

# Carmen Valenzuela

## List of Publications by Citations

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94  
papers

2,532  
citations

29  
h-index

47  
g-index

114  
ext. papers

2,757  
ext. citations

6.3  
avg, IF

4.2  
L-index

#	Paper	IF	Citations
94	Pharmacology of cardiac potassium channels. <i>Cardiovascular Research</i> , <b>2004</b> , 62, 9-33	9.9	332
93	Stereoselective block of cardiac sodium channels by bupivacaine in guinea pig ventricular myocytes. <i>Circulation</i> , <b>1995</b> , 92, 3014-24	16.7	142
92	Stereoselective block of a human cardiac potassium channel (Kv1.5) by bupivacaine enantiomers. <i>Biophysical Journal</i> , <b>1995</b> , 69, 418-27	2.9	140
91	On the molecular nature of the lidocaine receptor of cardiac Na <sup>+</sup> channels. Modification of block by alterations in the alpha-subunit III-IV interdomain. <i>Circulation Research</i> , <b>1995</b> , 77, 584-92	15.7	99
90	Class III antiarrhythmic effects of zatebradine. Time-, state-, use-, and voltage-dependent block of hKv1.5 channels. <i>Circulation</i> , <b>1996</b> , 94, 562-70	16.7	72
89	Losartan and its metabolite E3174 modify cardiac delayed rectifier K(+) currents. <i>Circulation</i> , <b>2000</b> , 101, 1199-205	16.7	66
88	Immunomodulatory effects of diclofenac in leukocytes through the targeting of Kv1.3 voltage-dependent potassium channels. <i>Biochemical Pharmacology</i> , <b>2010</b> , 80, 858-66	6	65
87	Spirolactone and its main metabolite, canrenoic acid, block human ether-a-go-go-related gene channels. <i>Circulation</i> , <b>2003</b> , 107, 889-95	16.7	64
86	Effects of irbesartan on cloned potassium channels involved in human cardiac repolarization. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2003</b> , 304, 862-73	4.7	61
85	Immunomodulation of voltage-dependent K <sup>+</sup> channels in macrophages: molecular and biophysical consequences. <i>Journal of General Physiology</i> , <b>2010</b> , 135, 135-47	3.4	60
84	Molecular determinants of stereoselective bupivacaine block of hKv1.5 channels. <i>Circulation Research</i> , <b>1997</b> , 81, 1053-64	15.7	57
83	Block of human cardiac Kv1.5 channels by loratadine: voltage-, time- and use-dependent block at concentrations above therapeutic levels. <i>Cardiovascular Research</i> , <b>1997</b> , 35, 341-50	9.9	52
82	Structural determinants of potency and stereoselective block of hKv1.5 channels induced by local anesthetics. <i>Molecular Pharmacology</i> , <b>1998</b> , 54, 162-9	4.3	49
81	A new KCNQ1 mutation at the S5 segment that impairs its association with KCNE1 is responsible for short QT syndrome. <i>Cardiovascular Research</i> , <b>2015</b> , 107, 613-23	9.9	46
80	{Omega}-3 and {omega}-6 polyunsaturated fatty acids block HERG channels. <i>American Journal of Physiology - Cell Physiology</i> , <b>2005</b> , 289, C1251-60	5.4	44
79	Imipramine blocks rapidly activating and delays slowly activating K <sup>+</sup> current activation in guinea pig ventricular myocytes. <i>Circulation Research</i> , <b>1994</b> , 74, 687-99	15.7	40
78	Effects of ropivacaine on a potassium channel (hKv1.5) cloned from human ventricle. <i>Anesthesiology</i> , <b>1997</b> , 86, 718-28	4.3	39

