Anna N Bukiya

List of Publications by Year
in descending order

66 papers	1,497 citations	361045 20 h-index	360668 35 g-index
67 all docs	67 docs citations	67 times ranked	1035 citing authors

#	Article	IF	Citations
1	A molecular switch controls the impact of cholesterol on a Kir channel. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2109431119.	3.3	9
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. Molecular Pharmacology, 2022, 101, 132-143.	1.0	5
3	Common laboratory research methods for detection and quantification of cholesterol. , 2022, , 259-288.		2
4	Modification of vascular receptor pharmacology by cholesterol: From molecular determinants to impact on arterial function. , 2022, , 825-851.		0
5	Approaches for modifying cellular cholesterol levels and their application to mechanistic studies: Examples from the ion channel field. , 2022, , 289-340.		1
6	Discovery of agonistâ€“antagonist pairs for the modulation of Ca [2]+ and voltage-gated K+ channels of large conductance that contain beta1 subunits. Bioorganic and Medicinal Chemistry, 2022, 68, 116876.	1.4	1
7	Cholesterol antagonism of alcohol inhibition of smooth muscle BK channel requires cell integrity and involves a protein kinase C-dependent mechanism(s). Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 158874.	1.2	3
8	BK channel-forming slo1 proteins mediate the brain artery constriction evoked by the neurosteroid pregnenolone. Neuropharmacology, 2021, 192, 108603.	2.0	5
9	Cholesterol activates BK channels by increasing KCNMB1 protein levels in the plasmalemma. Journal of Biological Chemistry, 2021, 296, 100381.	1.6	12
10	Celastrol Dilates and Counteracts Ethanol-Induced Constriction of Cerebral Arteries. Journal of Pharmacology and Experimental Therapeutics, 2020, 375, 247-257.	1.3	12
11	Cholesterol-induced Trafficking of beta1 Subunits Switches Modulation of BK Function by this Steroid from Inhibition to Activation. Biophysical Journal, 2020, 118, 109a-110a.	0.2	3
12	Enrichment of Mammalian Tissues and Xenopus Oocytes with Cholesterol. Journal of Visualized Experiments, 2020, , .	0.2	11
13	Temporal Requirement for the Protective Effect of Dietary Cholesterol against Alcohol-Induced Vasoconstriction. Journal of Drug and Alcohol Research, 2020, 9, .	0.9	0
14	Physiology of the Endocannabinoid System During Development. Advances in Experimental Medicine and Biology, 2019, 1162, 13-37.	0.8	5
15	Cannabinoid Interactions with Proteins: Insights from Structural Studies. Advances in Experimental Medicine and Biology, 2019, 1162, 39-50.	0.8	2
16	Fetal Cerebral Artery Mitochondrion as Target of Prenatal Alcohol Exposure. International Journal of Environmental Research and Public Health, 2019, 16, 1586.	1.2	14
17	Molecular Determinants of Cholesterol Binding to Soluble and Transmembrane Protein Domains. Advances in Experimental Medicine and Biology, 2019, 1135, 47-66.	0.8	10
18	Proteomic Analysis of Baboon Cerebral Artery Reveals Potential Pathways of Damage by Prenatal Alcohol Exposure*. Molecular and Cellular Proteomics, 2019, 18, 294-307.	2.5	8

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19	Cholesterol intake and statin use regulate neuronal G protein-gated inwardly rectifying potassium channels. Journal of Lipid Research, 2019, 60, 19-29.	2.0	19
20	Regulation of BK Channel Activity by Cholesterol and Its Derivatives. Advances in Experimental Medicine and Biology, 2019, 1115, 53-75.	0.8	18
21	Fetal Cerebral Circulation as Target of Maternal Alcohol Consumption. Alcoholism: Clinical and Experimental Research, 2018, 42, 1006-1018.	1.4	23
22	Extra-endothelial TRPV1 channels participate in alcohol and caffeine actions on cerebral artery diameter. Alcohol, 2018, 73, 45-55.	0.8	13
23	Gestational Age-Dependent Interplay between Endocannabinoid Receptors and Alcohol in Fetal Cerebral Arteries. , 2018, 08, .		6
24	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.	1.1	2
25	Calcium- and voltage-gated BK channels in vascular smooth muscle. Pflugers Archiv European Journal of Physiology, 2018, 470, 1271-1289.	1.3	73
26	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.	1.3	7
27	The Effect of Prenatal Alcohol Exposure on Fetal Growth and Cardiovascular Parameters in a Baboon Model of Pregnancy. Reproductive Sciences, 2018, 25, 1116-1123.	1.1	19
28	Prenatal Alcohol Exposure, Anesthesia, and Fetal Loss in Baboon Model of Pregnancy. Journal of Drug and Alcohol Research, 2018, 7, .	0.9	1
29	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.	1.3	11
30	Cholesterol up-regulates neuronal G protein-gated inwardly rectifying potassium (GIRK) channel activity in the hippocampus. Journal of Biological Chemistry, 2017, 292, 6135-6147.	1.6	37
31	Common structural features of cholesterol binding sites in crystallized soluble proteins. Journal of Lipid Research, 2017, 58, 1044-1054.	2.0	28
32	Maternal alcohol exposure during mid-pregnancy dilates fetal cerebral arteries via endocannabinoid receptors. Alcohol, 2017, 61, 51-61.	0.8	33
33	Synergistic activation of G protein-gated inwardly rectifying potassium channels by cholesterol and PI(4,5)P 2. Biochimica Et Biophysica Acta - Biomembranes, 2017, 1859, 1233-1241.	1.4	17
34	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.	0.9	7
35	Regulation of Ca2+-Sensitive K+ Channels by Cholesterol and Bile Acids via Distinct Channel Subunits and Sites. Current Topics in Membranes, 2017, 80, 53-93.	0.5	10
36	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.	2.0	16

