Jose Ramon Lopez Lopez

List of Publications by Year
in descending order

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58 papers	3,362 citations	159585 30 h-index	149698 56 g-index
60 all docs	60 docs citations	60 times ranked	2456 citing authors

#	Article	IF	Citations
1	Chemotransduction in the carotid body: K+ current modulated by PO2 in type I chemoreceptor cells. Science, 1988, 241, 580-582.	12.6	519
2	TRPA1 channels mediate acute neurogenic inflammation and pain produced by bacterial endotoxins. Nature Communications, 2014, 5, 3125.	12.8	361
3	Local control of excitationâ€contraction coupling in rat heart cells.. Journal of Physiology, 1994, 474, 463-471.	2.9	248
4	Low pO2 selectively inhibits K channel activity in chemoreceptor cells of the mammalian carotid body.. Journal of General Physiology, 1989, 93, 1001-1015.	1.9	191
5	Local, stochastic release of Ca2+ in voltageâ€clamped rat heart cells: visualization with confocal microscopy.. Journal of Physiology, 1994, 480, 21-29.	2.9	153
6	KvÎ²1.2 Subunit Coexpression in HEK293 Cells Confers O2 Sensitivity to Kv4.2 but not to Shaker Channels. Journal of General Physiology, 1999, 113, 897-907.	1.9	150
7	O₂Modulates Large-Conductance Ca²⁺-Dependent K⁺Channels of Rat Chemoreceptor Cells by a Membrane-Restricted and CO-Sensitive Mechanism. Circulation Research, 2001, 89, 430-436.	4.5	148
8	Ionic currents in dispersed chemoreceptor cells of the mammalian carotid body.. Journal of General Physiology, 1989, 93, 979-999.	1.9	98
9	Characterization of the Kv channels of mouse carotid body chemoreceptor cells and their role in oxygen sensing. Journal of Physiology, 2004, 557, 457-471.	2.9	79
10	Properties of a transient K+ current in chemoreceptor cells of rabbit carotid body.. Journal of Physiology, 1993, 460, 15-32.	2.9	77
11	Properties of ionic currents from isolated adult rat carotid body chemoreceptor cells: effect of hypoxia.. Journal of Physiology, 1997, 499, 429-441.	2.9	76
12	Molecular identification of KvÎ± subunits that contribute to the oxygenâ€sensitive K⁺ current of chemoreceptor cells of the rabbit carotid body. Journal of Physiology, 2002, 542, 369-382.	2.9	76
13	Time course of K+current inhibition by low oxygen in chemoreceptor cells of adult rabbit carotid body Effects of carbon monoxide. FEBS Letters, 1992, 299, 251-254.	2.8	74
14	Kv1.3 Channels Can Modulate Cell Proliferation During Phenotypic Switch by an Ion-Flux Independent Mechanism. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 1299-1307.	2.4	68
15	Release of dopamine and chemoreceptor discharge induced by low pH and high PCO2 stimulation of the cat carotid body.. Journal of Physiology, 1991, 433, 519-531.	2.9	64
16	The secret life of ion channels: Kv1.3 potassium channels and proliferation. American Journal of Physiology - Cell Physiology, 2018, 314, C27-C42.	4.6	63
17	Contribution of Kv Channels to Phenotypic Remodeling of Human Uterine Artery Smooth Muscle Cells. Circulation Research, 2005, 97, 1280-1287.	4.5	57
18	Characterization of Ion Channels Involved in the Proliferative Response of Femoral Artery Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1203-1211.	2.4	53

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19	Viral Gene Transfer of Dominant-Negative Kv4 Construct Suppresses an O₂-Sensitive K⁺Current in Chemoreceptor Cells. Journal of Neuroscience, 2000, 20, 5689-5695.	3.6	48
20	Cellular mechanisms of oxygen chemoreception in the carotid body. Respiration Physiology, 1995, 102, 137-147.	2.7	45
21	Differential modulation of Kv4.2 and Kv4.3 channels by calmodulin-dependent protein kinase II in rat cardiac myocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H1978-H1987.	3.2	45
22	<i>De novo</i> expression of Kv6.3 contributes to changes in vascular smooth muscle cell excitability in a hypertensive mice strain. Journal of Physiology, 2009, 587, 625-640.	2.9	45
23	Molecular Determinants of Kv1.3 Potassium Channels-induced Proliferation. Journal of Biological Chemistry, 2016, 291, 3569-3580.	3.4	43
24	Down regulation of Kv3.4 channels by chronic hypoxia increases acute oxygen sensitivity in rabbit carotid body. Journal of Physiology, 2005, 566, 395-408.	2.9	39
25	Carbon monoxide inhibits hypoxic pulmonary vasoconstriction in rats by a cGMP-independent mechanism. Pflugers Archiv European Journal of Physiology, 1997, 434, 698-704.	2.8	38
26	Comparative gene expression profile of mouse carotid body and adrenal medulla under physiological hypoxia. Journal of Physiology, 2005, 566, 491-503.	2.9	37
27	High blood pressure associates with the remodelling of inward rectifier K⁺ channels in mice mesenteric vascular smooth muscle cells. Journal of Physiology, 2012, 590, 6075-6091.	2.9	36
28	Kv1.3 channels modulate human vascular smooth muscle cells proliferation independently of mTOR signaling pathway. Pflugers Archiv European Journal of Physiology, 2015, 467, 1711-1722.	2.8	33
29	Ventilatory responses and carotid body function in adult rats perinatally exposed to hyperoxia. Journal of Physiology, 2004, 554, 126-144.	2.9	32
30	Oxygen sensitive Kv channels in the carotid body. Respiratory Physiology and Neurobiology, 2007, 157, 65-74.	1.6	32
31	Differences in TRPC3 and TRPC6 channels assembly in mesenteric vascular smooth muscle cells in essential hypertension. Journal of Physiology, 2017, 595, 1497-1513.	2.9	31
32	Cinnamaldehyde inhibits L-type calcium channels in mouse ventricular cardiomyocytes and vascular smooth muscle cells. Pflugers Archiv European Journal of Physiology, 2014, 466, 2089-2099.	2.8	30
33	Downâ€regulation of Ca_V1.2 channels during hypertension: how fewer Ca_V1.2 channels allow more Ca²⁺ into hypertensive arterial smooth muscle. Journal of Physiology, 2013, 591, 6175-6191.	2.9	29
34	Cell cycle-dependent expression of Kv3.4 channels modulates proliferation of human uterine artery smooth muscle cells. Cardiovascular Research, 2010, 86, 383-391.	3.8	24
35	Are Kv Channels the Essence of O ₂ Sensing?. Circulation Research, 2000, 86, 490-491.	4.5	21
36	MaxiK potassium channels in the function of chemoreceptor cells of the rat carotid body. American Journal of Physiology - Cell Physiology, 2009, 297, C715-C722.	4.6	20

