

Anna Weinzinger

List of Publications by Year in descending order

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77
papers

1,246
citations

331259

21
h-index

414034

32
g-index

80
all docs

80
docs citations

80
times ranked

1489
citing authors

#	ARTICLE	IF	CITATIONS
1	Grayanotoxin Poisoning: "Mad Honey Disease"™ and Beyond. <i>Cardiovascular Toxicology</i> , 2012, 12, 208-215.	1.1	115
2	New potential binding determinant for hERG channel inhibitors. <i>Scientific Reports</i> , 2016, 6, 24182.	1.6	78
3	Toward a Consensus Model of the hERG Potassium Channel. <i>ChemMedChem</i> , 2010, 5, 455-467.	1.6	66
4	Structural basis of control of inward rectifier Kir2 channel gating by bulk anionic phospholipids. <i>Journal of General Physiology</i> , 2016, 148, 227-237.	0.9	66
5	The anti-protozoal drug pentamidine blocks K _{IR} 2.x-mediated inward rectifier current by entering the cytoplasmic pore region of the channel. <i>British Journal of Pharmacology</i> , 2010, 159, 1532-1541.	2.7	42
6	Computer Simulations of Structure-Activity Relationships for hERG Channel Blockers. <i>Biochemistry</i> , 2011, 50, 6146-6156.	1.2	38
7	Efficient and specific cardiac IK1 inhibition by a new pentamidine analogue. <i>Cardiovascular Research</i> , 2013, 99, 203-214.	1.8	36
8	Conduction through a narrow inward-rectifier K ⁺ channel pore. <i>Journal of General Physiology</i> , 2019, 151, 1231-1246.	0.9	36
9	Timothy Mutation Disrupts the Link between Activation and Inactivation in CaV1.2 Protein. <i>Journal of Biological Chemistry</i> , 2011, 286, 31557-31564.	1.6	35
10	Mechanism of hERG Channel Block by the Psychoactive Indole Alkaloid Ibogaine. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 348, 346-358.	1.3	34
11	Molecular Determinants for Activation of Human <i>Ether-Å-go-go-related Gene 1</i> Potassium Channels by 3-Nitro-N-(4-phenoxyphenyl) Benzamide. <i>Molecular Pharmacology</i> , 2011, 80, 630-637.	1.0	33
12	Distinct interactions of Na ⁺ and Ca ²⁺ ions with the selectivity filter of the bacterial sodium channel NaVAb. <i>Biochemical and Biophysical Research Communications</i> , 2013, 430, 1272-1276.	1.0	31
13	Probing the Energy Landscape of Activation Gating of the Bacterial Potassium Channel KcsA. <i>PLoS Computational Biology</i> , 2013, 9, e1003058.	1.5	31
14	Conserved functional consequences of disease-associated mutations in the slide helix of Kir6.1 and Kir6.2 subunits of the ATP-sensitive potassium channel. <i>Journal of Biological Chemistry</i> , 2017, 292, 17387-17398.	1.6	31
15	Atomistic basis of opening and conduction in mammalian inward rectifier potassium (Kir2.2) channels. <i>Journal of General Physiology</i> , 2020, 152, jgp.201912422.	0.9	28
16	Different Inward and Outward Conduction Mechanisms in NaVMs Suggested by Molecular Dynamics Simulations. <i>PLoS Computational Biology</i> , 2014, 10, e1003746.	1.5	27
17	Coupled and Independent Contributions of Residues in IS6 and IIS6 to Activation Gating of CaV1.2. <i>Journal of Biological Chemistry</i> , 2009, 284, 12276-12284.	1.6	24
18	Probing the Architecture of an L-type Calcium Channel with a Charged Phenylalkylamine. <i>Journal of Biological Chemistry</i> , 2007, 282, 3864-3870.	1.6	23

