Kevin Wickman

List of Publications by Year in Descending Order

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	GIRK3 deletion facilitates kappa opioid signaling in chondrocytes, delays vascularization and promotes bone lengthening in mice.. *Bone*, **2022**, 116391	4.7	
101	Differential Impact of Inhibitory G-Protein Signaling Pathways in Ventral Tegmental Area Dopamine Neurons on Behavioral Sensitivity to Cocaine and Morphine. *ENeuro*, **2021**, 8,	3.9	2
100	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. *Neuropsychopharmacology*, **2021**, 46, 2158-2169	8.7	3
99	Bidirectional sex-dependent regulation of 6 and 3 nicotinic acetylcholine receptors by protein kinase C *Addiction Biology*, **2021**, 26, e12954	4.6	2
98	Impact of Acute and Persistent Excitation of Prelimbic Pyramidal Neurons on Motor Activity and Trace Fear Learning. *Journal of Neuroscience*, **2021**, 41, 960-971	6.6	2
97	Characterization of VU0468554, a New Selective Inhibitor of Cardiac G Protein-Gated Inwardly Rectifying K Channels. *Molecular Pharmacology*, **2021**, 100, 540-547	4.3	
96	GPCR-dependent biasing of GIRK channel signaling dynamics by RGS6 in mouse sinoatrial nodal cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 14522-14531	11.5	9
95	Targeting inhibitory cerebellar circuitry to alleviate behavioral deficits in a mouse model for studying idiopathic autism. *Neuropsychopharmacology*, **2020**, 45, 1159-1170	8.7	14
94	Unequal interactions between alcohol and nicotine co-consumption: suppression and enhancement of concurrent drug intake. *Psychopharmacology*, **2020**, 237, 967-978	4.7	5
93	Inhibition of G protein-gated K channels by tertiapin-Q rescues sinus node dysfunction and atrioventricular conduction in mouse models of primary bradycardia. *Scientific Reports*, **2020**, 10, 9835	4.9	9
92	Mechanisms and Regulation of Neuronal GABA Receptor-Dependent Signaling. *Current Topics in Behavioral Neurosciences*, **2020**, 1	3.4	5
91	Differential patterns of alcohol and nicotine intake: Combined alcohol and nicotine binge consumption behaviors in mice. *Alcohol*, **2020**, 85, 57-64	2.7	4
90	Genetic Ablation of G Protein-Gated Inwardly Rectifying K Channels Prevents Training-Induced Sinus Bradycardia. *Frontiers in Physiology*, **2020**, 11, 519382	4.6	3
89	GIRK Channel Activity in Dopamine Neurons of the Ventral Tegmental Area Bidirectionally Regulates Behavioral Sensitivity to Cocaine. *Journal of Neuroscience*, **2019**, 39, 3600-3610	6.6	10
88	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. *British Journal of Pharmacology*, **2019**, 176, 2238-2249	8.6	7
87	Analgesic Effects of the GIRK Activator, VU0466551, Alone and in Combination with Morphine in Acute and Persistent Pain Models. *ACS Chemical Neuroscience*, **2019**, 10, 1294-1299	5.7	12
86	Expression and relevance of the G protein-gated K channel in the mouse ventricle. *Scientific Reports* , **2018**, 8, 1192	4.9	12

