

Alex M Dopico

List of Publications by Year in descending order

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56
papers

1,037
citations

471509

17
h-index

454955

30
g-index

59
all docs

59
docs citations

59
times ranked

838
citing authors

#	ARTICLE	IF	CITATIONS
1	Acute Alcohol Action and Desensitization of Ligand-Gated Ion Channels. <i>Pharmacological Reviews</i> , 2009, 61, 98-114.	16.0	87
2	Multiple Cholesterol Recognition/Interaction Amino Acid Consensus (CRAC) Motifs in Cytosolic C Tail of Slo1 Subunit Determine Cholesterol Sensitivity of Ca ²⁺ - and Voltage-gated K ⁺ (BK) Channels. <i>Journal of Biological Chemistry</i> , 2012, 287, 20509-20521.	3.4	82
3	Specificity of cholesterol and analogs to modulate BK channels points to direct sterol-channel protein interactions. <i>Journal of General Physiology</i> , 2011, 137, 93-110.	1.9	78
4	Calcium- and voltage-gated BK channels in vascular smooth muscle. <i>Pflügers Archiv European Journal of Physiology</i> , 2018, 470, 1271-1289.	2.8	73
5	An alcohol-sensing site in the calcium- and voltage-gated, large conductance potassium (BK) channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9313-9318.	7.1	67
6	Smooth Muscle Cholesterol Enables BK β 1 Subunit-Mediated Channel Inhibition and Subsequent Vasoconstriction Evoked by Alcohol. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 2410-2423.	2.4	49
7	Ethanol modulation of mammalian BK channels in excitable tissues: molecular targets and their possible contribution to alcohol-induced altered behavior. <i>Frontiers in Physiology</i> , 2014, 5, 466.	2.8	40
8	Cerebrovascular Dilation via Selective Targeting of the Cholane Steroid-Recognition Site in the BK Channel β 1-Subunit by a Novel Nonsteroidal Agent. <i>Molecular Pharmacology</i> , 2013, 83, 1030-1044.	2.3	38
9	Lipid regulation of BK channel function. <i>Frontiers in Physiology</i> , 2014, 5, 312.	2.8	35
10	Maternal alcohol exposure during mid-pregnancy dilates fetal cerebral arteries via endocannabinoid receptors. <i>Alcohol</i> , 2017, 61, 51-61.	1.7	33
11	A Glance at the Structural and Functional Diversity of Membrane Lipids. <i>Methods in Molecular Biology</i> , 2007, 400, 1-13.	0.9	29
12	Common structural features of cholesterol binding sites in crystallized soluble proteins. <i>Journal of Lipid Research</i> , 2017, 58, 1044-1054.	4.2	28
13	Modulation of BK Channels by Ethanol. <i>International Review of Neurobiology</i> , 2016, 128, 239-279.	2.0	26
14	Fetal Cerebral Circulation as Target of Maternal Alcohol Consumption. <i>Alcoholism: Clinical and Experimental Research</i> , 2018, 42, 1006-1018.	2.4	23
15	Cholesterol increases the open probability of cardiac K _{ACh} currents. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 2406-2413.	2.6	22
16	The Effect of Prenatal Alcohol Exposure on Fetal Growth and Cardiovascular Parameters in a Baboon Model of Pregnancy. <i>Reproductive Sciences</i> , 2018, 25, 1116-1123.	2.5	19
17	Distinct Sensitivity of Slo1 Channel Proteins to Ethanol. <i>Molecular Pharmacology</i> , 2013, 83, 235-244.	2.3	18
18	Regulation of BK Channel Activity by Cholesterol and Its Derivatives. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1115, 53-75.	1.6	18

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19	Calcium- and Voltage-gated Potassium (BK) Channel Activators in the 5 β -Cholanic Acid \pm Analogue Series with Modifications in the Lateral Chain. <i>ChemMedChem</i> , 2012, 7, 1784-1792.	3.2	16
20	Activation of Calcium- and Voltage-gated Potassium Channels of Large Conductance by Leukotriene B ₄ . <i>Journal of Biological Chemistry</i> , 2014, 289, 35314-35325.	3.4	16
21	Statin therapy exacerbates alcohol-induced constriction of cerebral arteries via modulation of ethanol-induced BK channel inhibition in vascular smooth muscle. <i>Biochemical Pharmacology</i> , 2017, 145, 81-93.	4.4	16
22	Distinct mechanisms underlying cholesterol protection against alcohol-induced BK channel inhibition and resulting vasoconstriction. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 1756-1766.	2.4	15
23	Endothelial Nitric Oxide Mediates Caffeine Antagonism of Alcohol-Induced Cerebral Artery Constriction. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2015, 356, 106-115.	2.5	14
24	Alcohol modulation of BK channel gating depends on β 2 subunit composition. <i>Journal of General Physiology</i> , 2016, 148, 419-440.	1.9	14
25	Extra-endothelial TRPV1 channels participate in alcohol and caffeine actions on cerebral artery diameter. <i>Alcohol</i> , 2018, 73, 45-55.	1.7	13
26	Type 2 ryanodine receptors are highly sensitive to alcohol. <i>FEBS Letters</i> , 2014, 588, 1659-1665.	2.8	12
27	Celastrol Dilates and Counteracts Ethanol-Induced Constriction of Cerebral Arteries. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2020, 375, 247-257.	2.5	12
28	Cholesterol activates BK channels by increasing KCNMB1 protein levels in the plasmalemma. <i>Journal of Biological Chemistry</i> , 2021, 296, 100381.	3.4	12
29	Both Transmembrane Domains of BK β 1 Subunits Are Essential to Confer the Normal Phenotype of β 1-Containing BK Channels. <i>PLoS ONE</i> , 2014, 9, e109306.	2.5	12
30	Differential distribution and functional impact of BK channel beta1 subunits across mesenteric, coronary, and different cerebral arteries of the rat. <i>Pflugers Archiv European Journal of Physiology</i> , 2017, 469, 263-277.	2.8	11
31	Enrichment of Mammalian Tissues and <i>Xenopus</i> Oocytes with Cholesterol. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	11
32	Regulation of Ca ²⁺ -Sensitive K ⁺ Channels by Cholesterol and Bile Acids via Distinct Channel Subunits and Sites. <i>Current Topics in Membranes</i> , 2017, 80, 53-93.	0.9	10
33	Age-Dependent Susceptibility to Alcohol-Induced Cerebral Artery Constriction. <i>Journal of Drug and Alcohol Research</i> , 2016, 5, 1-12.	0.9	9
34	Alcohol Use Disorders and Their Harmful Effects on the Contractility of Skeletal, Cardiac and Smooth Muscles. <i>Advances in Drug and Alcohol Research</i> , 2021, 1, .	2.5	9
35	Multi-generational pharmacophore modeling for ligands to the cholane steroid-recognition site in the β 1 modulatory subunit of the BKCa channel. <i>Journal of Molecular Graphics and Modelling</i> , 2014, 54, 174-183.	2.4	8
36	BK β 1 subunit-dependent facilitation of ethanol inhibition of BK current and cerebral artery constriction is mediated by the β 1 transmembrane domain 2. <i>British Journal of Pharmacology</i> , 2017, 174, 4430-4448.	5.4	8

