

Harley T Kurata

List of Publications by Year in descending order

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65
papers

1,895
citations

279487

23
h-index

276539

41
g-index

69
all docs

69
docs citations

69
times ranked

2272
citing authors

#	ARTICLE	IF	CITATIONS
1	A structural interpretation of voltage-gated potassium channel inactivation. <i>Progress in Biophysics and Molecular Biology</i> , 2006, 92, 185-208.	1.4	169
2	Characterization of polyhormonal insulin-producing cells derived in vitro from human embryonic stem cells. <i>Stem Cell Research</i> , 2014, 12, 194-208.	0.3	133
3	Differential Structure of Atrial and Ventricular K ^{ATP} . <i>Circulation Research</i> , 2008, 103, 1458-1465.	2.0	118
4	Secondary Consequences of \hat{I}^2 Cell Inexcitability: Identification and Prevention in a Murine Model of KATP-Induced Neonatal Diabetes Mellitus. <i>Cell Metabolism</i> , 2009, 9, 140-151.	7.2	92
5	The Polyamine Binding Site in Inward Rectifier K ⁺ Channels. <i>Journal of General Physiology</i> , 2006, 127, 467-480.	0.9	80
6	Polyamine Transport by the Polyspecific Organic Cation Transporters OCT1, OCT2, and OCT3. <i>Molecular Pharmaceutics</i> , 2013, 10, 1450-1458.	2.3	71
7	Molecular Basis of Inward Rectification. <i>Journal of General Physiology</i> , 2004, 124, 541-554.	0.9	68
8	Atomic basis for therapeutic activation of neuronal potassium channels. <i>Nature Communications</i> , 2015, 6, 8116.	5.8	67
9	Inward rectifiers and their regulation by endogenous polyamines. <i>Frontiers in Physiology</i> , 2014, 5, 325.	1.3	63
10	Hydrogen bonds as molecular timers for slow inactivation in voltage-gated potassium channels. <i>ELife</i> , 2013, 2, e01289.	2.8	60
11	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, 16669-16674.	3.3	55
12	The Role of the Cytoplasmic Pore in Inward Rectification of Kir2.1 Channels. <i>Journal of General Physiology</i> , 2007, 130, 145-155.	0.9	43
13	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.	3.3	42
14	Asymmetric functional contributions of acidic and aromatic side chains in sodium channel voltage-sensor domains. <i>Journal of General Physiology</i> , 2014, 143, 645-656.	0.9	38
15	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, 315-332.	0.9	36
16	Amino-terminal Determinants of U-type Inactivation of Voltage-gated K ⁺ Channels. <i>Journal of Biological Chemistry</i> , 2002, 277, 29045-29053.	1.6	36
17	An Activation Gating Switch in Kv1.2 Is Localized to a Threonine Residue in the S2-S3 Linker. <i>Biophysical Journal</i> , 2007, 93, 4173-4186.	0.2	35
18	Sequence determinants of subtype-specific actions of KCNQ channel openers. <i>Journal of Physiology</i> , 2017, 595, 663-676.	1.3	31

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19	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, ENEURO.0024-19.2019.	0.9	30
20	Polyamine Permeation and Rectification of Kir4.1 Channels. <i>Channels</i> , 2007, 1, 172-178.	1.5	28
21	Complex rectification of Müller cell Kir currents. <i>Glia</i> , 2008, 56, 775-790.	2.5	27
22	Separation of P/C- and U-type inactivation pathways in Kv1.5 potassium channels. <i>Journal of Physiology</i> , 2005, 568, 31-46.	1.3	25
23	Locale and chemistry of spermine binding in the archetypal inward rectifier Kir2.1. <i>Journal of General Physiology</i> , 2010, 135, 495-508.	0.9	25
24	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, 4689-4697.	0.2	24
25	Slc7a5 regulates Kv1.2 channels and modifies functional outcomes of epilepsy-linked channel mutations. <i>Nature Communications</i> , 2018, 9, 4417.	5.8	24
26	Multiparameter Screening Reveals a Role for Na ⁺ Channels in Cytokine-Induced β -Cell Death. <i>Molecular Endocrinology</i> , 2014, 28, 406-417.	3.7	23
27	Rapid Induction of P/C-type Inactivation Is the Mechanism for Acid-induced K ⁺ Current Inhibition. <i>Journal of General Physiology</i> , 2003, 121, 215-225.	0.9	21
28	Blocker Protection by Short Spermine Analogs: Refined Mapping of the Spermine Binding Site in a Kir Channel. <i>Biophysical Journal</i> , 2008, 95, 3827-3839.	0.2	21
29	Voltage-Dependent Gating in a Voltage Sensor-Less Ion Channel. <i>PLoS Biology</i> , 2010, 8, e1000315.	2.6	21
30	Scanning the Topography of Polyamine Blocker Binding in an Inwardly Rectifying Potassium Channel*. <i>Journal of Biological Chemistry</i> , 2013, 288, 6591-6601.	1.6	21
31	KCNE1 induces fenestration in the Kv7.1/KCNE1 channel complex that allows for highly specific pharmacological targeting. <i>Nature Communications</i> , 2016, 7, 12795.	5.8	21
32	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.	0.2	20
33	HMR 1098 is not an SUR isotype specific inhibitor of heterologous or sarcolemmal KATP channels. <i>Journal of Molecular and Cellular Cardiology</i> , 2011, 50, 552-560.	0.9	19
34	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.	0.9	19
35	Congenital Hyperinsulinism and Glucose Hypersensitivity in Homozygous and Heterozygous Carriers of Kir6.2 (KCNJ11) Mutation V290M Mutation. <i>Diabetes</i> , 2011, 60, 209-217.	0.3	17
36	Molecular Mechanisms of Chloroquine Inhibition of Heterologously Expressed Kir6.2/SUR2A Channels. <i>Molecular Pharmacology</i> , 2012, 82, 803-813.	1.0	16