85	Atrial GIRK Channels Mediate the Effects of Vagus Nerve Stimulation on Heart Rate Dynamics and Arrhythmogenesis. *Frontiers in Physiology*, **2018**, 9, 943	4.6	15
84	Inhibition of Pyramidal Neurons in the Basal Amygdala Promotes Fear Learning. *ENeuro*, **2018**, 5,	3.9	9
83	Differential association of GABA receptors with their effector ion channels in Purkinje cells. *Brain Structure and Function*, **2018**, 223, 1565-1587	4	16
82	The influences of the M2R-GIRK4-RGS6 dependent parasympathetic pathway on electrophysiological properties of the mouse heart. *PLoS ONE*, **2018**, 13, e0193798	3.7	1
81	Suppression of inhibitory G protein signaling in forebrain pyramidal neurons triggers plasticity of glutamatergic neurotransmission in the nucleus accumbens core. *Neuropharmacology*, **2017**, 117, 33-40	5.5	9
80	GIRK2 splice variants and neuronal G protein-gated K channels: implications for channel function and behavior. *Scientific Reports*, **2017**, 7, 1639	4.9	11
79	Discovery and Characterization of 1H-Pyrazol-5-yl-2-phenylacetamides as Novel, Non-Urea-Containing GIRK1/2 Potassium Channel Activators. *ACS Chemical Neuroscience*, **2017**, 8, 1873-1879	5.7	11
78	Selective Ablation of GIRK Channels in Dopamine Neurons Alters Behavioral Effects of Cocaine in Mice. *Neuropsychopharmacology*, **2017**, 42, 707-715	8.7	29
77	G protein-gated IKACh channels as therapeutic targets for treatment of sick sinus syndrome and heart block. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E932-41	11.5	27
76	A Role for the GIRK3 Subunit in Methamphetamine-Induced Attenuation of GABAB Receptor-Activated GIRK Currents in VTA Dopamine Neurons. *Journal of Neuroscience*, **2016**, 36, 3106-14	6.6	22
75	G Protein-Gated K Channel Ablation in Forebrain Pyramidal Neurons Selectively Impairs Fear Learning. *Biological Psychiatry*, **2016**, 80, 796-806	7.9	23
74	G-protein-gated Inwardly Rectifying Potassium Channels Modulate Respiratory Depression by Opioids. *Anesthesiology*, **2016**, 124, 641-50	4.3	72
73	GIRK Channel Plasticity and Implications for Drug Addiction. *International Review of Neurobiology*, **2015**, 123, 201-38	4.4	10
72	GIRK3 gates activation of the mesolimbic dopaminergic pathway by ethanol. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 7091-6	11.5	33
71	GIRK Channels Modulate Opioid-Induced Motor Activity in a Cell Type- and Subunit-Dependent Manner. *Journal of Neuroscience*, **2015**, 35, 7131-42	6.6	39
70	Sex differences in GABA(B)R-GIRK signaling in layer 5/6 pyramidal neurons of the mouse prelimbic cortex. *Neuropharmacology*, **2015**, 95, 353-60	5.5	23
69	HIV-1 protein Tat produces biphasic changes in NMDA-evoked increases in intracellular Ca2+ concentration via activation of Src kinase and nitric oxide signaling pathways. *Journal of Neurochemistry*, **2014**, 130, 642-56	6	40
68	New insights into the therapeutic potential of Girk channels. *Trends in Neurosciences*, **2014**, 37, 20-9	13.3	86

67	Cardiac arrhythmia induced by genetic silencing of ₸unnyT(f) channels is rescued by GIRK4 inactivation. *Nature Communications*, **2014**, 5, 4664	17.4	48
66	G-protein-coupled inward rectifier potassium current contributes to ventricular repolarization. *Cardiovascular Research*, **2014**, 101, 175-84	9.9	25
65	RGS6, but not RGS4, is the dominant regulator of G protein signaling (RGS) modulator of the parasympathetic regulation of mouse heart rate. *Journal of Biological Chemistry*, **2014**, 289, 2440-9	5.4	25
64	Mechanisms underlying the activation of G-protein-gated inwardly rectifying K+ (GIRK) channels by the novel anxiolytic drug, ML297. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 10755-60	11.5	77
63	RGS7/G$_{\beta}$/R7BP complex regulates synaptic plasticity and memory by modulating hippocampal GABABR-GIRK signaling. *ELife*, **2014**, 3, e02053	8.9	52
62	Repeated cocaine weakens GABA(B)-Girk signaling in layer 5/6 pyramidal neurons in the prelimbic cortex. *Neuron*, **2013**, 80, 159-70	13.9	85
61	Differential GABAB-receptor-mediated effects in perisomatic- and dendrite-targeting parvalbumin interneurons. *Journal of Neuroscience*, **2013**, 33, 7961-74	6.6	40
60	The G-protein-gated K+ channel, IKACh, is required for regulation of pacemaker activity and recovery of resting heart rate after sympathetic stimulation. *Journal of General Physiology*, **2013**, 142, 113-26	3.4	56
59	Association of Rgs7/G$_{\beta}$ complexes with Girk channels and GABAB receptors in hippocampal CA1 pyramidal neurons. *Hippocampus*, **2013**, 23, 1231-45	3.5	33
58	Essential role of the m2R-RGS6-IKACh pathway in controlling intrinsic heart rate variability. *PLoS ONE*, **2013**, 8, e76973	3.7	32
57	Behavioral characterization of mice lacking Trek channels. *Frontiers in Behavioral Neuroscience*, **2012**, 6, 60	3.5	26
56	Structural elements in the Girk1 subunit that potentiate G protein-gated potassium channel activity. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 21492-7	11.5	14
55	Cocaine-induced adaptations in metabotropic inhibitory signaling in the mesocorticolimbic system. *Reviews in the Neurosciences*, **2012**, 23, 325-51	4.7	35
54	Serotonin 2C receptor activates a distinct population of arcuate pro-opiomelanocortin neurons via TRPC channels. *Neuron*, **2011**, 71, 488-97	13.9	135
53	Identification and characterization of alternative splice variants of the mouse Trek2/Kcnk10 gene. *Neuroscience*, **2011**, 194, 11-8	3.9	8
52	Developmental regulation of G protein-gated inwardly-rectifying K+ (GIRK/Kir3) channel subunits in the brain. *European Journal of Neuroscience*, **2011**, 34, 1724-36	3.5	48
51	Acute cocaine exposure weakens GABA(B) receptor-dependent G-protein-gated inwardly rectifying K+ signaling in dopamine neurons of the ventral tegmental area. *Journal of Neuroscience*, **2011**, 31, 12251-7	6.6	49
50	Altered neurotransmission in the mesolimbic reward system of Girk mice. *Journal of Neurochemistry* , **2010**, 114, 1487-97	6	36