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37	Voltage-Sensitive Potassium Channels of the BK Type and Their Coding Genes Are Alcohol Targets in Neurons. <i>Handbook of Experimental Pharmacology</i> , 2017, 248, 281-309.	1.8	7
38	Activation of human smooth muscle BK channels by hydrochlorothiazide requires cell integrity and the presence of BK β 1 subunit. <i>Acta Pharmacologica Sinica</i> , 2018, 39, 371-381.	6.1	7
39	Tyrosine 450 in the Voltage- and Calcium-Gated Potassium Channel of Large Conductance Channel Pore-Forming (slo1) Subunit Mediates Cholesterol Protection against Alcohol-Induced Constriction of Cerebral Arteries. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2018, 367, 234-244.	2.5	7
40	Gestational Age-Dependent Interplay between Endocannabinoid Receptors and Alcohol in Fetal Cerebral Arteries. , 2018, 08, .		6
41	BK channel-forming slo1 proteins mediate the brain artery constriction evoked by the neurosteroid pregnenolone. <i>Neuropharmacology</i> , 2021, 192, 108603.	4.1	5
42	Cholesterol Inhibition of Slo1 Channels Is Calcium-Dependent and Can Be Mediated by Either High-Affinity Calcium-Sensing Site in the Slo1 Cytosolic Tail. <i>Molecular Pharmacology</i> , 2022, 101, 132-143.	2.3	5
43	Cholesterol-induced Trafficking of beta1 Subunits Switches Modulation of BK Function by this Steroid from Inhibition to Activation. <i>Biophysical Journal</i> , 2020, 118, 109a-110a.	0.5	3
44	Cholesterol antagonism of alcohol inhibition of smooth muscle BK channel requires cell integrity and involves a protein kinase C-dependent mechanism(s). <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158874.	2.4	3
45	Large conductance voltage- and calcium-gated potassium channels (BK) in cerebral artery myocytes of perinatal fetal primates share several major characteristics with the adult phenotype. <i>PLoS ONE</i> , 2018, 13, e0203199.	2.5	2
46	Cannabinoid Interactions with Proteins: Insights from Structural Studies. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1162, 39-50.	1.6	2
47	Sodium 3-Hydroxyolean-12-en-30-Oate is a Novel and Selective Activator of β 1 Subunit-Containing BK Channels and thus Cerebral Artery Dilator. <i>Biophysical Journal</i> , 2012, 102, 133a-134a.	0.5	1
48	Role of the slo1 CRAC4 Motif in BK Channel's Ethanol Sensitivity. <i>Biophysical Journal</i> , 2017, 112, 112a.	0.5	1
49	Discovery of agonist-antagonist pairs for the modulation of Ca $[2]^+$ and voltage-gated K $^+$ channels of large conductance that contain beta1 subunits. <i>Bioorganic and Medicinal Chemistry</i> , 2022, 68, 116876.	3.0	1
50	Activating Ion Determines Differential Ethanol-Sensitivity of Slo Family Channels. <i>Biophysical Journal</i> , 2013, 104, 472a-473a.	0.5	0
51	Differential Expression of BK Channel Alpha and Beta1 Subunits in Rat Cerebral Arteries. <i>Biophysical Journal</i> , 2016, 110, 279a-280a.	0.5	0
52	Proteomics Analysis Points at Novel Cellular Partners for the KCNMB1 Protein Product. <i>Biophysical Journal</i> , 2019, 116, 541a-542a.	0.5	0
53	Membrane Lipids and Modulation of Vascular Smooth Muscle Ion Channels. , 2016, , 349-380.		0
54	Temporal Requirement for the Protective Effect of Dietary Cholesterol against Alcohol-Induced Vasoconstriction. <i>Journal of Drug and Alcohol Research</i> , 2020, 9, .	0.9	0

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55	Progesterone activates BK channels by binding to transmembrane amino acids of the channel β 1 regulatory subunit. <i>Biophysical Journal</i> , 2022, 121, 501a.	0.5	0
56	Modification of vascular receptor pharmacology by cholesterol: From molecular determinants to impact on arterial function. , 2022, , 825-851.		0