

# Jose Ramon Lopez Lopez

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

3,362  
citations

159525

30  
h-index

149623

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 <sup>+</sup> current modulated by PO <sub>2</sub> in type I chemoreceptor cells. <i>Science</i> , 1988, 241, 580-582.	6.0	519
2	TRPA1 channels mediate acute neurogenic inflammation and pain produced by bacterial endotoxins. <i>Nature Communications</i> , 2014, 5, 3125.	5.8	361
3	Local control of excitation-contraction coupling in rat heart cells. <i>Journal of Physiology</i> , 1994, 474, 463-471.	1.3	248
4	Low pO <sub>2</sub> selectively inhibits K channel activity in chemoreceptor cells of the mammalian carotid body. <i>Journal of General Physiology</i> , 1989, 93, 1001-1015.	0.9	191
5	Local, stochastic release of Ca <sup>2+</sup> in voltage-clamped rat heart cells: visualization with confocal microscopy. <i>Journal of Physiology</i> , 1994, 480, 21-29.	1.3	153
6	Kv <sup>2.1.2</sup> Subunit Coexpression in HEK293 Cells Confers O <sub>2</sub> Sensitivity to Kv4.2 but not to Shaker Channels. <i>Journal of General Physiology</i> , 1999, 113, 897-907.	0.9	150
7	O <sub>2</sub> Modulates Large-Conductance Ca <sup>2+</sup> -Dependent K <sup>+</sup> Channels of Rat Chemoreceptor Cells by a Membrane-Restricted and CO-Sensitive Mechanism. <i>Circulation Research</i> , 2001, 89, 430-436.	2.0	148
8	Ionic currents in dispersed chemoreceptor cells of the mammalian carotid body. <i>Journal of General Physiology</i> , 1989, 93, 979-999.	0.9	98
9	Characterization of the Kv channels of mouse carotid body chemoreceptor cells and their role in oxygen sensing. <i>Journal of Physiology</i> , 2004, 557, 457-471.	1.3	79
10	Properties of a transient K <sup>+</sup> current in chemoreceptor cells of rabbit carotid body. <i>Journal of Physiology</i> , 1993, 460, 15-32.	1.3	77
11	Properties of ionic currents from isolated adult rat carotid body chemoreceptor cells: effect of hypoxia. <i>Journal of Physiology</i> , 1997, 499, 429-441.	1.3	76
12	Molecular identification of Kv <sup>1.2</sup> subunits that contribute to the oxygen-sensitive K <sup>+</sup> current of chemoreceptor cells of the rabbit carotid body. <i>Journal of Physiology</i> , 2002, 542, 369-382.	1.3	76
13	Time course of K <sup>+</sup> current inhibition by low oxygen in chemoreceptor cells of adult rabbit carotid body. <i>Effects of carbon monoxide. FEBS Letters</i> , 1992, 299, 251-254.	1.3	74
14	Kv1.3 Channels Can Modulate Cell Proliferation During Phenotypic Switch by an Ion-Flux Independent Mechanism. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 1299-1307.	1.1	68
15	Release of dopamine and chemoreceptor discharge induced by low pH and high PCO <sub>2</sub> stimulation of the cat carotid body. <i>Journal of Physiology</i> , 1991, 433, 519-531.	1.3	64
16	The secret life of ion channels: Kv1.3 potassium channels and proliferation. <i>American Journal of Physiology - Cell Physiology</i> , 2018, 314, C27-C42.	2.1	63
17	Contribution of Kv Channels to Phenotypic Remodeling of Human Uterine Artery Smooth Muscle Cells. <i>Circulation Research</i> , 2005, 97, 1280-1287.	2.0	57
18	Characterization of Ion Channels Involved in the Proliferative Response of Femoral Artery Smooth Muscle Cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 1203-1211.	1.1	53