49	Gbeta5 recruits R7 RGS proteins to GIRK channels to regulate the timing of neuronal inhibitory signaling. *Nature Neuroscience*, **2010**, 13, 661-3	25.5	54
48	RGS6/GB complex accelerates IKACh gating kinetics in atrial myocytes and modulates parasympathetic regulation of heart rate. *Circulation Research*, **2010**, 107, 1350-4	15.7	70
47	R7BP complexes with RGS9-2 and RGS7 in the striatum differentially control motor learning and locomotor responses to cocaine. *Neuropsychopharmacology*, **2010**, 35, 1040-50	8.7	39
46	Evaluation of study design variables and their impact on food-maintained operant responding in mice. *Behavioural Brain Research*, **2010**, 207, 394-401	3.4	11
45	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. *Journal of Neuroscience*, **2009**, 29, 11662-73	6.6	44
44	Subcellular compartment-specific molecular diversity of pre- and post-synaptic GABA-activated GIRK channels in Purkinje cells. *Journal of Neurochemistry*, **2009**, 110, 1363-76	6	55
43	Cell type-specific subunit composition of G protein-gated potassium channels in the cerebellum. *Journal of Neurochemistry*, **2008**, 105, 497-511	6	59
42	Pre- and postsynaptic regulation of locus coeruleus neurons after chronic morphine treatment: a study of GIRK-knockout mice. *European Journal of Neuroscience*, **2008**, 28, 618-24	3.5	27
41	Absence and rescue of morphine withdrawal in GIRK/Kir3 knock-out mice. *Journal of Neuroscience*, **2008**, 28, 4069-77	6.6	55
40	Predisposition to late-onset obesity in GIRK4 knockout mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 8148-53	11.5	36
39	Quantitative trait locus and computational mapping identifies Kcnj9 (GIRK3) as a candidate gene affecting analgesia from multiple drug classes. *Pharmacogenetics and Genomics*, **2008**, 18, 231-41	1.9	44
38	Behavioral characterization of mice lacking GIRK/Kir3 channel subunits. *Genes, Brain and Behavior*, **2008**, 7, 523-31	3.6	68
37	RGS2 modulates coupling between GABAB receptors and GIRK channels in dopamine neurons of the ventral tegmental area. *Nature Neuroscience*, **2007**, 10, 1559-68	25.5	169
36	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. *Journal of Neuroscience*, **2007**, 27, 14117-27	6.6	56
35	Distinct populations of spinal cord lamina II interneurons expressing G-protein-gated potassium channels. *Journal of Neuroscience*, **2006**, 26, 12251-9	6.6	49
34	Compartment-dependent colocalization of Kir3.2-containing K+ channels and GABAB receptors in hippocampal pyramidal cells. *Journal of Neuroscience*, **2006**, 26, 4289-97	6.6	121
33	The heart rate decrease caused by acute FTY720 administration is mediated by the G protein-gated potassium channel I. *American Journal of Transplantation*, **2005**, 5, 529-36	8.7	143
32	Spinal G-protein-gated potassium channels contribute in a dose-dependent manner to the analgesic effect of mu- and delta- but not kappa-opioids. *Journal of Neuroscience*, **2005**, 25, 3551-9	6.6	122

