

Kevin Wickman

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.

102
papers

5,793
citations

44
h-index

75
g-index

109
ext. papers

6,400
ext. citations

7.7
avg, IF

5.32
L-index

#	Paper	IF	Citations
102	Recombinant G-protein beta gamma-subunits activate the muscarinic-gated atrial potassium channel. <i>Nature</i> , 1994 , 368, 255-7	50.4	421
101	New mammalian chloride channel identified by expression cloning. <i>Nature</i> , 1992 , 356, 238-41	50.4	330
100	Abnormal heart rate regulation in GIRK4 knockout mice. <i>Neuron</i> , 1998 , 20, 103-14	13.9	329
99	Vesicular dopamine release elicits an inhibitory postsynaptic current in midbrain dopamine neurons. <i>Neuron</i> , 2004 , 42, 939-46	13.9	263
98	Evaluation of the role of I(KACh) in atrial fibrillation using a mouse knockout model. <i>Journal of the American College of Cardiology</i> , 2001 , 37, 2136-43	15.1	197
97	G beta gamma binds directly to the G protein-gated K+ channel, IKACH. <i>Journal of Biological Chemistry</i> , 1995 , 270, 29059-62	5.4	191
96	RGS2 modulates coupling between GABAB receptors and GIRK channels in dopamine neurons of the ventral tegmental area. <i>Nature Neuroscience</i> , 2007 , 10, 1559-68	25.5	169
95	Molecular and cellular diversity of neuronal G-protein-gated potassium channels. <i>Journal of Neuroscience</i> , 2005 , 25, 11468-78	6.6	161
94	G-protein-gated potassium channels containing Kir3.2 and Kir3.3 subunits mediate the acute inhibitory effects of opioids on locus ceruleus neurons. <i>Journal of Neuroscience</i> , 2002 , 22, 4328-34	6.6	155
93	Using knockout and transgenic mice to study neurophysiology and behavior. <i>Physiological Reviews</i> , 1998 , 78, 1131-63	47.9	155
92	The heart rate decrease caused by acute FTY720 administration is mediated by the G protein-gated potassium channel I. <i>American Journal of Transplantation</i> , 2005 , 5, 529-36	8.7	143
91	Serotonin 2C receptor activates a distinct population of arcuate pro-opiomelanocortin neurons via TRPC channels. <i>Neuron</i> , 2011 , 71, 488-97	13.9	135
90	Spinal G-protein-gated potassium channels contribute in a dose-dependent manner to the analgesic effect of mu- and delta- but not kappa-opioids. <i>Journal of Neuroscience</i> , 2005 , 25, 3551-9	6.6	122
89	Compartment-dependent colocalization of Kir3.2-containing K+ channels and GABAB receptors in hippocampal pyramidal cells. <i>Journal of Neuroscience</i> , 2006 , 26, 4289-97	6.6	121
88	Spinal G-protein-gated K+ channels formed by GIRK1 and GIRK2 subunits modulate thermal nociception and contribute to morphine analgesia. <i>Journal of Neuroscience</i> , 2004 , 24, 2806-12	6.6	117
87	Brain localization and behavioral impact of the G-protein-gated K+ channel subunit GIRK4. <i>Journal of Neuroscience</i> , 2000 , 20, 5608-15	6.6	99
86	New insights into the therapeutic potential of Girk channels. <i>Trends in Neurosciences</i> , 2014 , 37, 20-9	13.3	86

