Anna Weinzinger

List of Publications by Year in Descending Order

60 papers	954 citations	20 h-index	28 g-index
80 ext. papers	1,123 ext. citations	3.7 avg, IF	4.07 L-index

#	Paper	IF	Citations
60	A selectivity filter mutation provides insights into gating regulation of a K channel.. *Communications Biology*, **2022**, 5, 345	6.7	1
59	The Bradycardic Agent Ivabradine Acts as an Atypical Inhibitor of Voltage-Gated Sodium Channels.. *Frontiers in Pharmacology*, **2022**, 13, 809802	5.6	1
58	Development of I Ion Channel Blockers Targeting Sulfonylurea Resistant Mutant K6.2 Based Channels for Treating DEND Syndrome.. *Frontiers in Pharmacology*, **2021**, 12, 814066	5.6	1
57	Simulating PIP-Induced Gating Transitions in Kir6.2 Channels. *Frontiers in Molecular Biosciences*, **2021**, 8, 711975	5.6	2
56	Computational Insights Into Voltage Dependence of Polyamine Block in a Strong Inwardly Rectifying K Channel. *Frontiers in Pharmacology*, **2020**, 11, 721	5.6	8
55	LUF7244 plus Dofetilide Rescues Aberrant K11.1 Trafficking and Produces Functional I. *Molecular Pharmacology*, **2020**, 97, 355-364	4.3	5
54	Toward a Structural View of hERG Activation by the Small-Molecule Activator ICA-105574. *Journal of Chemical Information and Modeling*, **2020**, 60, 360-371	6.1	5
53	Atomistic basis of opening and conduction in mammalian inward rectifier potassium (Kir2.2) channels. *Journal of General Physiology*, **2020**, 152,	3.4	11
52	Conduction through a narrow inward-rectifier K channel pore. *Journal of General Physiology*, **2019**, 151, 1231-1246	3.4	22
51	Glibenclamide and HMR1098 normalize Cant□syndrome-associated gain-of-function currents. *Journal of Cellular and Molecular Medicine*, **2019**, 23, 4962-4969	5.6	7
50	Computational Identification of Novel Kir6 Channel Inhibitors. *Frontiers in Pharmacology*, **2019**, 10, 549	5.6	2
49	LUF7244, an allosteric modulator/activator of K 11.1 channels, counteracts dofetilide-induced torsades de pointes arrhythmia in the chronic atrioventricular block dog model. *British Journal of Pharmacology*, **2019**, 176, 3871-3885	8.6	12
48	Histidine at position 462 determines the low quinine sensitivity of ether-□go-go channel superfamily member K 12.1. *British Journal of Pharmacology*, **2019**, 176, 2708-2723	8.6	2
47	A structural model of the human serotonin transporter in an outward-occluded state. *PLoS ONE*, **2019**, 14, e0217377	3.7	10
46	Disease Associated Mutations in K Proteins Linked to Aberrant Inward Rectifier Channel Trafficking. *Biomolecules*, **2019**, 9,	5.9	10
45	Distinct modulation of inactivation by a residue in the pore domain of voltage-gated Na channels: mechanistic insights from recent crystal structures. *Scientific Reports*, **2018**, 8, 631	4.9	5
44	Dehydroevodiamine and hortiamine, alkaloids from the traditional Chinese herbal drug Evodia rutaecarpa, are I blockers with proarrhythmic effects in vitro and in vivo. *Pharmacological Research*, **2018**, 131, 150-163	10.2	14

43	Molecular Insights into hERG Potassium Channel Blockade by Lubeluzole. *Cellular Physiology and Biochemistry*, **2018**, 45, 2233-2245	3.9	10
42	Dynamics of the EAG1 K channel selectivity filter assessed by molecular dynamics simulations. *Biochemical and Biophysical Research Communications*, **2017**, 484, 107-112	3.4	3
41	Molecular Basis of Altered hERG1 Channel Gating Induced by Ginsenoside Rg3. *Molecular Pharmacology*, **2017**, 92, 437-450	4.3	4
40	PA-6 inhibits inward rectifier currents carried by V93I and D172N gain-of-function K2.1 channels, but increases channel protein expression. *Journal of Biomedical Science*, **2017**, 24, 44	13.3	10
39	Conserved functional consequences of disease-associated mutations in the slide helix of Kir6.1 and Kir6.2 subunits of the ATP-sensitive potassium channel. *Journal of Biological Chemistry*, **2017**, 292, 17387-17398	5.4	23
38	Structural basis of control of inward rectifier Kir2 channel gating by bulk anionic phospholipids. *Journal of General Physiology*, **2016**, 148, 227-37	3.4	45
37	Drug trapping in hERG K channels: (not) a matter of drug size?. *MedChemComm*, **2016**, 7, 512-518	5	3
36	New potential binding determinant for hERG channel inhibitors. *Scientific Reports*, **2016**, 6, 24182	4.9	55
35	Molecular Dynamics Simulations of KirBac1.1 Mutants Reveal Global Gating Changes of Kir Channels. *Journal of Chemical Information and Modeling*, **2015**, 55, 814-22	6.1	19
34	Structural insights into trapping and dissociation of small molecules in K+ channels. *Journal of Chemical Information and Modeling*, **2014**, 54, 3218-28	6.1	6
33	Insights in KIR2.1 channel structure and function by an evolutionary approach; cloning and functional characterization of the first reptilian inward rectifier channel KIR2.1, derived from the California kingsnake (Lampropeltis getula californiae). *Biochemical and Biophysical Research Communications*, **2014**, 452, 992-7	3.4	6
32	Mechanism of hERG channel block by the psychoactive indole alkaloid ibogaine. *Journal of Pharmacology and Experimental Therapeutics*, **2014**, 348, 346-58	4.7	25
31	Exploring the structure of the voltage-gated Na+ channel by an engineered drug access pathway to the receptor site for local anesthetics. *Journal of Biological Chemistry*, **2014**, 289, 21770-81	5.4	7
30	Different inward and outward conduction mechanisms in NaVMs suggested by molecular dynamics simulations. *PLoS Computational Biology*, **2014**, 10, e1003746	5	23
29	Distinct interactions of Na+ and Ca2+ ions with the selectivity filter of the bacterial sodium channel Na(V)Ab. *Biochemical and Biophysical Research Communications*, **2013**, 430, 1272-6	3.4	29
28	Structure-activity relationships of pentamidine-affected ion channel trafficking and dofetilide mediated rescue. *British Journal of Pharmacology*, **2013**, 169, 1322-34	8.6	15
27	MD Simulations of KirBac1.1 Mutants Reveal Gating Changes at the Bundle Crossing Region. *Biophysical Journal*, **2013**, 104, 213a	2.9	
26	Efficient and specific cardiac IK□nhibition by a new pentamidine analogue. *Cardiovascular Research*, **2013**, 99, 203-14	9.9	32

