

Jerod S Denton

List of Publications by Year in descending order

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papers

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citations

218677

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233421

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83
all docs

83
docs citations

83
times ranked

2274
citing authors

#	ARTICLE	IF	CITATIONS
1	A PDZ-interacting domain in CFTR is an apical membrane polarization signal. <i>Journal of Clinical Investigation</i> , 1999, 104, 1353-1361.	8.2	259
2	G-protein-independent coupling of MC4R to Kir7.1 in hypothalamic neurons. <i>Nature</i> , 2015, 520, 94-98.	27.8	152
3	The PDZ-interacting Domain of Cystic Fibrosis Transmembrane Conductance Regulator Is Required for Functional Expression in the Apical Plasma Membrane. <i>Journal of Biological Chemistry</i> , 2000, 275, 27069-27074.	3.4	141
4	ML297 (VU0456810), the First Potent and Selective Activator of the GIRK Potassium Channel, Displays Antiepileptic Properties in Mice. <i>ACS Chemical Neuroscience</i> , 2013, 4, 1278-1286.	3.5	135
5	Ste20-Type Kinases: Evolutionarily Conserved Regulators of Ion Transport and Cell Volume. <i>Physiology</i> , 2006, 21, 61-68.	3.1	91
6	High-Throughput Screening Reveals a Small-Molecule Inhibitor of the Renal Outer Medullary Potassium Channel and Kir7.1. <i>Molecular Pharmacology</i> , 2009, 76, 1094-1103.	2.3	85
7	A 30-year journey from volume-regulated anion currents to molecular structure of the LRRC8 channel. <i>Journal of General Physiology</i> , 2019, 151, 100-117.	1.9	76
8	Development of a Selective Small-Molecule Inhibitor of Kir1.1, the Renal Outer Medullary Potassium Channel. <i>Molecular Pharmacology</i> , 2011, 79, 42-50.	2.3	72
9	GCK-3, a Newly Identified Ste20 Kinase, Binds To and Regulates the Activity of a Cell Cycle-dependent CIC Anion Channel. <i>Journal of General Physiology</i> , 2005, 125, 113-125.	1.9	63
10	The inwardly rectifying K ⁺ channel KIR7.1 controls uterine excitability throughout pregnancy. <i>EMBO Molecular Medicine</i> , 2014, 6, 1161-1174.	6.9	59
11	Eliciting Renal Failure in Mosquitoes with a Small-Molecule Inhibitor of Inward-Rectifying Potassium Channels. <i>PLoS ONE</i> , 2013, 8, e64905.	2.5	57
12	An insecticide resistance-breaking mosquitocide targeting inward rectifier potassium channels in vectors of Zika virus and malaria. <i>Scientific Reports</i> , 2016, 6, 36954.	3.3	55
13	Small-molecule modulators of inward rectifier K ⁺ channels: recent advances and future possibilities. <i>Future Medicinal Chemistry</i> , 2010, 2, 757-774.	2.3	47
14	The NH2 Terminus of the Epithelial Sodium Channel Contains an Endocytic Motif. <i>Journal of Biological Chemistry</i> , 1999, 274, 32889-32896.	3.4	46
15	Cell cycle and swelling-induced activation of a <i>Caenorhabditis elegans</i> CIC channel is mediated by CeGLC-7 phosphatases. <i>Journal of Cell Biology</i> , 2002, 158, 435-444.	5.2	46
16	Discovery and Characterization of a Potent and Selective Inhibitor of <i>Aedes aegypti</i> Inward Rectifier Potassium Channels. <i>PLoS ONE</i> , 2014, 9, e110772.	2.5	40
17	Discovery, Characterization, and Structure-Activity Relationships of an Inhibitor of Inward Rectifier Potassium (Kir) Channels with Preference for Kir2.3, Kir3.X, and Kir7.1. <i>Frontiers in Pharmacology</i> , 2011, 2, 75.	3.5	39
18	Discovery, Characterization, and Effects on Renal Fluid and Electrolyte Excretion of the Kir4.1 Potassium Channel Pore Blocker, VU0134992. <i>Molecular Pharmacology</i> , 2018, 94, 926-937.	2.3	39