77	Propafenone preferentially blocks the rapidly activating component of delayed rectifier K <sup>+</sup> current in guinea pig ventricular myocytes. Voltage-independent and time-dependent block of the slowly activating component. <i>Circulation Research</i> , <b>1995</b> , 76, 223-35	15.7	37
76	Effects of propafenone and 5-hydroxy-propafenone on hKv1.5 channels. <i>British Journal of Pharmacology</i> , <b>1998</b> , 125, 969-78	8.6	36
75	Effects of levobupivacaine, ropivacaine and bupivacaine on HERG channels: stereoselective bupivacaine block. <i>British Journal of Pharmacology</i> , <b>2002</b> , 137, 1269-79	8.6	35
74	Assembly with the Kvbeta1.3 subunit modulates drug block of hKv1.5 channels. <i>Molecular Pharmacology</i> , <b>2002</b> , 62, 1456-63	4.3	35
73	Interaction of angiotensin II with the angiotensin type 2 receptor inhibits the cardiac transient outward potassium current. <i>Cardiovascular Research</i> , <b>2004</b> , 62, 86-95	9.9	33
72	Putative binding sites for benzocaine on a human cardiac cloned channel (Kv1.5). <i>Cardiovascular Research</i> , <b>2002</b> , 56, 104-17	9.9	33
71	Direct effects of candesartan and eprosartan on human cloned potassium channels involved in cardiac repolarization. <i>Molecular Pharmacology</i> , <b>2001</b> , 59, 825-36	4.3	33
70	Gating of cardiac Na <sup>+</sup> channels in excised membrane patches after modification by alpha-chymotrypsin. <i>Biophysical Journal</i> , <b>1994</b> , 67, 161-71	2.9	33
69	Cell cycle-dependent expression of Kv1.5 is involved in myoblast proliferation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2008</b> , 1783, 728-36	4.9	32
68	Modulation of the atrial specific Kv1.5 channel by the n-3 polyunsaturated fatty acid, alpha-linolenic acid. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2008</b> , 44, 323-35	5.8	32
67	Activating transcription factor 6 derepression mediates neuroprotection in Huntington disease. <i>Journal of Clinical Investigation</i> , <b>2016</b> , 126, 627-38	15.9	32
66	Effects of n-3 Polyunsaturated Fatty Acids on Cardiac Ion Channels. <i>Frontiers in Physiology</i> , <b>2012</b> , 3, 245	4.6	30
65	Functional expression of an inactivating potassium channel (Kv4.3) in a mammalian cell line. <i>Cardiovascular Research</i> , <b>1999</b> , 41, 212-9	9.9	28
64	Effects of the two enantiomers, S-16257-2 and S-16260-2, of a new bradycardic agent on guinea-pig isolated cardiac preparations. <i>British Journal of Pharmacology</i> , <b>1995</b> , 115, 787-94	8.6	26
63	Irvallec inserts into the plasma membrane causing rapid loss of integrity and necrotic cell death in tumor cells. <i>PLoS ONE</i> , <b>2011</b> , 6, e19042	3.7	25
62	Modulation of voltage-dependent and inward rectifier potassium channels by 15-epi-lipoxin-A4 in activated murine macrophages: implications in innate immunity. <i>Journal of Immunology</i> , <b>2013</b> , 191, 6136-46	5.3	24
61	Celecoxib blocks cardiac Kv1.5, Kv4.3 and Kv7.1 (KCNQ1) channels: effects on cardiac action potentials. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2010</b> , 49, 984-92	5.8	23
60	Mechanisms of block of a human cloned potassium channel by the enantiomers of a new bradycardic agent: S-16257-2 and S-16260-2. <i>British Journal of Pharmacology</i> , <b>1996</b> , 117, 1293-301	8.6	23