25	Probing the energy landscape of activation gating of the bacterial potassium channel KcsA. *PLoS Computational Biology*, **2013**, 9, e1003058	5	28
24	ICA-105574 interacts with a common binding site to elicit opposite effects on inactivation gating of EAG and ERG potassium channels. *Molecular Pharmacology*, **2013**, 83, 805-13	4.3	16
23	Inhibition of cardiac inward rectifier currents by cationic amphiphilic drugs. *Current Molecular Medicine*, **2013**, 13, 1284-98	2.5	10
22	Surprises from an unusual CLC homolog. *Biophysical Journal*, **2012**, 103, L44-6	2.9	16
21	Grayanotoxin poisoning: Tmad honey diseaseTand beyond. *Cardiovascular Toxicology*, **2012**, 12, 208-15	3.4	77
20	Neutralisation of a single voltage sensor affects gating determinants in all four pore-forming S6 segments of Ca(V)1.2: a cooperative gating model. *Pflugers Archiv European Journal of Physiology*, **2012**, 464, 391-401	4.6	11
19	Physicochemical properties of pore residues predict activation gating of Ca V1.2: a correlation mutation analysis. *Pflugers Archiv European Journal of Physiology*, **2011**, 461, 53-63	4.6	6
18	Computer simulations of structure-activity relationships for HERG channel blockers. *Biochemistry*, **2011**, 50, 6146-56	3.2	36
17	Molecular determinants for activation of human ether-Ego-go-related gene 1 potassium channels by 3-nitro-n-(4-phenoxyphenyl) benzamide. *Molecular Pharmacology*, **2011**, 80, 630-7	4.3	29
16	Timothy mutation disrupts the link between activation and inactivation in Ca(V)1.2 protein. *Journal of Biological Chemistry*, **2011**, 286, 31557-64	5.4	27
15	In silico analysis of conformational changes induced by mutation of aromatic binding residues: consequences for drug binding in the hERG K+ channel. *PLoS ONE*, **2011**, 6, e28778	3.7	22
14	The anti-protozoal drug pentamidine blocks KIR2.x-mediated inward rectifier current by entering the cytoplasmic pore region of the channel. *British Journal of Pharmacology*, **2010**, 159, 1532-41	8.6	39
13	Cysteines in the loop between IS5 and the pore helix of Ca(V)3.1 are essential for channel gating. *Pflugers Archiv European Journal of Physiology*, **2010**, 460, 1015-28	4.6	12
12	The hERG potassium channel and drug trapping: insight from docking studies with propafenone derivatives. *ChemMedChem*, **2010**, 5, 436-42	3.7	18
11	Toward a consensus model of the HERG potassium channel. *ChemMedChem*, **2010**, 5, 455-67	3.7	57
10	Coupled and independent contributions of residues in IS6 and IIS6 to activation gating of CaV1.2. *Journal of Biological Chemistry*, **2009**, 284, 12276-84	5.4	20
9	Evolutionary trace of human odorant receptors of chromosome 17. *Flavour and Fragrance Journal*, **2009**, 24, 192-197	2.5	4
8	Molecular dynamics and mutational analysis of a channelopathy mutation in the IIS6 helix of Ca V 1.2. *Channels*, **2008**, 2, 216-23	3	14

7	Pore stability and gating in voltage-activated calcium channels. *Channels*, **2008**, 2, 61-9	3	11
6	Structural model of the Ca V 1.2 pore. *Channels*, **2008**, 2, 210-5	3	20
5	Genomics of selected human odorant receptors. *Monatshefte F□ Chemie*, **2008**, 139, 1537-1544	1.4	2
4	Probing the architecture of an L-type calcium channel with a charged phenylalkylamine: evidence for a widely open pore and drug trapping. *Journal of Biological Chemistry*, **2007**, 282, 3864-70	5.4	21
3	Differences in (-)citronellal binding to various odorant receptors. *Biochemical and Biophysical Research Communications*, **2007**, 361, 941-5	3.4	21
2	Computational identification of novel Kir6 channel inhibitors		1
1	Atomistic basis of opening and conduction in mammalian inward rectifier potassium (Kir2.2) channels		2