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19	Pharmacological Correction of Trafficking Defects in ATP-sensitive Potassium Channels Caused by Sulfonylurea Receptor 1 Mutations. <i>Journal of Biological Chemistry</i> , 2016, 291, 21971-21983.	3.4	37
20	Direct Activation of <i>Xenopus</i> -Cell K _{ATP} Channels with a Novel Xanthine Derivative. <i>Molecular Pharmacology</i> , 2014, 85, 858-865.	2.3	34
21	Malpighian Tubules as Novel Targets for Mosquito Control. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 111.	2.6	34
22	Pharmacological Validation of an Inward-Rectifier Potassium (Kir) Channel as an Insecticide Target in the Yellow Fever Mosquito <i>Aedes aegypti</i> . <i>PLoS ONE</i> , 2014, 9, e100700.	2.5	33
23	The Kir channel immunoglobulin domain is essential for Kir1.1 (ROMK) thermodynamic stability, trafficking and gating. <i>Channels</i> , 2009, 3, 57-68.	2.8	31
24	Development and Validation of Fluorescence-Based and Automated Patch Clamp-Based Functional Assays for the Inward Rectifier Potassium Channel Kir4.1. <i>Assay and Drug Development Technologies</i> , 2013, 11, 532-543.	1.2	28
25	Novel diuretic targets. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 305, F931-F942.	2.7	27
26	Molecular and functional characterization of <i>Anopheles gambiae</i> inward rectifier potassium (Kir1) channels: A novel role in egg production. <i>Insect Biochemistry and Molecular Biology</i> , 2014, 51, 10-19.	2.7	27
27	Localization and role of inward rectifier K ⁺ channels in Malpighian tubules of the yellow fever mosquito <i>Aedes aegypti</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2015, 67, 59-73.	2.7	27
28	Alternative splicing of N- and C-termini of <i>C. elegans</i> CIC channel alters gating and sensitivity to external Cl ⁻ and H ⁺ . <i>Journal of Physiology</i> , 2004, 555, 97-114.	2.9	26
29	The shifting landscape of K _{ATP} channelopathies and the need for "sharper" therapeutics. <i>Future Medicinal Chemistry</i> , 2016, 8, 789-802.	2.3	25
30	Abnormal Electroretinogram after Kir7.1 Channel Suppression Suggests Role in Retinal Electrophysiology. <i>Scientific Reports</i> , 2017, 7, 10651.	3.3	24
31	Carboxy Terminus Splice Variation Alters CIC Channel Gating and Extracellular Cysteine Reactivity. <i>Biophysical Journal</i> , 2006, 90, 3570-3581.	0.5	21
32	Cardiac and renal inward rectifier potassium channel pharmacology: emerging tools for integrative physiology and therapeutics. <i>Current Opinion in Pharmacology</i> , 2014, 15, 7-15.	3.5	21
33	ML418: The First Selective, Sub-Micromolar Pore Blocker of Kir7.1 Potassium Channels. <i>ACS Chemical Neuroscience</i> , 2016, 7, 1013-1023.	3.5	21
34	VU0606170, a Selective Slack Channels Inhibitor, Decreases Calcium Oscillations in Cultured Cortical Neurons. <i>ACS Chemical Neuroscience</i> , 2020, 11, 3658-3671.	3.5	21
35	High-Throughput Screening of Myometrial Calcium-Mobilization to Identify Modulators of Uterine Contractility. <i>PLoS ONE</i> , 2015, 10, e0143243.	2.5	21
36	Computational and Functional Analyses of a Small-Molecule Binding Site in ROMK. <i>Biophysical Journal</i> , 2015, 108, 1094-1103.	0.5	20

