Anna Weinzinger

List of Publications by Year
in descending order

77 papers	1,246 citations	331670 21 h-index	414414 32 g-index
80 all docs	80 docs citations	80 times ranked	1489 citing authors

#	Article	IF	Citations
1	A selectivity filter mutation provides insights into gating regulation of a K+ channel. Communications Biology, 2022, 5, 345.	4.4	2
2	The Bradycardic Agent Ivabradine Acts as an Atypical Inhibitor of Voltage-Gated Sodium Channels. Frontiers in Pharmacology, 2022, 13, 809802.	3.5	3
3	Simulating PIP2-Induced Gating Transitions in Kir6.2 Channels. Frontiers in Molecular Biosciences, 2021, 8, 711975.	3.5	6
4	Development of IKATP Ion Channel Blockers Targeting Sulfonylurea Resistant Mutant KIR6.2 Based Channels for Treating DEND Syndrome. Frontiers in Pharmacology, 2021, 12, 814066.	3.5	2
5	Atomistic basis of opening and conduction in mammalian inward rectifier potassium (Kir2.2) channels. Journal of General Physiology, 2020, 152, jgp.201912422.	1.9	28
6	Toward a Structural View of hERG Activation by the Small-Molecule Activator ICA-105574. Journal of Chemical Information and Modeling, 2020, 60, 360-371.	5.4	12
7	Computational Insights into Voltage Dependence of Polyamine Block in Inwardly Rectifying K+ Channels. Biophysical Journal, 2020, 118, 267a.	0.5	0
8	Conduction and Selectivity in Kir3.2 Channels - A Molecular Dynamics Study. Biophysical Journal, 2020, 118, 108a.	0.5	0
9	Computational Insights Into Voltage Dependence of Polyamine Block in a Strong Inwardly Rectifying K+ Channel. Frontiers in Pharmacology, 2020, 11, 721.	3.5	11
10	LUF7244 plus Dofetilide Rescues Aberrant Kv11.1 Trafficking and Produces Functional IKv11.1. Molecular Pharmacology, 2020, 97, 355-364.	2.3	10
11	LUF7244, an allosteric modulator/activator of K_v11.1 channels, counteracts dofetilideâ€induced torsades de pointes arrhythmia in the chronic atrioventricular block dog model. British Journal of Pharmacology, 2019, 176, 3871-3885.	5.4	16
12	Histidine at position 462 determines the low quinine sensitivity of etherâ€Ââ€goâ€go channel superfamily member K_v12.1. British Journal of Pharmacology, 2019, 176, 2708-2723.	5.4	2
13	A structural model of the human serotonin transporter in an outward-occluded state. PLoS ONE, 2019, 14, e0217377.	2.5	17
14	Disease Associated Mutations in KIR Proteins Linked to Aberrant Inward Rectifier Channel Trafficking. Biomolecules, 2019, 9, 650.	4.0	20
15	Conduction through a narrow inward-rectifier K+ channel pore. Journal of General Physiology, 2019, 151, 1231-1246.	1.9	36
16	Glibenclamide and HMR1098 normalize CantÃº syndromeâ€associated gainâ€ofâ€function currents. Journal of Cellular and Molecular Medicine, 2019, 23, 4962-4969.	3.6	11
17	Computational Identification of Novel Kir6 Channel Inhibitors. Frontiers in Pharmacology, 2019, 10, 549.	3.5	5
18	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.	3.3	7

