

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
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59
all docs

59
docs citations

59
times ranked

838
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Modification of vascular receptor pharmacology by cholesterol: From molecular determinants to impact on arterial function. , 2022, , 825-851.		0
4	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
5	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
6	BK channel-forming slo1 proteins mediate the brain artery constriction evoked by the neurosteroid pregnenolone. <i>Neuropharmacology</i> , 2021, 192, 108603.	4.1	5
7	Cholesterol activates BK channels by increasing KCNMB1 protein levels in the plasmalemma. <i>Journal of Biological Chemistry</i> , 2021, 296, 100381.	3.4	12
8	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
9	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
10	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
11	Enrichment of Mammalian Tissues and <i>Xenopus</i> Oocytes with Cholesterol. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	11
12	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
13	Cannabinoid Interactions with Proteins: Insights from Structural Studies. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1162, 39-50.	1.6	2
14	Proteomics Analysis Points at Novel Cellular Partners for the KCNMB1 Protein Product. <i>Biophysical Journal</i> , 2019, 116, 541a-542a.	0.5	0
15	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
16	Fetal Cerebral Circulation as Target of Maternal Alcohol Consumption. <i>Alcoholism: Clinical and Experimental Research</i> , 2018, 42, 1006-1018.	2.4	23
17	Extra-endothelial TRPV1 channels participate in alcohol and caffeine actions on cerebral artery diameter. <i>Alcohol</i> , 2018, 73, 45-55.	1.7	13
18	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

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19	Gestational Age-Dependent Interplay between Endocannabinoid Receptors and Alcohol in Fetal Cerebral Arteries. , 2018, 08, .		6
20	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. PLoS ONE, 2018, 13, e0203199.	2.5	2
21	Calcium- and voltage-gated BK channels in vascular smooth muscle. Pflugers Archiv European Journal of Physiology, 2018, 470, 1271-1289.	2.8	73
22	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. Journal of Pharmacology and Experimental Therapeutics, 2018, 367, 234-244.	2.5	7
23	The Effect of Prenatal Alcohol Exposure on Fetal Growth and Cardiovascular Parameters in a Baboon Model of Pregnancy. Reproductive Sciences, 2018, 25, 1116-1123.	2.5	19
24	Differential distribution and functional impact of BK channel beta1 subunits across mesenteric, coronary, and different cerebral arteries of the rat. Pflugers Archiv European Journal of Physiology, 2017, 469, 263-277.	2.8	11
25	Common structural features of cholesterol binding sites in crystallized soluble proteins. Journal of Lipid Research, 2017, 58, 1044-1054.	4.2	28
26	Maternal alcohol exposure during mid-pregnancy dilates fetal cerebral arteries via endocannabinoid receptors. Alcohol, 2017, 61, 51-61.	1.7	33
27	Role of the slo1 CRAC4 Motif in BK Channel's Ethanol Sensitivity. Biophysical Journal, 2017, 112, 112a.	0.5	1
28	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. British Journal of Pharmacology, 2017, 174, 4430-4448.	5.4	8
29	Voltage-Sensitive Potassium Channels of the BK Type and Their Coding Genes Are Alcohol Targets in Neurons. Handbook of Experimental Pharmacology, 2017, 248, 281-309.	1.8	7
30	Regulation of Ca ²⁺ -Sensitive K ⁺ Channels by Cholesterol and Bile Acids via Distinct Channel Subunits and Sites. Current Topics in Membranes, 2017, 80, 53-93.	0.9	10
31	Statin therapy exacerbates alcohol-induced constriction of cerebral arteries via modulation of ethanol-induced BK channel inhibition in vascular smooth muscle. Biochemical Pharmacology, 2017, 145, 81-93.	4.4	16
32	Modulation of BK Channels by Ethanol. International Review of Neurobiology, 2016, 128, 239-279.	2.0	26
33	Distinct mechanisms underlying cholesterol protection against alcohol-induced BK channel inhibition and resulting vasoconstriction. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1756-1766.	2.4	15
34	Alcohol modulation of BK channel gating depends on β 2 subunit composition. Journal of General Physiology, 2016, 148, 419-440.	1.9	14
35	Differential Expression of BK Channel Alpha and Beta1 Subunits in Rat Cerebral Arteries. Biophysical Journal, 2016, 110, 279a-280a.	0.5	0
36	Age-Dependent Susceptibility to Alcohol-Induced Cerebral Artery Constriction. Journal of Drug and Alcohol Research, 2016, 5, 1-12.	0.9	9