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37	Targeting renal epithelial channels for the control of insect vectors. <i>Tissue Barriers</i> , 2015, 3, e1081861.	3.2	20
38	Discovery and Characterization of VU0529331, a Synthetic Small-Molecule Activator of Homomeric G Protein-Gated, Inwardly Rectifying, Potassium (GIRK) Channels. <i>ACS Chemical Neuroscience</i> , 2019, 10, 358-370.	3.5	20
39	Excretion of NaCl and KCl loads in mosquitoes. 2. Effects of the small molecule Kir channel modulator VU573 and its inactive analog VU342. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R850-R861.	1.8	19
40	LRRC8A homohexameric channels poorly recapitulate VRAC regulation and pharmacology. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 320, C293-C303.	4.6	19
41	Next-generation inward rectifier potassium channel modulators: discovery and molecular pharmacology. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 320, C1125-C1140.	4.6	17
42	Dynamic expression of genes encoding subunits of inward rectifier potassium (Kir) channels in the yellow fever mosquito <i>Aedes aegypti</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2017, 204, 35-44.	1.6	15
43	CysLT1 receptor antagonists pranlukast and zafirlukast inhibit LRRC8-mediated volume regulated anion channels independently of the receptor. <i>American Journal of Physiology - Cell Physiology</i> , 2019, 317, C857-C866.	4.6	15
44	The LRRC8 volume-regulated anion channel inhibitor, DCPIB, inhibits mitochondrial respiration independently of the channel. <i>Physiological Reports</i> , 2019, 7, e14303.	1.7	15
45	Lactate activation of I_{\pm} -cell KATP channels inhibits glucagon secretion by hyperpolarizing the membrane potential and reducing Ca^{2+} entry. <i>Molecular Metabolism</i> , 2020, 42, 101056.	6.5	15
46	G protein-coupled receptors differentially regulate glycosylation and activity of the inwardly rectifying potassium channel Kir7.1. <i>Journal of Biological Chemistry</i> , 2018, 293, 17739-17753.	3.4	14
47	Altered gating and regulation of a carboxy-terminal ClC channel mutant expressed in the <i>Caenorhabditis elegans</i> oocyte. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C1109-C1118.	4.6	13
48	ROMK inhibitor actions in the nephron probed with diuretics. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, F732-F737.	2.7	13
49	Pore Polarity and Charge Determine Differential Block of Kir1.1 and Kir7.1 Potassium Channels by Small-Molecule Inhibitor VU590. <i>Molecular Pharmacology</i> , 2017, 92, 338-346.	2.3	13
50	Structure-Activity Relationships, Pharmacokinetics, and Pharmacodynamics of the Kir6.2/SUR1-Specific Channel Opener VU0071063. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 370, 350-359.	2.5	13
51	A SWELL time to develop the molecular pharmacology of the volume-regulated anion channel (VRAC). <i>Channels</i> , 2022, 16, 27-36.	2.8	10
52	Inward rectifier potassium (Kir) channels in the soybean aphid <i>Aphis glycines</i> : Functional characterization, pharmacology, and toxicology. <i>Journal of Insect Physiology</i> , 2018, 110, 57-65.	2.0	9
53	Zinc pyrithione activates the volume-regulated anion channel through an antioxidant-sensitive mechanism. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 320, C1088-C1098.	4.6	8
54	Crosstalk between epithelial sodium channels ($ENaC$) and basolateral potassium channels ($K_{ir4.1}/K_{ir5.1}$) in the cortical collecting duct. <i>British Journal of Pharmacology</i> , 2022, 179, 2953-2968.	5.4	8