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19	Dehydroevodiamine and hortiamine, alkaloids from the traditional Chinese herbal drug Evodia rutaecarpa, are IKr blockers with proarrhythmic effects in vitro and in vivo. Pharmacological Research, 2018, 131, 150-163.	7.1	23
20	Molecular Insights into hERG Potassium Channel Blockade by Lubeluzole. Cellular Physiology and Biochemistry, 2018, 45, 2233-2245.	1.6	10
21	Selectivity Profiling of the Human Monoamine Transporters: Investigation of the Serotonin Transporter Mechanism. Biophysical Journal, 2018, 114, 332a.	0.5	0
22	Investigating the Gating Mechanism of G Protein-Activated Inward Rectifying Potassium Channels. Biophysical Journal, 2017, 112, 508a.	0.5	1
23	Dynamics of the EAG1 K + channel selectivity filter assessed by molecular dynamics simulations. Biochemical and Biophysical Research Communications, 2017, 484, 107-112.	2.1	3
24	Computational Investigations of KATP Channel Pore Blockers. Biophysical Journal, 2017, 112, 412a.	0.5	0
25	Molecular Basis of Altered hERG1 Channel Gating Induced by Ginsenoside Rg3. Molecular Pharmacology, 2017, 92, 437-450.	2.3	6
26	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.	3.4	31
27	PA-6 inhibits inward rectifier currents carried by V93I and D172N gain-of-function KIR2.1 channels, but increases channel protein expression. Journal of Biomedical Science, 2017, 24, 44.	7.0	14
28	New potential binding determinant for hERG channel inhibitors. Scientific Reports, 2016, 6, 24182.	3.3	78
29	Structural basis of control of inward rectifier Kir2 channel gating by bulk anionic phospholipids. Journal of General Physiology, 2016, 148, 227-237.	1.9	66
30	Towards a Structural Understanding of CantÃº Disease Associated Gating Perturbations in the KATP Potassium Channel. Biophysical Journal, 2016, 110, 451a-452a.	0.5	0
31	Drug trapping in hERG K⁺ channels: (not) a matter of drug size?. MedChemComm, 2016, 7, 512-518.	3.4	11
32	Studying the Gating Mechanism of Mammalian Kir Channels using in Silico Mutations. Biophysical Journal, 2015, 108, 209a.	0.5	0
33	Molecular Dynamics Simulations of KirBac1.1 Mutants Reveal Global Gating Changes of Kir Channels. Journal of Chemical Information and Modeling, 2015, 55, 814-822.	5.4	21
34	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, 21770-21781.	3.4	7
35	Different Inward and Outward Conduction Mechanisms in NaVMs Suggested by Molecular Dynamics Simulations. PLoS Computational Biology, 2014, 10, e1003746.	3.2	27
36	Structural Insights into Trapping and Dissociation of Small Molecules in K⁺ Channels. Journal of Chemical Information and Modeling, 2014, 54, 3218-3228.	5.4	6

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37	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, 992-997.	2.1	9
38	Mechanism of hERG Channel Block by the Psychoactive Indole Alkaloid Ibogaine. Journal of Pharmacology and Experimental Therapeutics, 2014, 348, 346-358.	2.5	34
39	A Novel Gating Mechanism of the NaVMs Selectivity Filter Suggested by Molecular Dynamics Simulations. Biophysical Journal, 2014, 106, 131a.	0.5	0
40	Insights into Molecular Basis of hERG Inhibition by Studying a Library of Dofetilide Derivatives. Biophysical Journal, 2014, 106, 138a.	0.5	0
41	Distinct interactions of Na+ and Ca2+ ions with the selectivity filter of the bacterial sodium channel NaVAb. Biochemical and Biophysical Research Communications, 2013, 430, 1272-1276.	2.1	31
42	Computational Insights into Atomistic Details of Na+ Versus Ca2+ Discrimination in Sodium Channel NavAb. Biophysical Journal, 2013, 104, 135a.	0.5	0
43	Inactivation Properties, not Binding Site Differences, Govern Reciprocal Functional Response to ICA105574 in EAG and ERG Potassium Channels. Biophysical Journal, 2013, 104, 266a.	0.5	0
44	Structureâ€activity relationships of pentamidineâ€affected ion channel trafficking and dofetilide mediated rescue. British Journal of Pharmacology, 2013, 169, 1322-1334.	5.4	16
45	MD Simulations of KirBac1.1 Mutants Reveal Gating Changes at the Bundle Crossing Region. Biophysical Journal, 2013, 104, 213a.	0.5	0
46	Activation Gating of KcsA: New Insights into Cooperativity and Energy Landscape from Essential Dynamics Simulations. Biophysical Journal, 2013, 104, 128a-129a.	0.5	0
47	Drug Trapping in hERG Channels does not Require Closure of the Activation Gate. Biophysical Journal, 2013, 104, 266a.	0.5	0
48	Efficient and specific cardiac IK1 inhibition by a new pentamidine analogue. Cardiovascular Research, 2013, 99, 203-214.	3.8	36
49	Probing the Energy Landscape of Activation Gating of the Bacterial Potassium Channel KcsA. PLoS Computational Biology, 2013, 9, e1003058.	3.2	31
50	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, 805-813.	2.3	21
51	Inhibition of Cardiac Inward Rectifier Currents by Cationic Amphiphilic Drugs. Current Molecular Medicine, 2013, 13, 1284-1298.	1.3	12
52	Surprises from an Unusual CLC Homolog. Biophysical Journal, 2012, 103, L44-L46.	0.5	19
53	Pore Gating of K+ Channels Studied by Essential Dynamics Simulations using the Simplified Bacterial K+ Channel KcsA. Biophysical Journal, 2012, 102, 397a.	0.5	0
54	Neutralizing the Charges in a Voltage Sensor Repairs Gating Perturbations in the Pore of CaV1.2. Biophysical Journal, 2012, 102, 126a.	0.5	0