59	Effects of rupatadine, a new dual antagonist of histamine and platelet-activating factor receptors, on human cardiac kv1.5 channels. <i>British Journal of Pharmacology</i> , <b>1999</b> , 128, 1071-81	8.6	22
58	Electrophysiological effects of 5-hydroxypropafenone on guinea pig ventricular muscle fibers. <i>Journal of Cardiovascular Pharmacology</i> , <b>1987</b> , 10, 523-9	3.1	22
57	Negative inotropic effect of somatostatin in guinea-pig atrial fibres. <i>British Journal of Pharmacology</i> , <b>1985</b> , 86, 547-55	8.6	22
56	Functional assembly of Kv7.1/Kv7.5 channels with emerging properties on vascular muscle physiology. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2014</b> , 34, 1522-30	9.4	21
55	Effects of propafenone and its main metabolite, 5-hydroxypropafenone, on HERG channels. <i>Cardiovascular Research</i> , <b>2003</b> , 57, 660-9	9.9	20
54	Blockade of cardiac potassium and other channels by antihistamines. <i>Drug Safety</i> , <b>1999</b> , 21 Suppl 1, 11-8; discussion 81-7	5.1	20
53	Ceramide inhibits Kv currents and contributes to TP-receptor-induced vasoconstriction in rat and human pulmonary arteries. <i>American Journal of Physiology - Cell Physiology</i> , <b>2011</b> , 301, C186-94	5.4	19
52	Ultrafast sodium channel block by dietary fish oil prevents dofetilide-induced ventricular arrhythmias in rabbit hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2008</b> , 295, H1414-21	5.2	19
51	Tonic and phasic Vmax block induced by 5-hydroxypropafenone in guinea pig ventricular muscles. <i>Journal of Cardiovascular Pharmacology</i> , <b>1988</b> , 12, 423-31	3.1	18
50	Voltage- and use-dependent modulation of calcium channel current in guinea pig ventricular cells by amiodarone and des-oxo-amiodarone. <i>Journal of Cardiovascular Pharmacology</i> , <b>1991</b> , 17, 894-902	3.1	17
49	Tonic and frequency-dependent Vmax block induced by imipramine in guinea pig ventricular muscle fibers. <i>Journal of Cardiovascular Pharmacology</i> , <b>1990</b> , 15, 414-20	3.1	17
48	Kvbeta1.3 reduces the degree of stereoselective bupivacaine block of Kv1.5 channels. <i>Anesthesiology</i> , <b>2007</b> , 107, 641-51	4.3	17
47	Marine n-3 PUFAs modulate IKs gating, channel expression, and location in membrane microdomains. <i>Cardiovascular Research</i> , <b>2015</b> , 105, 223-32	9.9	15
46	Protein kinase C (PKC) activity regulates functional effects of Kvβ.3 subunit on KV1.5 channels: identification of a cardiac Kv1.5 channelosome. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 21416-28	5.4	15
45	Effects of a quaternary bupivacaine derivative on delayed rectifier K(+) currents. <i>British Journal of Pharmacology</i> , <b>2000</b> , 130, 391-401	8.6	15
44	Comparative effects of nonsedating histamine H1 receptor antagonists, ebastine and terfenadine, on human Kv1.5 channels. <i>European Journal of Pharmacology</i> , <b>1997</b> , 326, 257-63	5.3	14
43	Effect of descarboethoxyloratadine, the major metabolite of loratadine, on the human cardiac potassium channel Kv1.5. <i>British Journal of Pharmacology</i> , <b>1997</b> , 122, 796-8	8.6	13
42	Benzocaine enhances and inhibits the K+ current through a human cardiac cloned channel (Kv1.5). <i>Cardiovascular Research</i> , <b>1999</b> , 42, 510-20	9.9	13