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55	VU6036720: The First Potent and Selective In Vitro Inhibitor of Heteromeric Kir4.1/5.1 Inward Rectifier Potassium Channels. <i>Molecular Pharmacology</i> , 2022, 101, 357-370.	2.3	7
56	Discovery and in Vitro Optimization of 3-Sulfamoylbenzamides as ROMK Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 125-130.	2.8	5
57	Towards a TREK-1/2 (TWIK-Related K ⁺ Channel 1 and 2) dual activator tool compound: Multi-dimensional optimization of BL-1249. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2019, 29, 1601-1604.	2.2	5
58	Pharmacological Inhibition of Inward Rectifier Potassium Channels Induces Lethality in Larval <i>Aedes aegypti</i> . <i>Insects</i> , 2018, 9, 163.	2.2	4
59	Discovery and Characterization of 2-Nitro-5-(4-(phenylsulfonyl)piperazin-1-yl)-N-(pyridin-4-ylmethyl)anilines as Novel Inhibitors of the <i>Aedes aegypti</i> Kir1 (<i>Ae</i> Kir1) Channel. <i>ACS Infectious Diseases</i> , 2019, 5, 917-931.	3.8	4
60	The Molecular Physiology and Toxicology of Inward Rectifier Potassium Channels in Insects. <i>Annual Review of Entomology</i> , 2022, 67, 125-142.	11.8	4
61	Further SAR on the (Phenylsulfonyl)piperazine Scaffold as Inhibitors of the <i>Aedes aegypti</i> Kir1 (<i>Ae</i> Kir) Channel and Larvicides. <i>ChemMedChem</i> , 2021, 16, 319-327.	3.2	3
62	Plight of the pore polar barrier. <i>Channels</i> , 2017, 11, 502-503.	2.8	2
63	Contribution of K _{ir} 4.1/K _{ir} 5.1 Channels to the Control of ENaC-Mediated Apical Sodium Transport in the Cortical Collecting Duct. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	2
64	ROMK (Kir1.1) pharmacology comes of age. <i>Channels</i> , 2015, 9, 119-120.	2.8	1
65	Druggability of the inward rectifier family: a hope for rare channelopathies?. <i>Future Medicinal Chemistry</i> , 2014, 6, 971-973.	2.3	0
66	Functional and Pore Properties of the LRRC8A Homomeric Channel are Distinct from Those of LRRC8 Chimeras and Heteromeres. <i>Biophysical Journal</i> , 2020, 118, 418a.	0.5	0
67	Role of Basolateral K _{ir} 4.1/K _{ir} 5.1 Channel in the Regulation of Electrolyte Balance and ENaC Activity in the Cortical Collecting Duct. <i>FASEB Journal</i> , 2021, 35, .	0.5	0
68	A novel fluorescence-based assay of ROMK1 K ⁺ channel function. <i>FASEB Journal</i> , 2006, 20, LB42.	0.5	0
69	Analysis of Kv7 K ⁺ channel function in <i>C. elegans</i> . <i>FASEB Journal</i> , 2006, 20, A800.	0.5	0
70	Splice variation of the cytoplasmic C-terminus of a <i>C. elegans</i> CIC channel alters functional properties and glutamate gate accessibility to extracellular ions. <i>FASEB Journal</i> , 2006, 20, .	0.5	0
71	Discovery of an inward rectifying potassium channel inhibitor with preference for Kir2.3 and Kir3. <i>FASEB Journal</i> , 2011, 25, .	0.5	0
72	X-ray structure-guided analysis of the VU591 binding site in ROMK. <i>FASEB Journal</i> , 2011, 25, 1041.13.	0.5	0

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73	Electrophysiological properties of cardiac myocytes in regenerating zebrafish hearts. FASEB Journal, 2012, 26, 1053.2.	0.5	0
74	Characterization of a Druggable Binding site in the Renal Outer Medullary Potassium Channel. FASEB Journal, 2012, 26, 867.7.	0.5	0
75	Discovery of an inward rectifying potassium channel inhibitor with preference for Kir2.3, Kir3.X and Kir7.1. FASEB Journal, 2012, 26, 695.14.	0.5	0
76	Structure&function analysis of a small&molecule binding site in Kir1.1 and Kir7.1 (1062.4). FASEB Journal, 2014, 28, 1062.4.	0.5	0
77	Development of novel inhibitors of swelling&activated LRRC8 anion channels. FASEB Journal, 2018, 32, 567.3.	0.5	0
78	Discovery, characterization, and preclinical development of a Kir4.1 (KCNJ10) inhibitor for the treatment of hypertension. FASEB Journal, 2018, 32, 829.8.	0.5	0
79	Development of Distal Nephron Diuretics Targeting Heteromeric Kir4.1/5.1 Potassium Channels. FASEB Journal, 2019, 33, 824.2.	0.5	0
80	Discovery of Pranlukast in a High&Throughput Screen for Novel Inhibitors of LRRC8 Volume Regulated Anion Channels. FASEB Journal, 2019, 33, 824.3.	0.5	0
81	K ATP channels in ductus arteriosus function and pathophysiology: mechanism of action and therapeutic potential. FASEB Journal, 2019, 33, 827.14.	0.5	0
82	Functional Characterization of Leucine&Rich Repeat Containing 8 A (LRRC8A) Homomeric Channel. FASEB Journal, 2019, 33, 707.3.	0.5	0
83	Discovery and characterization of a novel class of phenylsulfonylpiperazine containing compounds as inhibitors of the Aedes aegypti Kir1 (Ae Kir1) potassium channel. FASEB Journal, 2019, 33, 862.8.	0.5	0