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19	Dehydroevodiamine and hortiamine, alkaloids from the traditional Chinese herbal drug <i>Evodia rutaecarpa</i> , are IKr blockers with proarrhythmic effects in vitro and in vivo. <i>Pharmacological Research</i> , 2018, 131, 150-163.	3.1	23
20	In silico Analysis of Conformational Changes Induced by Mutation of Aromatic Binding Residues: Consequences for Drug Binding in the hERG K ⁺ Channel. <i>PLoS ONE</i> , 2011, 6, e28778.	1.1	23
21	Differences in (α ¹)citronellal binding to various odorant receptors. <i>Biochemical and Biophysical Research Communications</i> , 2007, 361, 941-945.	1.0	22
22	The hERG Potassium Channel and Drug Trapping: Insight from Docking Studies with Propafenone Derivatives. <i>ChemMedChem</i> , 2010, 5, 436-442.	1.6	22
23	Structural Model of the Ca _v 1.2 Pore. <i>Channels</i> , 2008, 2, 210-215.	1.5	21
24	ICA-105574 Interacts with a Common Binding Site to Elicit Opposite Effects on Inactivation Gating of EAG and ERG Potassium Channels. <i>Molecular Pharmacology</i> , 2013, 83, 805-813.	1.0	21
25	Molecular Dynamics Simulations of KirBac1.1 Mutants Reveal Global Gating Changes of Kir Channels. <i>Journal of Chemical Information and Modeling</i> , 2015, 55, 814-822.	2.5	21
26	Disease Associated Mutations in KIR Proteins Linked to Aberrant Inward Rectifier Channel Trafficking. <i>Biomolecules</i> , 2019, 9, 650.	1.8	20
27	Surprises from an Unusual CLC Homolog. <i>Biophysical Journal</i> , 2012, 103, L44-L46.	0.2	19
28	Molecular Dynamics and Mutational Analysis of a Channelopathy mutation in the IIS6 Helix of CaV1.2 Channels. <i>Channels</i> , 2008, 2, 216-223.	1.5	18
29	A structural model of the human serotonin transporter in an outward-occluded state. <i>PLoS ONE</i> , 2019, 14, e0217377.	1.1	17
30	Structure-activity relationships of pentamidine-affected ion channel trafficking and dofetilide mediated rescue. <i>British Journal of Pharmacology</i> , 2013, 169, 1322-1334.	2.7	16
31	LUF7244, an allosteric modulator/activator of K _v 11.1 channels, counteracts dofetilide-induced torsades de pointes arrhythmia in the chronic atrioventricular block dog model. <i>British Journal of Pharmacology</i> , 2019, 176, 3871-3885.	2.7	16
32	Cysteines in the loop between IS5 and the pore helix of CaV3.1 are essential for channel gating. <i>Pflügers Archiv European Journal of Physiology</i> , 2010, 460, 1015-1028.	1.3	15
33	PA-6 inhibits inward rectifier currents carried by V93I and D172N gain-of-function KIR2.1 channels, but increases channel protein expression. <i>Journal of Biomedical Science</i> , 2017, 24, 44.	2.6	14
34	Pore stability and gating in voltage-activated calcium channels. <i>Channels</i> , 2008, 2, 61-69.	1.5	13
35	Neutralisation of a single voltage sensor affects gating determinants in all four pore-forming S6 segments of CaV1.2: a cooperative gating model. <i>Pflügers Archiv European Journal of Physiology</i> , 2012, 464, 391-401.	1.3	13
36	Toward a Structural View of hERG Activation by the Small-Molecule Activator ICA-105574. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 360-371.	2.5	12

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37	Inhibition of Cardiac Inward Rectifier Currents by Cationic Amphiphilic Drugs. <i>Current Molecular Medicine</i> , 2013, 13, 1284-1298.	0.6	12
38	Drug trapping in hERG K ⁺ channels: (not) a matter of drug size?. <i>MedChemComm</i> , 2016, 7, 512-518.	3.5	11
39	Glibenclamide and HMR1098 normalize Cant ¹ syndrome-associated gain-of-function currents. <i>Journal of Cellular and Molecular Medicine</i> , 2019, 23, 4962-4969.	1.6	11
40	Computational Insights Into Voltage Dependence of Polyamine Block in a Strong Inwardly Rectifying K ⁺ Channel. <i>Frontiers in Pharmacology</i> , 2020, 11, 721.	1.6	11
41	Molecular Insights into hERG Potassium Channel Blockade by Lubeluzole. <i>Cellular Physiology and Biochemistry</i> , 2018, 45, 2233-2245.	1.1	10
42	LUF7244 plus Dofetilide Rescues Aberrant Kv11.1 Trafficking and Produces Functional IKv11.1. <i>Molecular Pharmacology</i> , 2020, 97, 355-364.	1.0	10
43	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 (<i>Lampropeltis getula californiae</i>). <i>Biochemical and Biophysical Research Communications</i> , 2014, 452, 992-997.	1.0	9
44	Physicochemical properties of pore residues predict activation gating of CaV1.2: A correlation mutation analysis. <i>Pflügers Archiv European Journal of Physiology</i> , 2011, 461, 53-63.	1.3	8
45	Exploring the Structure of the Voltage-gated Na ⁺ Channel by an Engineered Drug Access Pathway to the Receptor Site for Local Anesthetics. <i>Journal of Biological Chemistry</i> , 2014, 289, 21770-21781.	1.6	7
46	Distinct modulation of inactivation by a residue in the pore domain of voltage-gated Na ⁺ channels: mechanistic insights from recent crystal structures. <i>Scientific Reports</i> , 2018, 8, 631.	1.6	7
47	Structural Insights into Trapping and Dissociation of Small Molecules in K ⁺ Channels. <i>Journal of Chemical Information and Modeling</i> , 2014, 54, 3218-3228.	2.5	6
48	Molecular Basis of Altered hERG1 Channel Gating Induced by Ginsenoside Rg3. <i>Molecular Pharmacology</i> , 2017, 92, 437-450.	1.0	6
49	Simulating PIP2-Induced Gating Transitions in Kir6.2 Channels. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 711975.	1.6	6
50	Computational Identification of Novel Kir6 Channel Inhibitors. <i>Frontiers in Pharmacology</i> , 2019, 10, 549.	1.6	5
51	Evolutionary trace of human odorant receptors of chromosome 17. <i>Flavour and Fragrance Journal</i> , 2009, 24, 192-197.	1.2	4
52	Genomics of selected human odorant receptors. <i>Monatshefte für Chemie</i> , 2008, 139, 1537-1544.	0.9	3
53	Dynamics of the EAG1 K ⁺ channel selectivity filter assessed by molecular dynamics simulations. <i>Biochemical and Biophysical Research Communications</i> , 2017, 484, 107-112.	1.0	3
54	The Bradycardic Agent Ivabradine Acts as an Atypical Inhibitor of Voltage-Gated Sodium Channels. <i>Frontiers in Pharmacology</i> , 2022, 13, 809802.	1.6	3