85	Repeated cocaine weakens GABA(B)-Girk signaling in layer 5/6 pyramidal neurons in the prelimbic cortex. <i>Neuron</i> , 2013 , 80, 159-70	13.9	85
84	Functional and biochemical evidence for G-protein-gated inwardly rectifying K ⁺ (GIRK) channels composed of GIRK2 and GIRK3. <i>Journal of Biological Chemistry</i> , 2000 , 275, 36211-6	5.4	84
83	Contribution of the Kir3.1 subunit to the muscarinic-gated atrial potassium channel IKACH. <i>Journal of Biological Chemistry</i> , 2002 , 277, 48282-8	5.4	78
82	Mechanisms underlying the activation of G-protein-gated inwardly rectifying K ⁺ (GIRK) channels by the novel anxiolytic drug, ML297. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10755-60	11.5	77
81	GIRK4 confers appropriate processing and cell surface localization to G-protein-gated potassium channels. <i>Journal of Biological Chemistry</i> , 1999 , 274, 2571-82	5.4	73
80	G-protein-gated Inwardly Rectifying Potassium Channels Modulate Respiratory Depression by Opioids. <i>Anesthesiology</i> , 2016 , 124, 641-50	4.3	72
79	G-protein regulation of ion channels. <i>Current Opinion in Neurobiology</i> , 1995 , 5, 278-85	7.6	71
78	RGS6/Gβ complex accelerates IKACH gating kinetics in atrial myocytes and modulates parasympathetic regulation of heart rate. <i>Circulation Research</i> , 2010 , 107, 1350-4	15.7	70
77	Behavioral characterization of mice lacking GIRK/Kir3 channel subunits. <i>Genes, Brain and Behavior</i> , 2008 , 7, 523-31	3.6	68
76	Decreased cocaine self-administration in Kir3 potassium channel subunit knockout mice. <i>Neuropsychopharmacology</i> , 2003 , 28, 932-8	8.7	68
75	Role of G protein-gated inwardly rectifying potassium channels in P2Y12 receptor-mediated platelet functional responses. <i>Blood</i> , 2004 , 104, 1335-43	2.2	60
74	Cell type-specific subunit composition of G protein-gated potassium channels in the cerebellum. <i>Journal of Neurochemistry</i> , 2008 , 105, 497-511	6	59
73	The G-protein-gated K ⁺ channel, IKACH, is required for regulation of pacemaker activity and recovery of resting heart rate after sympathetic stimulation. <i>Journal of General Physiology</i> , 2013 , 142, 113-26	3.4	56
72	Expression and localization of RGS9-2/G 5/R7BP complex in vivo is set by dynamic control of its constitutive degradation by cellular cysteine proteases. <i>Journal of Neuroscience</i> , 2007 , 27, 14117-27	6.6	56
71	Subcellular compartment-specific molecular diversity of pre- and post-synaptic GABA-activated GIRK channels in Purkinje cells. <i>Journal of Neurochemistry</i> , 2009 , 110, 1363-76	6	55
70	Absence and rescue of morphine withdrawal in GIRK/Kir3 knock-out mice. <i>Journal of Neuroscience</i> , 2008 , 28, 4069-77	6.6	55
69	Gbeta5 recruits R7 RGS proteins to GIRK channels to regulate the timing of neuronal inhibitory signaling. <i>Nature Neuroscience</i> , 2010 , 13, 661-3	25.5	54
68	RGS7/Gβ/R7BP complex regulates synaptic plasticity and memory by modulating hippocampal GABABR-GIRK signaling. <i>ELife</i> , 2014 , 3, e02053	8.9	52