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37	Membrane Lipids and Modulation of Vascular Smooth Muscle Ion Channels. , 2016, , 349-380.		0
38	Endothelial Nitric Oxide Mediates Caffeine Antagonism of Alcohol-Induced Cerebral Artery Constriction. Journal of Pharmacology and Experimental Therapeutics, 2015, 356, 106-115.	2.5	14
39	Cholesterol increases the open probability of cardiac K _{ACh} currents. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2406-2413.	2.6	22
40	Activation of Calcium- and Voltage-gated Potassium Channels of Large Conductance by Leukotriene B ₄ . Journal of Biological Chemistry, 2014, 289, 35314-35325.	3.4	16
41	Lipid regulation of BK channel function. Frontiers in Physiology, 2014, 5, 312.	2.8	35
42	Ethanol modulation of mammalian BK channels in excitable tissues: molecular targets and their possible contribution to alcohol-induced altered behavior. Frontiers in Physiology, 2014, 5, 466.	2.8	40
43	Type 2 ryanodine receptors are highly sensitive to alcohol. FEBS Letters, 2014, 588, 1659-1665.	2.8	12
44	Multi-generational pharmacophore modeling for ligands to the cholane steroid-recognition site in the β 1 modulatory subunit of the BK _{Ca} channel. Journal of Molecular Graphics and Modelling, 2014, 54, 174-183.	2.4	8
45	An alcohol-sensing site in the calcium- and voltage-gated, large conductance potassium (BK) channel. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9313-9318.	7.1	67
46	Both Transmembrane Domains of BK β 1 Subunits Are Essential to Confer the Normal Phenotype of β 1-Containing BK Channels. PLoS ONE, 2014, 9, e109306.	2.5	12
47	Cerebrovascular Dilation via Selective Targeting of the Cholane Steroid-Recognition Site in the BK Channel β 1-Subunit by a Novel Nonsteroidal Agent. Molecular Pharmacology, 2013, 83, 1030-1044.	2.3	38
48	Activating Ion Determines Differential Ethanol-Sensitivity of Slo Family Channels. Biophysical Journal, 2013, 104, 472a-473a.	0.5	0
49	Distinct Sensitivity of Slo1 Channel Proteins to Ethanol. Molecular Pharmacology, 2013, 83, 235-244.	2.3	18
50	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. Journal of Biological Chemistry, 2012, 287, 20509-20521.	3.4	82
51	Calcium- and Voltage-Gated Potassium (BK) Channel Activators in the β 1-Cholanic Acid β 1-Analogue Series with Modifications in the Lateral Chain. ChemMedChem, 2012, 7, 1784-1792.	3.2	16
52	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. Biophysical Journal, 2012, 102, 133a-134a.	0.5	1
53	Smooth Muscle Cholesterol Enables BK β 1 Subunit-Mediated Channel Inhibition and Subsequent Vasoconstriction Evoked by Alcohol. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2410-2423.	2.4	49
54	Specificity of cholesterol and analogs to modulate BK channels points to direct sterol-channel protein interactions. Journal of General Physiology, 2011, 137, 93-110.	1.9	78

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55	Acute Alcohol Action and Desensitization of Ligand-Gated Ion Channels. <i>Pharmacological Reviews</i> , 2009, 61, 98-114.	16.0	87
56	A Glance at the Structural and Functional Diversity of Membrane Lipids. <i>Methods in Molecular Biology</i> , 2007, 400, 1-13.	0.9	29