31	Molecular and cellular diversity of neuronal G-protein-gated potassium channels. *Journal of Neuroscience*, **2005**, 25, 11468-78	6.6	161
30	Tyrosine phosphorylation of K(ir)3.1 in spinal cord is induced by acute inflammation, chronic neuropathic pain, and behavioral stress. *Journal of Biological Chemistry*, **2005**, 280, 41683-93	5.4	23
29	Vesicular dopamine release elicits an inhibitory postsynaptic current in midbrain dopamine neurons. *Neuron*, **2004**, 42, 939-46	13.9	263
28	Spinal G-protein-gated K+ channels formed by GIRK1 and GIRK2 subunits modulate thermal nociception and contribute to morphine analgesia. *Journal of Neuroscience*, **2004**, 24, 2806-12	6.6	117
27	Role of G protein-gated inwardly rectifying potassium channels in P2Y12 receptor-mediated platelet functional responses. *Blood*, **2004**, 104, 1335-43	2.2	60
26	Decreased cocaine self-administration in Kir3 potassium channel subunit knockout mice. *Neuropsychopharmacology*, **2003**, 28, 932-8	8.7	68
25	Axonal sorting of Kir3.3 defines a GABA-containing neuron in the CA3 region of rodent hippocampus. *Molecular and Cellular Neurosciences*, **2003**, 24, 709-24	4.8	23
24	G-protein-gated potassium channels containing Kir3.2 and Kir3.3 subunits mediate the acute inhibitory effects of opioids on locus ceruleus neurons. *Journal of Neuroscience*, **2002**, 22, 4328-34	6.6	155
23	Contribution of the Kir3.1 subunit to the muscarinic-gated atrial potassium channel IKACh. *Journal of Biological Chemistry*, **2002**, 277, 48282-8	5.4	78
22	Hyperalgesia and blunted morphine analgesia in G protein-gated potassium channel subunit knockout mice. *NeuroReport*, **2002**, 13, 2509-13	1.7	49
21	Structural characterization of the mouse Girk genes. *Gene*, **2002**, 284, 241-50	3.8	23
20	Evaluation of the role of I(KACh) in atrial fibrillation using a mouse knockout model. *Journal of the American College of Cardiology*, **2001**, 37, 2136-43	15.1	197
19	Brain localization and behavioral impact of the G-protein-gated K+ channel subunit GIRK4. *Journal of Neuroscience*, **2000**, 20, 5608-15	6.6	99
18	Functional and biochemical evidence for G-protein-gated inwardly rectifying K+ (GIRK) channels composed of GIRK2 and GIRK3. *Journal of Biological Chemistry*, **2000**, 275, 36211-6	5.4	84
17	ICln is essential for cellular and early embryonic viability. *Journal of Biological Chemistry*, **2000**, 275, 12363-6	5.4	20
16	GIRK4 confers appropriate processing and cell surface localization to G-protein-gated potassium channels. *Journal of Biological Chemistry*, **1999**, 274, 2571-82	5.4	73
15	Structure, G protein activation, and functional relevance of the cardiac G protein-gated K+ channel, IKACh. *Annals of the New York Academy of Sciences*, **1999**, 868, 386-98	6.5	24
14	Gbetagamma binding increases the open time of IKACh: kinetic evidence for multiple Gbetagamma binding sites. *Biophysical Journal*, **1999**, 76, 246-52	2.9	31

13	Abnormal heart rate regulation in GIRK4 knockout mice. *Neuron*, **1998**, 20, 103-14	13.9	329
12	pICln binds to a mammalian homolog of a yeast protein involved in regulation of cell morphology. *Journal of Biological Chemistry*, **1998**, 273, 10811-4	5.4	45
11	Using knockout and transgenic mice to study neurophysiology and behavior. *Physiological Reviews*, **1998**, 78, 1131-63	47.9	155
10	Mechanisms of Transmembrane Signaling **1997**, 689-742		
9	Partial structure, chromosome localization, and expression of the mouse Icln gene. *Genomics*, **1997**, 40, 402-8	4.3	6
8	Partial structure, chromosome localization, and expression of the mouse Girk4 gene. *Genomics*, **1997**, 40, 395-401	4.3	21
7	The cardiac inward rectifier K+ channel subunit, CIR, does not comprise the ATP-sensitive K+ channel, IKATP. *Journal of Biological Chemistry*, **1995**, 270, 28777-9	5.4	47
6	G beta gamma binds directly to the G protein-gated K+ channel, IKACh. *Journal of Biological Chemistry*, **1995**, 270, 29059-62	5.4	191
5	G-protein regulation of ion channels. *Current Opinion in Neurobiology*, **1995**, 5, 278-85	7.6	71
4	Recombinant G-protein beta gamma-subunits activate the muscarinic-gated atrial potassium channel. *Nature*, **1994**, 368, 255-7	50.4	421
3	New mammalian chloride channel identified by expression cloning. *Nature*, **1992**, 356, 238-41	50.4	330
2	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
1	Neuronal G protein-gated K+ channels. *American Journal of Physiology - Cell Physiology*,	5.4	3