67	Acute cocaine exposure weakens GABA(B) receptor-dependent G-protein-gated inwardly rectifying K ⁺ signaling in dopamine neurons of the ventral tegmental area. <i>Journal of Neuroscience</i> , 2011 , 31, 12251-9	6.6	49
66	Distinct populations of spinal cord lamina II interneurons expressing G-protein-gated potassium channels. <i>Journal of Neuroscience</i> , 2006 , 26, 12251-9	6.6	49
65	Hyperalgesia and blunted morphine analgesia in G protein-gated potassium channel subunit knockout mice. <i>NeuroReport</i> , 2002 , 13, 2509-13	1.7	49
64	Cardiac arrhythmia induced by genetic silencing of FunnyT(f) channels is rescued by GIRK4 inactivation. <i>Nature Communications</i> , 2014 , 5, 4664	17.4	48
63	Developmental regulation of G protein-gated inwardly-rectifying K ⁺ (GIRK/Kir3) channel subunits in the brain. <i>European Journal of Neuroscience</i> , 2011 , 34, 1724-36	3.5	48
62	The cardiac inward rectifier K ⁺ channel subunit, CIR, does not comprise the ATP-sensitive K ⁺ channel, IKATP. <i>Journal of Biological Chemistry</i> , 1995 , 270, 28777-9	5.4	47
61	pICln binds to a mammalian homolog of a yeast protein involved in regulation of cell morphology. <i>Journal of Biological Chemistry</i> , 1998 , 273, 10811-4	5.4	45
60	Mapping a barbiturate withdrawal locus to a 0.44 Mb interval and analysis of a novel null mutant identify a role for Kcnj9 (GIRK3) in withdrawal from pentobarbital, zolpidem, and ethanol. <i>Journal of Neuroscience</i> , 2009 , 29, 11662-73	6.6	44
59	Quantitative trait locus and computational mapping identifies Kcnj9 (GIRK3) as a candidate gene affecting analgesia from multiple drug classes. <i>Pharmacogenetics and Genomics</i> , 2008 , 18, 231-41	1.9	44
58	HIV-1 protein Tat produces biphasic changes in NMDA-evoked increases in intracellular Ca ²⁺ concentration via activation of Src kinase and nitric oxide signaling pathways. <i>Journal of Neurochemistry</i> , 2014 , 130, 642-56	6	40
57	Differential GABAB-receptor-mediated effects in perisomatic- and dendrite-targeting parvalbumin interneurons. <i>Journal of Neuroscience</i> , 2013 , 33, 7961-74	6.6	40
56	GIRK Channels Modulate Opioid-Induced Motor Activity in a Cell Type- and Subunit-Dependent Manner. <i>Journal of Neuroscience</i> , 2015 , 35, 7131-42	6.6	39
55	R7BP complexes with RGS9-2 and RGS7 in the striatum differentially control motor learning and locomotor responses to cocaine. <i>Neuropsychopharmacology</i> , 2010 , 35, 1040-50	8.7	39
54	Altered neurotransmission in the mesolimbic reward system of Girk mice. <i>Journal of Neurochemistry</i> , 2010 , 114, 1487-97	6	36
53	Predisposition to late-onset obesity in GIRK4 knockout mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 8148-53	11.5	36
52	Cocaine-induced adaptations in metabotropic inhibitory signaling in the mesocorticolimbic system. <i>Reviews in the Neurosciences</i> , 2012 , 23, 325-51	4.7	35
51	GIRK3 gates activation of the mesolimbic dopaminergic pathway by ethanol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 7091-6	11.5	33
50	Association of Rgs7/GB complexes with Girk channels and GABAB receptors in hippocampal CA1 pyramidal neurons. <i>Hippocampus</i> , 2013 , 23, 1231-45	3.5	33

