Harley T Kurata

List of Publications by Year in Descending Order

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	Phenotypic expansion of CACNA1C-associated disorders to include isolated neurological manifestations. *Genetics in Medicine*, **2021**, 23, 1922-1932	8.1	2
64	Familial neonatal seizures caused by the Kv7.3 selectivity filter mutation T313I. *Epilepsia Open*, **2020**, 5, 562-573	4	0
63	Heteromeric Assembly of Truncated Neuronal Kv7 Channels: Implications for Neurologic Disease and Pharmacotherapy. *Molecular Pharmacology*, **2020**, 98, 192-202	4.3	3
62	L-type amino acid transporter 1, LAT1, in growth hormone-producing pituitary tumor cells. *Molecular and Cellular Endocrinology*, **2020**, 515, 110868	4.4	5
61	Control of Slc7a5 sensitivity by the voltage-sensing domain of Kv1 channels. *ELife*, **2020**, 9,	8.9	2
60	Slc7a5 alters Kv□mediated regulation of Kv1.2. *Journal of General Physiology*, **2020**, 152,	3.4	4
59	Chemical regulation of Kv7 channels: Diverse scaffolds, sites, and mechanisms of action. *Journal of General Physiology*, **2020**, 152,	3.4	2
58	A structure-based computational workflow to predict liability and binding modes of small molecules to hERG. *Scientific Reports*, **2020**, 10, 16262	4.9	6
57	Endoplasmic reticulum stress in the dorsal root ganglia regulates large-conductance potassium channels and contributes to pain in a model of multiple sclerosis. *FASEB Journal*, **2020**, 34, 12577-12598	0.9	8
56	Functional and behavioral signatures of Kv7 activator drug subtypes. *Epilepsia*, **2020**, 61, 1678-1690	6.4	6
55	Sensory Neurons of the Dorsal Root Ganglia Become Hyperexcitable in a T-Cell-Mediated MOG-EAE Model of Multiple Sclerosis. *ENeuro*, **2019**, 6,	3.9	16
54	Probing the molecular basis of hERG drug block with unnatural amino acids. *Scientific Reports*, **2018**, 8, 289	4.9	13
53	Site-Directed Unnatural Amino Acid Mutagenesis to Investigate Potassium Channel Pharmacology in Xenopus laevis Oocytes. *Methods in Molecular Biology*, **2018**, 1684, 253-263	1.4	
52	Slc7a5 regulates Kv1.2 channels and modifies functional outcomes of epilepsy-linked channel mutations. *Nature Communications*, **2018**, 9, 4417	17.4	16
51	Pore- and voltage sensor-targeted KCNQ openers have distinct state-dependent actions. *Journal of General Physiology*, **2018**, 150, 1722-1734	3.4	11
50	One drug-sensitive subunit is sufficient for a near-maximal retigabine effect in KCNQ channels. *Journal of General Physiology*, **2018**, 150, 1421-1431	3.4	9
49	Four drug-sensitive subunits are required for maximal effect of a voltage sensor-targeted KCNQ opener. *Journal of General Physiology*, **2018**, 150, 1432-1443	3.4	12

48	Extracellular redox sensitivity of Kv1.2 potassium channels. *Scientific Reports*, **2017**, 7, 9142	4.9	8
47	PIP2 mediates functional coupling and pharmacology of neuronal KCNQ channels. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E9702-E9711	11.5	24
46	Sequence determinants of subtype-specific actions of KCNQ channel openers. *Journal of Physiology* , **2017**, 595, 663-676	3.9	22
45	Determinants of frequency-dependent regulation of Kv1.2-containing potassium channels. *Channels*, **2016**, 10, 158-66	3	7
44	KCNE1 induces fenestration in the Kv7.1/KCNE1 channel complex that allows for highly specific pharmacological targeting. *Nature Communications*, **2016**, 7, 12795	17.4	16
43	Emerging complexities of lipid regulation of potassium channels. *Journal of General Physiology*, **2016**, 148, 201-5	3.4	1
42	Use-dependent activation of neuronal Kv1.2 channel complexes. *Journal of Neuroscience*, **2015**, 35, 351524	6.8	11
41	A Conserved Residue Cluster That Governs Kinetics of ATP-dependent Gating of Kir6.2 Potassium Channels. *Journal of Biological Chemistry*, **2015**, 290, 15450-15461	5.4	6
40	Atomic basis for therapeutic activation of neuronal potassium channels. *Nature Communications*, **2015**, 6, 8116	17.4	55
39	Alternating hypoglycemia and hyperglycemia in a toddler with a homozygous p.R1419H ABCC8 mutation: an unusual clinical picture. *Journal of Pediatric Endocrinology and Metabolism*, **2015**, 28, 345-51	1.6	6
38	Atom-by-atom engineering of voltage-gated ion channels: magnified insights into function and pharmacology. *Journal of Physiology*, **2015**, 593, 2627-34	3.9	5
37	Polyamine Block of Inwardly Rectifying Potassium (Kir) Channels **2015**, 217-228		
36	Asymmetric functional contributions of acidic and aromatic side chains in sodium channel voltage-sensor domains. *Journal of General Physiology*, **2014**, 143, 645-56	3.4	28
35	Inward rectifiers and their regulation by endogenous polyamines. *Frontiers in Physiology*, **2014**, 5, 325	4.6	42
34	Multiparameter screening reveals a role for Na+ channels in cytokine-induced □cell death. *Molecular Endocrinology*, **2014**, 28, 406-17		20
33	Characterization of polyhormonal insulin-producing cells derived in vitro from human embryonic stem cells. *Stem Cell Research*, **2014**, 12, 194-208	1.6	108
32	Polyamine transport by the polyspecific organic cation transporters OCT1, OCT2, and OCT3. *Molecular Pharmaceutics*, **2013**, 10, 1450-8	5.6	53
31	Scanning the topography of polyamine blocker binding in an inwardly rectifying potassium channel. *Journal of Biological Chemistry*, **2013**, 288, 6591-601	5.4	16