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37	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.	1.2	15
38	Age-Dependent Susceptibility to Alcohol-Induced Cerebral Artery Constriction. Journal of Drug and Alcohol Research, 2016, 5, 1-12.	0.9	9
39	Membrane Lipids and Modulation of Vascular Smooth Muscle Ion Channels. , 2016, , 349-380.		0
40	Endothelial Nitric Oxide Mediates Caffeine Antagonism of Alcohol-Induced Cerebral Artery Constriction. Journal of Pharmacology and Experimental Therapeutics, 2015, 356, 106-115.	1.3	14
41	Cholesterol increases the open probability of cardiac KACh currents. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 2406-2413.	1.4	22
42	Modulation of Neuronal GIRK Channels by Cholesterol. FASEB Journal, 2015, 29, 574.28.	0.2	0
43	Activation of Calcium- and Voltage-gated Potassium Channels of Large Conductance by Leukotriene B4. Journal of Biological Chemistry, 2014, 289, 35314-35325.	1.6	16
44	Lipid regulation of BK channel function. Frontiers in Physiology, 2014, 5, 312.	1.3	35
45	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.	1.3	40
46	Type 2 ryanodine receptors are highly sensitive to alcohol. FEBS Letters, 2014, 588, 1659-1665.	1.3	12
47	Dietary Cholesterol Protects Against Alcoholâ€Induced Cerebral Artery Constriction. Alcoholism: Clinical and Experimental Research, 2014, 38, 1216-1226.	1.4	28
48	Multi-generational pharmacophore modeling for ligands to the cholane steroid-recognition site in the Î²1 modulatory subunit of the BKCa channel. Journal of Molecular Graphics and Modelling, 2014, 54, 174-183.	1.3	8
49	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.	3.3	67
50	Cerebrovascular Dilation via Selective Targeting of the Cholane Steroid-Recognition Site in the BK Channel <i>Î²</i>1-Subunit by a Novel Nonsteroidal Agent. Molecular Pharmacology, 2013, 83, 1030-1044.	1.0	38
51	Distinct Sensitivity of Slo1 Channel Proteins to Ethanol. Molecular Pharmacology, 2013, 83, 235-244.	1.0	18
52	Multiple Cholesterol Recognition/Interaction Amino Acid Consensus (CRAC) Motifs in Cytosolic C Tail of Slo1 Subunit Determine Cholesterol Sensitivity of Ca2+- and Voltage-gated K+ (BK) Channels. Journal of Biological Chemistry, 2012, 287, 20509-20521.	1.6	82
53	Hypercholesterolemia Induces Up-regulation of KACh Cardiac Currents via a Mechanism Independent of Phosphatidylinositol 4,5-Bisphosphate and GÎ²Î³. Journal of Biological Chemistry, 2012, 287, 4925-4935.	1.6	36
54	Calciumâ€and Voltageâ€Gated Potassium (BK) Channel Activators in the 5Î²â€Cholanic Acidâ€3Î±â€ol Analogue Series with Modifications in the Lateral Chain. ChemMedChem, 2012, 7, 1784-1792.	1.6	16

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55	Sodium 3-Hydroxyolean-12-en-30-Oate is a Novel and Selective Activator of Î²1 Subunit-Containing BK Channels and thus Cerebral Artery Dilator. Biophysical Journal, 2012, 102, 133a-134a.	0.2	1
56	Large conductance, calcium- and voltage-gated potassium (BK) channels: Regulation by cholesterol. , 2012, 135, 133-150.		74
57	Smooth Muscle Cholesterol Enables BK Î²1 Subunit-Mediated Channel Inhibition and Subsequent Vasoconstriction Evoked by Alcohol. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2410-2423.	1.1	49
58	Specificity of cholesterol and analogs to modulate BK channels points to direct sterolâ€“channel protein interactions. Journal of General Physiology, 2011, 137, 93-110.	0.9	78
59	The steroid interaction site in transmembrane domain 2 of the large conductance, voltage- and calcium-gated potassium (BK) channel accessory Î²1 subunit. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20207-20212.	3.3	45
60	The BK channel accessory Î²₁ subunit determines alcoholâ€induced cerebrovascular constriction. FEBS Letters, 2009, 583, 2779-2784.	1.3	61
61	Channel Î²2â€“4 subunits fail to substitute for Î²1 in sensitizing BK channels to lithocholate. Biochemical and Biophysical Research Communications, 2009, 390, 995-1000.	1.0	40
62	Design and synthesis of hydroxy-alkynoic acids and their methyl esters as novel activators of BK channels. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 3427-3430.	1.0	9
63	The second transmembrane domain of the large conductance, voltageâ€and calciumâ€gated potassium channel <i>Î²</i>₁ subunit is a lithocholate sensor. FEBS Letters, 2008, 582, 673-678.	1.3	41
64	Direct Regulation of BK Channels by Phosphatidylinositol 4,5-Bisphosphate as a Novel Signaling Pathway. Journal of General Physiology, 2008, 132, 13-28.	0.9	90
65	Structural determinants of monohydroxylated bile acids to activate Î²1 subunit-containing BK channels. Journal of Lipid Research, 2008, 49, 2441-2451.	2.0	28
66	Î²1 (KCNMB1) Subunits Mediate Lithocholate Activation of Large-Conductance Ca2+-Activated K+ Channels and Dilation in Small, Resistance-Size Arteries. Molecular Pharmacology, 2007, 72, 359-369.	1.0	79