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19	Viral Gene Transfer of Dominant-Negative Kv4 Construct Suppresses an O <sub>2</sub> -Sensitive K <sup>+</sup> Current in Chemoreceptor Cells. <i>Journal of Neuroscience</i> , 2000, 20, 5689-5695.	1.7	48
20	Cellular mechanisms of oxygen chemoreception in the carotid body. <i>Respiration Physiology</i> , 1995, 102, 137-147.	2.8	45
21	Differential modulation of Kv4.2 and Kv4.3 channels by calmodulin-dependent protein kinase II in rat cardiac myocytes. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006, 291, H1978-H1987.	1.5	45
22	<i>De novo</i> expression of Kv6.3 contributes to changes in vascular smooth muscle cell excitability in a hypertensive mice strain. <i>Journal of Physiology</i> , 2009, 587, 625-640.	1.3	45
23	Molecular Determinants of Kv1.3 Potassium Channels-induced Proliferation. <i>Journal of Biological Chemistry</i> , 2016, 291, 3569-3580.	1.6	43
24	Down regulation of Kv3.4 channels by chronic hypoxia increases acute oxygen sensitivity in rabbit carotid body. <i>Journal of Physiology</i> , 2005, 566, 395-408.	1.3	39
25	Carbon monoxide inhibits hypoxic pulmonary vasoconstriction in rats by a cGMP-independent mechanism. <i>Pflügers Archiv European Journal of Physiology</i> , 1997, 434, 698-704.	1.3	38
26	Comparative gene expression profile of mouse carotid body and adrenal medulla under physiological hypoxia. <i>Journal of Physiology</i> , 2005, 566, 491-503.	1.3	37
27	High blood pressure associates with the remodelling of inward rectifier K <sup>+</sup> channels in mice mesenteric vascular smooth muscle cells. <i>Journal of Physiology</i> , 2012, 590, 6075-6091.	1.3	36
28	Kv1.3 channels modulate human vascular smooth muscle cells proliferation independently of mTOR signaling pathway. <i>Pflügers Archiv European Journal of Physiology</i> , 2015, 467, 1711-1722.	1.3	33
29	Ventilatory responses and carotid body function in adult rats perinatally exposed to hyperoxia. <i>Journal of Physiology</i> , 2004, 554, 126-144.	1.3	32
30	Oxygen sensitive Kv channels in the carotid body. <i>Respiratory Physiology and Neurobiology</i> , 2007, 157, 65-74.	0.7	32
31	Differences in TRPC3 and TRPC6 channels assembly in mesenteric vascular smooth muscle cells in essential hypertension. <i>Journal of Physiology</i> , 2017, 595, 1497-1513.	1.3	31
32	Cinnamaldehyde inhibits L-type calcium channels in mouse ventricular cardiomyocytes and vascular smooth muscle cells. <i>Pflügers Archiv European Journal of Physiology</i> , 2014, 466, 2089-2099.	1.3	30
33	Downregulation of Ca <sub>v</sub> 1.2 channels during hypertension: how fewer Ca <sub>v</sub> 1.2 channels allow more Ca <sup>2+</sup> into hypertensive arterial smooth muscle. <i>Journal of Physiology</i> , 2013, 591, 6175-6191.	1.3	29
34	Cell cycle-dependent expression of Kv3.4 channels modulates proliferation of human uterine artery smooth muscle cells. <i>Cardiovascular Research</i> , 2010, 86, 383-391.	1.8	24
35	Are Kv Channels the Essence of O <sub>2</sub> Sensing?. <i>Circulation Research</i> , 2000, 86, 490-491.	2.0	21
36	MaxiK potassium channels in the function of chemoreceptor cells of the rat carotid body. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 297, C715-C722.	2.1	20

