

Harley T Kurata

List of Publications by Citations

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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.

65
papers

1,437
citations

20
h-index

36
g-index

69
ext. papers

1,705
ext. citations

5.5
avg. IF

4.47
L-index

#	Paper	IF	Citations
65	A structural interpretation of voltage-gated potassium channel inactivation. <i>Progress in Biophysics and Molecular Biology</i> , 2006 , 92, 185-208	4.7	139
64	Characterization of polyhormonal insulin-producing cells derived in vitro from human embryonic stem cells. <i>Stem Cell Research</i> , 2014 , 12, 194-208	1.6	108
63	Differential structure of atrial and ventricular KATP: atrial KATP channels require SUR1. <i>Circulation Research</i> , 2008 , 103, 1458-65	15.7	96
62	Secondary consequences of beta cell inexcitability: identification and prevention in a murine model of K(ATP)-induced neonatal diabetes mellitus. <i>Cell Metabolism</i> , 2009 , 9, 140-51	24.6	81
61	The polyamine binding site in inward rectifier K ⁺ channels. <i>Journal of General Physiology</i> , 2006 , 127, 467-80	3.0	74
60	Atomic basis for therapeutic activation of neuronal potassium channels. <i>Nature Communications</i> , 2015 , 6, 8116	17.4	55
59	Molecular basis of inward rectification: polyamine interaction sites located by combined channel and ligand mutagenesis. <i>Journal of General Physiology</i> , 2004 , 124, 541-54	3.4	54
58	Polyamine transport by the polyspecific organic cation transporters OCT1, OCT2, and OCT3. <i>Molecular Pharmaceutics</i> , 2013 , 10, 1450-8	5.6	53
57	Dual role of K ATP channel C-terminal motif in membrane targeting and metabolic regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 16669-74	11.5	46
56	Inward rectifiers and their regulation by endogenous polyamines. <i>Frontiers in Physiology</i> , 2014 , 5, 325	4.6	42
55	Hydrogen bonds as molecular timers for slow inactivation in voltage-gated potassium channels. <i>ELife</i> , 2013 , 2, e01289	8.9	40
54	The role of the cytoplasmic pore in inward rectification of Kir2.1 channels. <i>Journal of General Physiology</i> , 2007 , 130, 145-55	3.4	37
53	Altered state dependence of c-type inactivation in the long and short forms of human Kv1.5. <i>Journal of General Physiology</i> , 2001 , 118, 315-32	3.4	35
52	Amino-terminal determinants of U-type inactivation of voltage-gated K ⁺ channels. <i>Journal of Biological Chemistry</i> , 2002 , 277, 29045-53	5.4	35
51	Asymmetric functional contributions of acidic and aromatic side chains in sodium channel voltage-sensor domains. <i>Journal of General Physiology</i> , 2014 , 143, 645-56	3.4	28
50	PIP2 mediates functional coupling and pharmacology of neuronal KCNQ channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E9702-E9711	11.5	24
49	Sequence determinants of subtype-specific actions of KCNQ channel openers. <i>Journal of Physiology</i> , 2017 , 595, 663-676	3.9	22