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55	Histidine at position 462 determines the low quinine sensitivity of ether-à-go-go channel superfamily member K _v 12.1. <i>British Journal of Pharmacology</i> , 2019, 176, 2708-2723.	2.7	2
56	Development of IKATP Ion Channel Blockers Targeting Sulfonylurea Resistant Mutant KIR6.2 Based Channels for Treating DEND Syndrome. <i>Frontiers in Pharmacology</i> , 2021, 12, 814066.	1.6	2
57	A selectivity filter mutation provides insights into gating regulation of a K ⁺ channel. <i>Communications Biology</i> , 2022, 5, 345.	2.0	2
58	Investigating the Gating Mechanism of G Protein-Activated Inward Rectifying Potassium Channels. <i>Biophysical Journal</i> , 2017, 112, 508a.	0.2	1
59	Conformational Flexibility of the hERG K ⁺ Channel Pore Domain. <i>Biophysical Journal</i> , 2010, 98, 120a.	0.2	0
60	Mutational Analysis in the Bundle Crossing Region Guides the Design of Cav1.2 Homology Models. <i>Biophysical Journal</i> , 2011, 100, 569a.	0.2	0
61	Physicochemical Properties of Pore Residues Predict Activation Gating of Cav1.2: A Correlation Mutation Analysis. <i>Biophysical Journal</i> , 2011, 100, 569a.	0.2	0
62	Pore Gating of K ⁺ Channels Studied by Essential Dynamics Simulations using the Simplified Bacterial K ⁺ Channel KcsA. <i>Biophysical Journal</i> , 2012, 102, 397a.	0.2	0
63	Neutralizing the Charges in a Voltage Sensor Repairs Gating Perturbations in the Pore of CaV1.2. <i>Biophysical Journal</i> , 2012, 102, 126a.	0.2	0
64	ICA105574 Binds to a Similar Region of the Pore Domain to Induce Opposite Effects on the Gating of EAG and ERG Channels. <i>Biophysical Journal</i> , 2012, 102, 132a.	0.2	0
65	Computational Insights into Atomistic Details of Na ⁺ Versus Ca ²⁺ Discrimination in Sodium Channel NavAb. <i>Biophysical Journal</i> , 2013, 104, 135a.	0.2	0
66	Inactivation Properties, not Binding Site Differences, Govern Reciprocal Functional Response to ICA105574 in EAG and ERG Potassium Channels. <i>Biophysical Journal</i> , 2013, 104, 266a.	0.2	0
67	MD Simulations of KirBac1.1 Mutants Reveal Gating Changes at the Bundle Crossing Region. <i>Biophysical Journal</i> , 2013, 104, 213a.	0.2	0
68	Activation Gating of KcsA: New Insights into Cooperativity and Energy Landscape from Essential Dynamics Simulations. <i>Biophysical Journal</i> , 2013, 104, 128a-129a.	0.2	0
69	Drug Trapping in hERG Channels does not Require Closure of the Activation Gate. <i>Biophysical Journal</i> , 2013, 104, 266a.	0.2	0
70	A Novel Gating Mechanism of the NaVMs Selectivity Filter Suggested by Molecular Dynamics Simulations. <i>Biophysical Journal</i> , 2014, 106, 131a.	0.2	0
71	Insights into Molecular Basis of hERG Inhibition by Studying a Library of Dofetilide Derivatives. <i>Biophysical Journal</i> , 2014, 106, 138a.	0.2	0
72	Studying the Gating Mechanism of Mammalian Kir Channels using in Silico Mutations. <i>Biophysical Journal</i> , 2015, 108, 209a.	0.2	0

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73	Towards a Structural Understanding of CantÃ© Disease Associated Gating Perturbations in the KATP Potassium Channel. Biophysical Journal, 2016, 110, 451a-452a.	0.2	0
74	Computational Investigations of KATP Channel Pore Blockers. Biophysical Journal, 2017, 112, 412a.	0.2	0
75	Selectivity Profiling of the Human Monoamine Transporters: Investigation of the Serotonin Transporter Mechanism. Biophysical Journal, 2018, 114, 332a.	0.2	0
76	Computational Insights into Voltage Dependence of Polyamine Block in Inwardly Rectifying K ⁺ Channels. Biophysical Journal, 2020, 118, 267a.	0.2	0
77	Conduction and Selectivity in Kir3.2 Channels - A Molecular Dynamics Study. Biophysical Journal, 2020, 118, 108a.	0.2	0