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37	Phenotypic Modulation of Cultured Primary Human Aortic Vascular Smooth Muscle Cells by Uremic Serum. Frontiers in Physiology, 2018, 9, 89.	2.8	20
38	Inhibition of [3H]catecholamine release and Ca2+ currents by prostaglandin E2 in rabbit carotid body chemoreceptor cells.. Journal of Physiology, 1994, 476, 269-277.	2.9	18
39	K+ Channels Expression in Hypertension After Arterial Injury, and Effect of Selective Kv1.3 Blockade with PAP-1 on Intimal Hyperplasia Formation. Cardiovascular Drugs and Therapy, 2014, 28, 501-511.	2.6	17
40	Effects of Almitrine Bismesylate on the Ionic Currents of Chemoreceptor Cells from the Carotid Body. Molecular Pharmacology, 1998, 53, 330-339.	2.3	16
41	Oxygenâ€Sensitive Potassium Channels in Chemoreceptor Cell Physiology. Annals of the New York Academy of Sciences, 2009, 1177, 82-88.	3.8	16
42	Kv1.3 blockade inhibits proliferation of vascular smooth muscle cells in vitro and intimal hyperplasia in vivo. Translational Research, 2020, 224, 40-54.	5.0	11
43	Tungstate-Targeting of BKÎ±Î²1 Channels Tunes ERK Phosphorylation and Cell Proliferation in Human Vascular Smooth Muscle. PLoS ONE, 2015, 10, e0118148.	2.5	11
44	Kv channels and vascular smooth muscle cell proliferation. Microcirculation, 2018, 25, e12427.	1.8	9
45	Myocardin-Dependent Kv1.5 Channel Expression Prevents Phenotypic Modulation of Human Vessels in Organ Culture. Arteriosclerosis, Thrombosis, and Vascular Biology, 2019, 39, e273-e286.	2.4	8
46	Voltageâ€dependent conformational changes of Kv1.3 channels activate cell proliferation. Journal of Cellular Physiology, 2021, 236, 4330-4347.	4.1	8
47	An ASIC Channel for Acid Chemotransduction. Circulation Research, 2007, 101, 965-967.	4.5	7
48	A Role for DPPX Modulating External TEA Sensitivity of Kv4 Channels. Journal of General Physiology, 2008, 131, 455-471.	1.9	6
49	Proliferative Role of Kv11 Channels in Murine Arteries. Frontiers in Physiology, 2017, 8, 500.	2.8	6
50	Elastin-like recombinamer-based devices releasing Kv1.3 blockers for the prevention of intimal hyperplasia: An in vitro and in vivo study. Acta Biomaterialia, 2020, 115, 264-274.	8.3	6
51	miR-126 contributes to the epigenetic signature of diabetic vascular smooth muscle and enhances antirestenosis effects of Kv1.3 blockers. Molecular Metabolism, 2021, 53, 101306.	6.5	4
52	Lipin-1-derived diacylglycerol activates intracellular TRPC3 which is critical for inflammatory signaling. Cellular and Molecular Life Sciences, 2021, 78, 8243-8260.	5.4	4
53	Kv1.3 Channel Inhibition Limits Uremia-Induced Calcification in Mouse and Human Vascular Smooth Muscle. Function, 2020, 2, zqaa036.	2.3	2
54	The HERACLES Cardiovascular Network. Revista Espanola De Cardiologia (English Ed), 2008, 61, 66-75.	0.6	1

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55	Intracellular Ca2+ Deposits and Catecholamine Secretion by Chemoreceptor Cells of the Rabbit Carotid Body. Advances in Experimental Medicine and Biology, 1996, 410, 279-284.	1.6	1
56	Voltage-Dependent Accessibility of Phosphorylation Sites at the Carboxy-Terminal Domain of Kv1.3 Channels Determines Kv1.3-Induced Cell Proliferation. Biophysical Journal, 2016, 110, 526a-527a.	0.5	0
57	Voltage-Dependent Conformational Changes of KV1.3 Potassium Channels are an Essential Element for KV1.3-induced cell proliferation. Biophysical Journal, 2018, 114, 378a.	0.5	0
58	DPPX Modifies TEA Sensitivity of the Kv4 Channels in Rabbit Carotid Body Chemoreceptor Cells. Advances in Experimental Medicine and Biology, 2009, 648, 73-82.	1.6	0