49	Essential role of the m2R-RGS6-IKACH pathway in controlling intrinsic heart rate variability. <i>PLoS ONE</i> , 2013 , 8, e76973	3.7	32
48	Gbetagamma binding increases the open time of IKACH: kinetic evidence for multiple Gbetagamma binding sites. <i>Biophysical Journal</i> , 1999 , 76, 246-52	2.9	31
47	Selective Ablation of GIRK Channels in Dopamine Neurons Alters Behavioral Effects of Cocaine in Mice. <i>Neuropsychopharmacology</i> , 2017 , 42, 707-715	8.7	29
46	G protein-gated IKACH channels as therapeutic targets for treatment of sick sinus syndrome and heart block. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E932-41	11.5	27
45	Pre- and postsynaptic regulation of locus coeruleus neurons after chronic morphine treatment: a study of GIRK-knockout mice. <i>European Journal of Neuroscience</i> , 2008 , 28, 618-24	3.5	27
44	Behavioral characterization of mice lacking Trek channels. <i>Frontiers in Behavioral Neuroscience</i> , 2012 , 6, 60	3.5	26
43	G-protein-coupled inward rectifier potassium current contributes to ventricular repolarization. <i>Cardiovascular Research</i> , 2014 , 101, 175-84	9.9	25
42	RGS6, but not RGS4, is the dominant regulator of G protein signaling (RGS) modulator of the parasympathetic regulation of mouse heart rate. <i>Journal of Biological Chemistry</i> , 2014 , 289, 2440-9	5.4	25
41	Structure, G protein activation, and functional relevance of the cardiac G protein-gated K ⁺ channel, IKACH. <i>Annals of the New York Academy of Sciences</i> , 1999 , 868, 386-98	6.5	24
40	Sex differences in GABA(B)R-GIRK signaling in layer 5/6 pyramidal neurons of the mouse prelimbic cortex. <i>Neuropharmacology</i> , 2015 , 95, 353-60	5.5	23
39	G Protein-Gated K Channel Ablation in Forebrain Pyramidal Neurons Selectively Impairs Fear Learning. <i>Biological Psychiatry</i> , 2016 , 80, 796-806	7.9	23
38	Axonal sorting of Kir3.3 defines a GABA-containing neuron in the CA3 region of rodent hippocampus. <i>Molecular and Cellular Neurosciences</i> , 2003 , 24, 709-24	4.8	23
37	Tyrosine phosphorylation of K(ir)3.1 in spinal cord is induced by acute inflammation, chronic neuropathic pain, and behavioral stress. <i>Journal of Biological Chemistry</i> , 2005 , 280, 41683-93	5.4	23
36	Structural characterization of the mouse Girk genes. <i>Gene</i> , 2002 , 284, 241-50	3.8	23
35	A Role for the GIRK3 Subunit in Methamphetamine-Induced Attenuation of GABAB Receptor-Activated GIRK Currents in VTA Dopamine Neurons. <i>Journal of Neuroscience</i> , 2016 , 36, 3106-14	6.6	22
34	Partial structure, chromosome localization, and expression of the mouse Girk4 gene. <i>Genomics</i> , 1997 , 40, 395-401	4.3	21
33	ICln is essential for cellular and early embryonic viability. <i>Journal of Biological Chemistry</i> , 2000 , 275, 12363-6	3.6	20
32	Differential association of GABA receptors with their effector ion channels in Purkinje cells. <i>Brain Structure and Function</i> , 2018 , 223, 1565-1587	4	16

31	Atrial GIRK Channels Mediate the Effects of Vagus Nerve Stimulation on Heart Rate Dynamics and Arrhythmogenesis. <i>Frontiers in Physiology</i> , 2018 , 9, 943	4.6	15
30	Targeting inhibitory cerebellar circuitry to alleviate behavioral deficits in a mouse model for studying idiopathic autism. <i>Neuropsychopharmacology</i> , 2020 , 45, 1159-1170	8.7	14
29	Structural elements in the Girk1 subunit that potentiate G protein-gated potassium channel activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 21492-7	11.5	14
28	Expression and relevance of the G protein-gated K channel in the mouse ventricle. <i>Scientific Reports</i> , 2018 , 8, 1192	4.9	12
27	Analgesic Effects of the GIRK Activator, VU0466551, Alone and in Combination with Morphine in Acute and Persistent Pain Models. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 1294-1299	5.7	12
26	GIRK2 splice variants and neuronal G protein-gated K channels: implications for channel function and behavior. <i>Scientific Reports</i> , 2017 , 7, 1639	4.9	11
25	Discovery and Characterization of 1H-Pyrazol-5-yl-2-phenylacetamides as Novel, Non-Urea-Containing GIRK1/2 Potassium Channel Activators. <i>ACS Chemical Neuroscience</i> , 2017 , 8, 1873-1879	5.7	11
24	Evaluation of study design variables and their impact on food-maintained operant responding in mice. <i>Behavioural Brain Research</i> , 2010 , 207, 394-401	3.4	11
23	GIRK Channel Activity in Dopamine Neurons of the Ventral Tegmental Area Bidirectionally Regulates Behavioral Sensitivity to Cocaine. <i>Journal of Neuroscience</i> , 2019 , 39, 3600-3610	6.6	10
22	GIRK Channel Plasticity and Implications for Drug Addiction. <i>International Review of Neurobiology</i> , 2015 , 123, 201-38	4.4	10
21	Suppression of inhibitory G protein signaling in forebrain pyramidal neurons triggers plasticity of glutamatergic neurotransmission in the nucleus accumbens core. <i>Neuropharmacology</i> , 2017 , 117, 33-40	5.5	9
20	GPCR-dependent biasing of GIRK channel signaling dynamics by RGS6 in mouse sinoatrial nodal cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14522-14531	11.5	9
19	Inhibition of Pyramidal Neurons in the Basal Amygdala Promotes Fear Learning. <i>ENeuro</i> , 2018 , 5,	3.9	9
18	Inhibition of G protein-gated K channels by tertiapin-Q rescues sinus node dysfunction and atrioventricular conduction in mouse models of primary bradycardia. <i>Scientific Reports</i> , 2020 , 10, 9835	4.9	9
17	Identification and characterization of alternative splice variants of the mouse <i>Trek2/Kcnk10</i> gene. <i>Neuroscience</i> , 2011 , 194, 11-8	3.9	8
16	VU0810464, a non-urea G protein-gated inwardly rectifying K (K ₃ /GIRK) channel activator, exhibits enhanced selectivity for neuronal K ₃ channels and reduces stress-induced hyperthermia in mice. <i>British Journal of Pharmacology</i> , 2019 , 176, 2238-2249	8.6	7
15	Partial structure, chromosome localization, and expression of the mouse <i>Icln</i> gene. <i>Genomics</i> , 1997 , 40, 402-8	4.3	6
14	Unequal interactions between alcohol and nicotine co-consumption: suppression and enhancement of concurrent drug intake. <i>Psychopharmacology</i> , 2020 , 237, 967-978	4.7	5