48	DEND mutation in Kir6.2 (KCNJ11) reveals a flexible N-terminal region critical for ATP-sensing of the KATP channel. <i>Biophysical Journal</i> , 2008 , 95, 4689-97	2.9	22
47	Complex rectification of Müller cell Kir currents. <i>Glia</i> , 2008 , 56, 775-90	9	21
46	Multiparameter screening reveals a role for Na ⁺ channels in cytokine-induced cell death. <i>Molecular Endocrinology</i> , 2014 , 28, 406-17		20
45	Locale and chemistry of spermine binding in the archetypal inward rectifier Kir2.1. <i>Journal of General Physiology</i> , 2010 , 135, 495-508	3.4	20
44	Polyamine permeation and rectification of Kir4.1 channels. <i>Channels</i> , 2007 , 1, 172-8	3	20
43	An activation gating switch in Kv1.2 is localized to a threonine residue in the S2-S3 linker. <i>Biophysical Journal</i> , 2007 , 93, 4173-86	2.9	19
42	Separation of P/C- and U-type inactivation pathways in Kv1.5 potassium channels. <i>Journal of Physiology</i> , 2005 , 568, 31-46	3.9	19
41	Rapid induction of P/C-type inactivation is the mechanism for acid-induced K ⁺ current inhibition. <i>Journal of General Physiology</i> , 2003 , 121, 215-25	3.4	18
40	Scanning the topography of polyamine blocker binding in an inwardly rectifying potassium channel. <i>Journal of Biological Chemistry</i> , 2013 , 288, 6591-601	5.4	16
39	Sensory Neurons of the Dorsal Root Ganglia Become Hyperexcitable in a T-Cell-Mediated MOG-EAE Model of Multiple Sclerosis. <i>ENeuro</i> , 2019 , 6,	3.9	16
38	KCNE1 induces fenestration in the Kv7.1/KCNE1 channel complex that allows for highly specific pharmacological targeting. <i>Nature Communications</i> , 2016 , 7, 12795	17.4	16
37	Slc7a5 regulates Kv1.2 channels and modifies functional outcomes of epilepsy-linked channel mutations. <i>Nature Communications</i> , 2018 , 9, 4417	17.4	16
36	Congenital hyperinsulinism and glucose hypersensitivity in homozygous and heterozygous carriers of Kir6.2 (KCNJ11) mutation V290M mutation: K(ATP) channel inactivation mechanism and clinical management. <i>Diabetes</i> , 2011 , 60, 209-17	0.9	15
35	HMR 1098 is not an SUR isotype specific inhibitor of heterologous or sarcolemmal K ATP channels. <i>Journal of Molecular and Cellular Cardiology</i> , 2011 , 50, 552-60	5.8	14
34	Voltage-dependent gating in a "voltage sensor-less" ion channel. <i>PLoS Biology</i> , 2010 , 8, e1000315	9.7	14
33	Probing the molecular basis of hERG drug block with unnatural amino acids. <i>Scientific Reports</i> , 2018 , 8, 289	4.9	13
32	A novel mechanism for fine-tuning open-state stability in a voltage-gated potassium channel. <i>Nature Communications</i> , 2013 , 4, 1784	17.4	13
31	Molecular mechanisms of chloroquine inhibition of heterologously expressed Kir6.2/SUR2A channels. <i>Molecular Pharmacology</i> , 2012 , 82, 803-13	4.3	13