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37	Probing the molecular basis of hERG drug block with unnatural amino acids. <i>Scientific Reports</i> , 2018, 8, 289.	1.6	16
38	Pore- and voltage sensor-targeted KCNQ openers have distinct state-dependent actions. <i>Journal of General Physiology</i> , 2018, 150, 1722-1734.	0.9	16
39	Functional and behavioral signatures of Kv7 activator drug subtypes. <i>Epilepsia</i> , 2020, 61, 1678-1690.	2.6	16
40	Phenotypic expansion of CACNA1C-associated disorders to include isolated neurological manifestations. <i>Genetics in Medicine</i> , 2021, 23, 1922-1932.	1.1	16
41	A novel mechanism for fine-tuning open-state stability in a voltage-gated potassium channel. <i>Nature Communications</i> , 2013, 4, 1784.	5.8	15
42	Use-Dependent Activation of Neuronal Kv1.2 Channel Complexes. <i>Journal of Neuroscience</i> , 2015, 35, 3515-3524.	1.7	15
43	Extracellular redox sensitivity of Kv1.2 potassium channels. <i>Scientific Reports</i> , 2017, 7, 9142.	1.6	15
44	A structure-based computational workflow to predict liability and binding modes of small molecules to hERG. <i>Scientific Reports</i> , 2020, 10, 16262.	1.6	15
45	NH2-terminal Inactivation Peptide Binding to C-type-inactivated Kv Channels. <i>Journal of General Physiology</i> , 2004, 123, 505-520.	0.9	14
46	L-type amino acid transporter 1, LAT1, in growth hormone-producing pituitary tumor cells. <i>Molecular and Cellular Endocrinology</i> , 2020, 515, 110868.	1.6	14
47	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.	0.9	13
48	Decomposition of Slide Helix Contributions to ATP-dependent Inhibition of Kir6.2 Channels. <i>Journal of Biological Chemistry</i> , 2013, 288, 23038-23049.	1.6	12
49	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.	0.4	10
50	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.	1.6	8
51	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, 36686-36693.	1.6	7
52	Atom-by-atom engineering of voltage-gated ion channels: Magnified insights into function and pharmacology. <i>Journal of Physiology</i> , 2015, 593, 2627-2634.	1.3	7
53	Determinants of frequency-dependent regulation of Kv1.2-containing potassium channels. <i>Channels</i> , 2016, 10, 158-166.	1.5	7
54	Heteromeric Assembly of Truncated Neuronal Kv7 Channels: Implications for Neurologic Disease and Pharmacotherapy. <i>Molecular Pharmacology</i> , 2020, 98, 192-202.	1.0	7

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55	Polyamine Block of Inwardly Rectifying Potassium Channels. <i>Methods in Molecular Biology</i> , 2011, 720, 113-126.	0.4	7
56	Slc7a5 alters Kv ^{1.2} -mediated regulation of Kv1.2. <i>Journal of General Physiology</i> , 2020, 152, .	0.9	7
57	Chemical regulation of Kv7 channels: Diverse scaffolds, sites, and mechanisms of action. <i>Journal of General Physiology</i> , 2020, 152, .	0.9	5
58	Familial neonatal seizures caused by the Kv7.3 selectivity filter mutation T313I. <i>Epilepsia Open</i> , 2020, 5, 562-573.	1.3	4
59	Control of Slc7a5 sensitivity by the voltage-sensing domain of Kv1 channels. <i>ELife</i> , 2020, 9, .	2.8	4
60	Paradoxical Activation of an Inwardly Rectifying Potassium Channel Mutant by Spermine: "(B)locking" Open the Bundle Crossing Gate. <i>Molecular Pharmacology</i> , 2013, 84, 572-581.	1.0	3
61	Emerging complexities of lipid regulation of potassium channels. <i>Journal of General Physiology</i> , 2016, 148, 201-205.	0.9	1
62	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.	0.4	0
63	Unconventional voltage sensing in an inwardly rectifying potassium channel. <i>Journal of General Physiology</i> , 2021, 153, .	0.9	0
64	Polyamine Block of Kir Channels. , 2006, , 383-396.		0
65	Polyamine Block of Inwardly Rectifying Potassium (Kir) Channels. , 2015, , 217-228.		0