30	Paradoxical activation of an inwardly rectifying potassium channel mutant by spermine: "(b)locking" open the bundle crossing gate. *Molecular Pharmacology*, **2013**, 84, 572-81	4.3	1
29	Decomposition of slide helix contributions to ATP-dependent inhibition of Kir6.2 channels. *Journal of Biological Chemistry*, **2013**, 288, 23038-49	5.4	10
28	A novel mechanism for fine-tuning open-state stability in a voltage-gated potassium channel. *Nature Communications*, **2013**, 4, 1784	17.4	13
27	Hydrogen bonds as molecular timers for slow inactivation in voltage-gated potassium channels. *ELife*, **2013**, 2, e01289	8.9	40
26	Molecular mechanisms of chloroquine inhibition of heterologously expressed Kir6.2/SUR2A channels. *Molecular Pharmacology*, **2012**, 82, 803-13	4.3	13
25	HMR 1098 is not an SUR isotype specific inhibitor of heterologous or sarcolemmal K ATP channels. *Journal of Molecular and Cellular Cardiology*, **2011**, 50, 552-60	5.8	14
24	Forced gating motions by a substituted titratable side chain at the bundle crossing of a potassium channel. *Journal of Biological Chemistry*, **2011**, 286, 36686-93	5.4	6
23	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. *Diabetes*, **2011**, 60, 209-17	0.9	15
22	Polyamine block of inwardly rectifying potassium channels. *Methods in Molecular Biology*, **2011**, 720, 113-26	1.4	5
21	Locale and chemistry of spermine binding in the archetypal inward rectifier Kir2.1. *Journal of General Physiology*, **2010**, 135, 495-508	3.4	20
20	Voltage-dependent gating in a "voltage sensor-less" ion channel. *PLoS Biology*, **2010**, 8, e1000315	9.7	14
19	Dual role of K ATP channel C-terminal motif in membrane targeting and metabolic regulation. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 16669-74	11.5	46
18	Secondary consequences of beta cell inexcitability: identification and prevention in a murine model of K(ATP)-induced neonatal diabetes mellitus. *Cell Metabolism*, **2009**, 9, 140-51	24.6	81
17	Blocker protection by short spermine analogs: refined mapping of the spermine binding site in a Kir channel. *Biophysical Journal*, **2008**, 95, 3827-39	2.9	13
16	DEND mutation in Kir6.2 (KCNJ11) reveals a flexible N-terminal region critical for ATP-sensing of the KATP channel. *Biophysical Journal*, **2008**, 95, 4689-97	2.9	22
15	Differential structure of atrial and ventricular KATP: atrial KATP channels require SUR1. *Circulation Research*, **2008**, 103, 1458-65	15.7	96
14	Complex rectification of MÜller cell Kir currents. *Glia*, **2008**, 56, 775-90	9	21
13	An activation gating switch in Kv1.2 is localized to a threonine residue in the S2-S3 linker. *Biophysical Journal*, **2007**, 93, 4173-86	2.9	19

12	Polyamine permeation and rectification of Kir4.1 channels. *Channels*, **2007**, 1, 172-8	3	20
11	The role of the cytoplasmic pore in inward rectification of Kir2.1 channels. *Journal of General Physiology*, **2007**, 130, 145-55	3.4	37
10	A structural interpretation of voltage-gated potassium channel inactivation. *Progress in Biophysics and Molecular Biology*, **2006**, 92, 185-208	4.7	139
9	The polyamine binding site in inward rectifier K+ channels. *Journal of General Physiology*, **2006**, 127, 467-80	3.4	74
8	Polyamine Block of Kir Channels **2006**, 383-396		
7	Separation of P/C- and U-type inactivation pathways in Kv1.5 potassium channels. *Journal of Physiology*, **2005**, 568, 31-46	3.9	19
6	Molecular basis of inward rectification: polyamine interaction sites located by combined channel and ligand mutagenesis. *Journal of General Physiology*, **2004**, 124, 541-54	3.4	54
5	NH2-terminal inactivation peptide binding to C-type-inactivated Kv channels. *Journal of General Physiology*, **2004**, 123, 505-20	3.4	13
4	Rapid induction of P/C-type inactivation is the mechanism for acid-induced K+ current inhibition. *Journal of General Physiology*, **2003**, 121, 215-25	3.4	18
3	Amino-terminal determinants of U-type inactivation of voltage-gated K+ channels. *Journal of Biological Chemistry*, **2002**, 277, 29045-53	5.4	35
2	Altered state dependence of c-type inactivation in the long and short forms of human Kv1.5. *Journal of General Physiology*, **2001**, 118, 315-32	3.4	35
1	Control of Slc7a5 sensitivity by the voltage-sensing domain of Kv1 channels		1