30	Blocker protection by short spermine analogs: refined mapping of the spermine binding site in a Kir channel. <i>Biophysical Journal</i> , 2008 , 95, 3827-39	2.9	13
29	NH2-terminal inactivation peptide binding to C-type-inactivated Kv channels. <i>Journal of General Physiology</i> , 2004 , 123, 505-20	3.4	13
28	Four drug-sensitive subunits are required for maximal effect of a voltage sensor-targeted KCNQ opener. <i>Journal of General Physiology</i> , 2018 , 150, 1432-1443	3.4	12
27	Use-dependent activation of neuronal Kv1.2 channel complexes. <i>Journal of Neuroscience</i> , 2015 , 35, 3515-24	3.4	11
26	Pore- and voltage sensor-targeted KCNQ openers have distinct state-dependent actions. <i>Journal of General Physiology</i> , 2018 , 150, 1722-1734	3.4	11
25	Decomposition of slide helix contributions to ATP-dependent inhibition of Kir6.2 channels. <i>Journal of Biological Chemistry</i> , 2013 , 288, 23038-49	5.4	10
24	One drug-sensitive subunit is sufficient for a near-maximal retigabine effect in KCNQ channels. <i>Journal of General Physiology</i> , 2018 , 150, 1421-1431	3.4	9
23	Extracellular redox sensitivity of Kv1.2 potassium channels. <i>Scientific Reports</i> , 2017 , 7, 9142	4.9	8
22	Endoplasmic reticulum stress in the dorsal root ganglia regulates large-conductance potassium channels and contributes to pain in a model of multiple sclerosis. <i>FASEB Journal</i> , 2020 , 34, 12577-12598	0.9	8
21	Determinants of frequency-dependent regulation of Kv1.2-containing potassium channels. <i>Channels</i> , 2016 , 10, 158-66	3	7
20	A Conserved Residue Cluster That Governs Kinetics of ATP-dependent Gating of Kir6.2 Potassium Channels. <i>Journal of Biological Chemistry</i> , 2015 , 290, 15450-15461	5.4	6
19	Alternating hypoglycemia and hyperglycemia in a toddler with a homozygous p.R1419H ABCC8 mutation: an unusual clinical picture. <i>Journal of Pediatric Endocrinology and Metabolism</i> , 2015 , 28, 345-51	1.6	6
18	Forced gating motions by a substituted titratable side chain at the bundle crossing of a potassium channel. <i>Journal of Biological Chemistry</i> , 2011 , 286, 36686-93	5.4	6
17	A structure-based computational workflow to predict liability and binding modes of small molecules to hERG. <i>Scientific Reports</i> , 2020 , 10, 16262	4.9	6
16	Functional and behavioral signatures of Kv7 activator drug subtypes. <i>Epilepsia</i> , 2020 , 61, 1678-1690	6.4	6
15	L-type amino acid transporter 1, LAT1, in growth hormone-producing pituitary tumor cells. <i>Molecular and Cellular Endocrinology</i> , 2020 , 515, 110868	4.4	5
14	Atom-by-atom engineering of voltage-gated ion channels: magnified insights into function and pharmacology. <i>Journal of Physiology</i> , 2015 , 593, 2627-34	3.9	5
13	Polyamine block of inwardly rectifying potassium channels. <i>Methods in Molecular Biology</i> , 2011 , 720, 113-26	1.4	5

12	Slc7a5 alters Kv β -mediated regulation of Kv1.2. <i>Journal of General Physiology</i> , 2020 , 152,	3-4	4
11	Heteromeric Assembly of Truncated Neuronal Kv7 Channels: Implications for Neurologic Disease and Pharmacotherapy. <i>Molecular Pharmacology</i> , 2020 , 98, 192-202	4-3	3
10	Control of Slc7a5 sensitivity by the voltage-sensing domain of Kv1 channels. <i>ELife</i> , 2020 , 9,	8.9	2
9	Chemical regulation of Kv7 channels: Diverse scaffolds, sites, and mechanisms of action. <i>Journal of General Physiology</i> , 2020 , 152,	3-4	2
8	Phenotypic expansion of CACNA1C-associated disorders to include isolated neurological manifestations. <i>Genetics in Medicine</i> , 2021 , 23, 1922-1932	8.1	2
7	Paradoxical activation of an inwardly rectifying potassium channel mutant by spermine: "(b)locking" open the bundle crossing gate. <i>Molecular Pharmacology</i> , 2013 , 84, 572-81	4-3	1
6	Control of Slc7a5 sensitivity by the voltage-sensing domain of Kv1 channels		1
5	Emerging complexities of lipid regulation of potassium channels. <i>Journal of General Physiology</i> , 2016 , 148, 201-5	3-4	1
4	Familial neonatal seizures caused by the Kv7.3 selectivity filter mutation T313I. <i>Epilepsia Open</i> , 2020 , 5, 562-573	4	0
3	Site-Directed Unnatural Amino Acid Mutagenesis to Investigate Potassium Channel Pharmacology in <i>Xenopus laevis</i> Oocytes. <i>Methods in Molecular Biology</i> , 2018 , 1684, 253-263	1.4	
2	Polyamine Block of Kir Channels 2006 , 383-396		
1	Polyamine Block of Inwardly Rectifying Potassium (Kir) Channels 2015 , 217-228		