Towards a view of functioning dimeric metabotropic receptors. <i>Current Opinion in Neurobiology</i> , 2005 , 15, 289-95	7.6	55
36	OPA1 expression in the normal rat retina and optic nerve. <i>Journal of Comparative Neurology</i> , 2005 , 488, 1-10	3.4	40
35	International Union of Pharmacology. LIV. Nomenclature and molecular relationships of inwardly rectifying potassium channels. <i>Pharmacological Reviews</i> , 2005 , 57, 509-26	22.5	217
34	Ligand-induced rearrangement of the dimeric metabotropic glutamate receptor 1alpha. <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 637-42	17.6	152
33	Density-dependent changes of the pore properties of the P2X2 receptor channel. <i>Journal of Physiology</i> , 2004 , 558, 31-43	3.9	68

32	Functional identification of Gd ³⁺ binding site of metabotropic glutamate receptor 1alpha. <i>FEBS Letters</i> , 2003 , 545, 233-8	3.8	26
31	Effects of coexpression with Homer isoforms on the function of metabotropic glutamate receptor 1alpha. <i>Molecular and Cellular Neurosciences</i> , 2003 , 23, 157-68	4.8	32
30	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. <i>Journal of Physiology</i> , 2002 , 544, 665-77	3.9	32
29	Primary structure of a dynamin-related mouse mitochondrial GTPase and its distribution in brain, subcellular localization, and effect on mitochondrial morphology. <i>Journal of Biological Chemistry</i> , 2002 , 277, 15834-42	5.4	111
28	Ser165 in the second transmembrane region of the Kir2.1 channel determines its susceptibility to blockade by intracellular Mg ²⁺ . <i>Journal of General Physiology</i> , 2002 , 120, 677-93	3.4	31
27	Alternative splicing of RGS8 gene determines inhibitory function of receptor type-specific Gq signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 10138-43	11.5	49
26	Novel KCNJ2 mutation in familial periodic paralysis with ventricular dysrhythmia. <i>Circulation</i> , 2002 , 105, 2592-4	16.7	86
25	Control of rectification and permeation by two distinct sites after the second transmembrane region in Kir2.1 K ⁺ channel. <i>Journal of Physiology</i> , 2001 , 531, 645-60	3.9	122
24	Regulator of G protein signaling 8 (RGS8) requires its NH ₂ terminus for subcellular localization and acute desensitization of G protein-gated K ⁺ channels. <i>Journal of Biological Chemistry</i> , 2001 , 276, 5052-8	5.4	60
23	Characterization of heteromultimeric G protein-coupled inwardly rectifying potassium channels of the tunicate tadpole with a unique pore property. <i>Journal of Biological Chemistry</i> , 2001 , 276, 18529-39	5.4	5
22	Multiple PIP ₂ binding sites in Kir2.1 inwardly rectifying potassium channels. <i>FEBS Letters</i> , 2001 , 490, 49-53	5.3	100
21	RGS7 and RGS8 differentially accelerate G protein-mediated modulation of K ⁺ currents. <i>Journal of Biological Chemistry</i> , 1999 , 274, 9899-904	5.4	68
20	Chapter 11 Structure-Function Relationship of the Inward Rectifier Potassium Channel. <i>Current Topics in Membranes</i> , 1999 , 177-198	2.2	
19	Cyclosporin A selectively reduces the functional expression of Kir2.1 potassium channels in <i>Xenopus</i> oocytes. <i>FEBS Letters</i> , 1998 , 422, 307-10	3.8	13
18	Isolation of a cDNA for a novel 120-kDa GTP-binding protein expressed in motor neurons in the salmon brain. <i>FEBS Letters</i> , 1998 , 431, 231-5	3.8	5
17	Probing pore topology and conformational changes of Kir2.1 potassium channels by cysteine scanning mutagenesis. <i>FEBS Letters</i> , 1998 , 435, 69-73	3.8	21
16	RGS8 accelerates G-protein-mediated modulation of K ⁺ currents. <i>Nature</i> , 1997 , 390, 525-9	50.4	197
15	Localization and developmental changes of the expression of two inward rectifying K ⁺ -channel proteins in the rat brain. <i>Brain Research</i> , 1997 , 750, 251-63	3.7	38

14	Cloning and characterization of a bifunctional metabotropic receptor activated by both extracellular calcium and glutamate. <i>FEBS Letters</i> , 1996 , 392, 71-6	3.8	24
13	Identification of domains of the cardiac inward rectifying K ⁺ channel, CIR, involved in the heteromultimer formation and in the G-protein gating. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 227, 240-7	3.4	19
12	Two aspects of the inward rectification mechanism. Effects of cytoplasmic blockers and extracellular K ⁺ on the inward rectifier K ⁺ channel. <i>International Heart Journal</i> , 1996 , 37, 631-41		8
11	A weakly inward rectifying potassium channel of the salmon brain. Glutamate 179 in the second transmembrane domain is insufficient for strong rectification. <i>Journal of Biological Chemistry</i> , 1996 , 271, 15729-35	5.4	22
10	Functional Expression of GnRH Receptors in Xenopus Oocytes Injected with Salmon Brain RNA.. <i>Journal of Reproduction and Development</i> , 1996 , 42, 283-289	2.1	1
9	Primary structure and biophysical properties of inward rectifying K ⁺ channel family. <i>Developments in Cardiovascular Medicine</i> , 1996 , 131-139		
8	Primary structure and functional expression of a mouse inward rectifier K ⁺ channel and rat G-protein-coupled muscarinic K ⁺ channel.. <i>Japanese Journal of Electrocardiology</i> , 1995 , 15, 106-113	0	
7	Towards the elucidation of the structural-functional relationship of inward rectifying K ⁺ channel family. <i>Neuroscience Research</i> , 1994 , 21, 109-17	2.9	16
6	Primary structure and functional expression of a rat G-protein-coupled muscarinic potassium channel. <i>Nature</i> , 1993 , 364, 802-6	50.4	581
5	Primary structure and functional expression of a mouse inward rectifier potassium channel. <i>Nature</i> , 1993 , 362, 127-33	50.4	976
4	Usefulness of chironomid larvae as indicators of water quality. <i>Medical Entomology and Zoology</i> , 1989 , 40, 269-283	0.6	13
3	POTASSIUM CURRENTS INDUCED BY MUSCARINIC RECEPTOR ACTIVATION IN THE RAT ADRENAL CHROMAFFIN CELL . <i>Biomedical Research</i> , 1989 , 10, 71-81	1.5	4
2	Intracellular analysis of masticatory rhythm of trigeminal motoneurons. <i>Japanese Journal of Oral Biology</i> , 1978 , 20, 144-153		
1	Intrinsic Gating Behavior of Voltage-Gated Sodium Channels Predetermines Regulation by Auxiliary Subunits		1