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37	Phenotypic Modulation of Cultured Primary Human Aortic Vascular Smooth Muscle Cells by Uremic Serum. <i>Frontiers in Physiology</i> , 2018, 9, 89.	1.3	20
38	Inhibition of [3H]catecholamine release and Ca <sup>2+</sup> currents by prostaglandin E2 in rabbit carotid body chemoreceptor cells.. <i>Journal of Physiology</i> , 1994, 476, 269-277.	1.3	18
39	K <sup>+</sup> Channels Expression in Hypertension After Arterial Injury, and Effect of Selective Kv1.3 Blockade with PAP-1 on Intimal Hyperplasia Formation. <i>Cardiovascular Drugs and Therapy</i> , 2014, 28, 501-511.	1.3	17
40	Effects of Almitrine Bismesylate on the Ionic Currents of Chemoreceptor Cells from the Carotid Body. <i>Molecular Pharmacology</i> , 1998, 53, 330-339.	1.0	16
41	Oxygen-sensitive Potassium Channels in Chemoreceptor Cell Physiology. <i>Annals of the New York Academy of Sciences</i> , 2009, 1177, 82-88.	1.8	16
42	Kv1.3 blockade inhibits proliferation of vascular smooth muscle cells in vitro and intimal hyperplasia in vivo. <i>Translational Research</i> , 2020, 224, 40-54.	2.2	11
43	Tungstate-Targeting of BK <sub>1.3</sub> Channels Tunes ERK Phosphorylation and Cell Proliferation in Human Vascular Smooth Muscle. <i>PLoS ONE</i> , 2015, 10, e0118148.	1.1	11
44	Kv channels and vascular smooth muscle cell proliferation. <i>Microcirculation</i> , 2018, 25, e12427.	1.0	9
45	Myocardin-Dependent Kv1.5 Channel Expression Prevents Phenotypic Modulation of Human Vessels in Organ Culture. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, e273-e286.	1.1	8
46	Voltage-dependent conformational changes of Kv1.3 channels activate cell proliferation. <i>Journal of Cellular Physiology</i> , 2021, 236, 4330-4347.	2.0	8
47	An ASIC Channel for Acid Chemotransduction. <i>Circulation Research</i> , 2007, 101, 965-967.	2.0	7
48	A Role for DPPX Modulating External TEA Sensitivity of Kv4 Channels. <i>Journal of General Physiology</i> , 2008, 131, 455-471.	0.9	6
49	Proliferative Role of Kv11 Channels in Murine Arteries. <i>Frontiers in Physiology</i> , 2017, 8, 500.	1.3	6
50	Elastin-like recombinamer-based devices releasing Kv1.3 blockers for the prevention of intimal hyperplasia: An in vitro and in vivo study. <i>Acta Biomaterialia</i> , 2020, 115, 264-274.	4.1	6
51	miR-126 contributes to the epigenetic signature of diabetic vascular smooth muscle and enhances antirestenosis effects of Kv1.3 blockers. <i>Molecular Metabolism</i> , 2021, 53, 101306.	3.0	4
52	Lipin-1-derived diacylglycerol activates intracellular TRPC3 which is critical for inflammatory signaling. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 8243-8260.	2.4	4
53	Kv1.3 Channel Inhibition Limits Uremia-Induced Calcification in Mouse and Human Vascular Smooth Muscle. <i>Function</i> , 2020, 2, zqaa036.	1.1	2
54	The HERACLES Cardiovascular Network. <i>Revista Espanola De Cardiologia (English Ed )</i> , 2008, 61, 66-75.	0.4	1

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55	Intracellular Ca <sup>2+</sup> Deposits and Catecholamine Secretion by Chemoreceptor Cells of the Rabbit Carotid Body. <i>Advances in Experimental Medicine and Biology</i> , 1996, 410, 279-284.	0.8	1
56	Voltage-Dependent Accessibility of Phosphorylation Sites at the Carboxy-Terminal Domain of Kv1.3 Channels Determines Kv1.3-Induced Cell Proliferation. <i>Biophysical Journal</i> , 2016, 110, 526a-527a.	0.2	0
57	Voltage-Dependent Conformational Changes of KV1.3 Potassium Channels are an Essential Element for KV1.3-induced cell proliferation. <i>Biophysical Journal</i> , 2018, 114, 378a.	0.2	0
58	DPPX Modifies TEA Sensitivity of the Kv4 Channels in Rabbit Carotid Body Chemoreceptor Cells. <i>Advances in Experimental Medicine and Biology</i> , 2009, 648, 73-82.	0.8	0