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55	ICA105574 Binds to a Similar Region of the Pore Domain to Induce Opposite Effects on the Gating of EAG and ERG Channels. Biophysical Journal, 2012, 102, 132a.	0.5	0
56	Grayanotoxin Poisoning: â€˜Mad Honey Diseaseâ€™ and Beyond. Cardiovascular Toxicology, 2012, 12, 208-215.	2.7	115
57	Neutralisation of a single voltage sensor affects gating determinants in all four pore-forming S6 segments of CaV1.2: a cooperative gating model. Pflugers Archiv European Journal of Physiology, 2012, 464, 391-401.	2.8	13
58	Computer Simulations of Structureâ€“Activity Relationships for hERG Channel Blockers. Biochemistry, 2011, 50, 6146-6156.	2.5	38
59	Mutational Analysis in the Bundle Crossing Region Guides the Design of Cav1.2 Homology Models. Biophysical Journal, 2011, 100, 569a.	0.5	0
60	Physicochemical Properties of Pore Residues Predict Activation Gating of Cav1.2: A Correlation Mutation Analysis. Biophysical Journal, 2011, 100, 569a.	0.5	0
61	Physicochemical properties of pore residues predict activation gating of CaV1.2: A correlation mutation analysis. Pflugers Archiv European Journal of Physiology, 2011, 461, 53-63.	2.8	8
62	Molecular Determinants for Activation of HumanEther-Ã-go-go-relatedGene 1 Potassium Channels by 3-Nitro-N-(4-phenoxyphenyl) Benzamide. Molecular Pharmacology, 2011, 80, 630-637.	2.3	33
63	Timothy Mutation Disrupts the Link between Activation and Inactivation in CaV1.2 Protein. Journal of Biological Chemistry, 2011, 286, 31557-31564.	3.4	35
64	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.	2.5	23
65	Cysteines in the loop between IS5 and the pore helix of CaV3.1 are essential for channel gating. Pflugers Archiv European Journal of Physiology, 2010, 460, 1015-1028.	2.8	15
66	The hERG Potassium Channel and Drug Trapping: Insight from Docking Studies with Propafenone Derivatives. ChemMedChem, 2010, 5, 436-442.	3.2	22
67	Toward a Consensus Model of the hERG Potassium Channel. ChemMedChem, 2010, 5, 455-467.	3.2	66
68	The antiâ€protozoal drug pentamidine blocks K_{IR}2.xâ€mediated inward rectifier current by entering the cytoplasmic pore region of the channel. British Journal of Pharmacology, 2010, 159, 1532-1541.	5.4	42
69	Conformational Flexibility of the hERG K+ Channel Pore Domain. Biophysical Journal, 2010, 98, 120a.	0.5	0
70	Coupled and Independent Contributions of Residues in IS6 and IIS6 to Activation Gating of CaV1.2. Journal of Biological Chemistry, 2009, 284, 12276-12284.	3.4	24
71	Evolutionary trace of human odorant receptors of chromosome 17. Flavour and Fragrance Journal, 2009, 24, 192-197.	2.6	4
72	Genomics of selected human odorant receptors. Monatshefte FÃ¼r Chemie, 2008, 139, 1537-1544.	1.8	3

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73	Molecular Dynamics and Mutational Analysis of a Channelopathy mutation in the IIS6 Helix of CaV1.2. Channels, 2008, 2, 216-223.	2.8	18
74	Pore stability and gating in voltage-activated calcium channels. Channels, 2008, 2, 61-69.	2.8	13
75	Structural Model of the Ca_V1.2 Pore. Channels, 2008, 2, 210-215.	2.8	21
76	Probing the Architecture of an L-type Calcium Channel with a Charged Phenylalkylamine. Journal of Biological Chemistry, 2007, 282, 3864-3870.	3.4	23
77	Differences in (â˜')citronellal binding to various odorant receptors. Biochemical and Biophysical Research Communications, 2007, 361, 941-945.	2.1	22