13	Mechanisms and Regulation of Neuronal GABA Receptor-Dependent Signaling. <i>Current Topics in Behavioral Neurosciences</i> , 2020 , 1	3.4	5
12	Differential patterns of alcohol and nicotine intake: Combined alcohol and nicotine binge consumption behaviors in mice. <i>Alcohol</i> , 2020 , 85, 57-64	2.7	4
11	Suppression of pyramidal neuron G protein-gated inwardly rectifying K ⁺ channel signaling impairs prelimbic cortical function and underlies stress-induced deficits in cognitive flexibility in male, but not female, mice. <i>Neuropsychopharmacology</i> , 2021 , 46, 2158-2169	8.7	3
10	Genetic Ablation of G Protein-Gated Inwardly Rectifying K Channels Prevents Training-Induced Sinus Bradycardia. <i>Frontiers in Physiology</i> , 2020 , 11, 519382	4.6	3
9	Neuronal G protein-gated K ⁺ channels. <i>American Journal of Physiology - Cell Physiology</i> ,	5.4	3
8	Differential Impact of Inhibitory G-Protein Signaling Pathways in Ventral Tegmental Area Dopamine Neurons on Behavioral Sensitivity to Cocaine and Morphine. <i>ENeuro</i> , 2021 , 8,	3.9	2
7	Bidirectional sex-dependent regulation of β and β nicotinic acetylcholine receptors by protein kinase C. <i>Addiction Biology</i> , 2021 , 26, e12954	4.6	2
6	Impact of Acute and Persistent Excitation of Prelimbic Pyramidal Neurons on Motor Activity and Trace Fear Learning. <i>Journal of Neuroscience</i> , 2021 , 41, 960-971	6.6	2
5	Suppression of pyramidal neuron G protein-gated inwardly rectifying K ⁺ channel signaling impairs prelimbic cortical function and underlies stress-induced deficits in cognitive flexibility		1
4	The influences of the M2R-GIRK4-RGS6 dependent parasympathetic pathway on electrophysiological properties of the mouse heart. <i>PLoS ONE</i> , 2018 , 13, e0193798	3.7	1
3	Mechanisms of Transmembrane Signaling 1997 , 689-742		
2	Characterization of VU0468554, a New Selective Inhibitor of Cardiac G Protein-Gated Inwardly Rectifying K Channels. <i>Molecular Pharmacology</i> , 2021 , 100, 540-547	4.3	
1	GIRK3 deletion facilitates kappa opioid signaling in chondrocytes, delays vascularization and promotes bone lengthening in mice.. <i>Bone</i> , 2022 , 116391	4.7	