41	Electrophysiologic interactions between mexiletine and propafenone in guinea pig papillary muscles. <i>Journal of Cardiovascular Pharmacology</i> , <b>1989</b> , 14, 351-7	3.1	13
40	Activation of K <sub>7</sub> channels as a novel mechanism for NO/cGMP-induced pulmonary vasodilation. <i>British Journal of Pharmacology</i> , <b>2019</b> , 176, 2131-2145	8.6	11
39	Elisidepsin Interacts Directly with Glycosylceramides in the Plasma Membrane of Tumor Cells to Induce Necrotic Cell Death. <i>PLoS ONE</i> , <b>2015</b> , 10, e0140782	3.7	11
38	Electrophysiological effects of the combination of imipramine and desipramine in guinea pig papillary muscles. <i>Journal of Cardiovascular Pharmacology</i> , <b>1993</b> , 21, 13-20	3.1	11
37	Stereoselective interactions between local anesthetics and ion channels. <i>Chirality</i> , <b>2012</b> , 24, 944-50	2.1	10
36	Electromechanical effects of zatebradine on isolated guinea pig cardiac preparations. <i>Journal of Cardiovascular Pharmacology</i> , <b>1995</b> , 26, 46-54	3.1	10
35	Electrophysiological effects of E-3753, a new antiarrhythmic drug, in guinea-pig ventricular muscle. <i>British Journal of Pharmacology</i> , <b>1989</b> , 96, 970-6	8.6	10
34	Electrophysiologic interactions between mexiletine-quinidine and mexiletine-ropitoin in guinea pig papillary muscle. <i>Journal of Cardiovascular Pharmacology</i> , <b>1989</b> , 14, 783-9	3.1	10
33	Polyunsaturated Fatty acids modify the gating of kv channels. <i>Frontiers in Pharmacology</i> , <b>2012</b> , 3, 163	5.6	9
32	Voltage-dependent Na <sup>+</sup> channel phenotype changes in myoblasts. Consequences for cardiac repair. <i>Cardiovascular Research</i> , <b>2007</b> , 76, 430-41	9.9	9
31	Stereoselective effects of the enantiomers of a new local anaesthetic, IQB-9302, on a human cardiac potassium channel (Kv1.5). <i>British Journal of Pharmacology</i> , <b>2001</b> , 132, 385-92	8.6	9
30	Effects of 5-hydroxy-propafenone in guinea-pig atrial fibres. <i>British Journal of Pharmacology</i> , <b>1987</b> , 90, 575-82	8.6	9
29	In-Depth Study of the Interaction, Sensitivity, and Gating Modulation by PUFAs on K Channels; Interaction and New Targets. <i>Frontiers in Physiology</i> , <b>2016</b> , 7, 578	4.6	9
28	D242N, a K7.1 LQTS mutation uncovers a key residue for I voltage dependence. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2017</b> , 110, 61-69	5.8	8
27	Kv1.5-Kv beta interactions: molecular determinants and pharmacological consequences. <i>Mini-Reviews in Medicinal Chemistry</i> , <b>2010</b> , 10, 635-42	3.2	8
26	Class I and III antiarrhythmic actions of prazosin in guinea-pig papillary muscles. <i>British Journal of Pharmacology</i> , <b>1994</b> , 111, 717-22	8.6	8
25	The unconventional biogenesis of Kv7.1-KCNE1 complexes. <i>Science Advances</i> , <b>2020</b> , 6, eaay4472	14.3	7
24	Differential regulation of Na(v)beta subunits during myogenesis. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 368, 761-6	3.4	7

23	Bupivacaine effects on hKv1.5 channels are dependent on extracellular pH. <i>British Journal of Pharmacology</i> , <b>2001</b> , 134, 359-69	8.6	6
22	Electrophysiological effects of the combination of mexiletine and flecainide in guinea-pig ventricular fibres. <i>British Journal of Pharmacology</i> , <b>1991</b> , 103, 1411-6	8.6	6
21	The induction of NOS2 expression by the hybrid cecropin A-melittin antibiotic peptide CA(1-8)M(1-18) in the monocytic line RAW 264.7 is triggered by a temporary and reversible plasma membrane permeation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2006</b> , 1763, 110-9	4.9	5
20	Effects of lisinopril on cardiac contractility and ionic currents. <i>General Pharmacology</i> , <b>1994</b> , 25, 825-32		5
19	Targeting the neuronal calcium sensor DREAM with small-molecules for Huntington's disease treatment. <i>Scientific Reports</i> , <b>2019</b> , 9, 7260	4.9	4
18	Differential effect of <i>Androctonus australis</i> hector venom components on macrophage K channels: electrophysiological characterization. <i>European Biophysics Journal</i> , <b>2019</b> , 48, 1-13	1.9	4
17	Electrophysiological effects of CI-980, a tubulin binding agent, on guinea-pig papillary muscles. <i>British Journal of Pharmacology</i> , <b>1997</b> , 120, 187-92	8.6	4
16	Effects of lisinopril on electromechanical properties and membrane currents in guinea-pig cardiac preparations. <i>British Journal of Pharmacology</i> , <b>1993</b> , 109, 873-9	8.6	4
15	Electrophysiological effects of CRE-1087 in guinea-pig ventricular muscles. <i>British Journal of Pharmacology</i> , <b>1992</b> , 107, 515-20	8.6	4
14	Fludarabine Inhibits K1.3 Currents in Human B Lymphocytes. <i>Frontiers in Pharmacology</i> , <b>2017</b> , 8, 177	5.6	3
13	Pharmacological electrical remodelling in human atria induced by chronic beta-blockade. <i>Cardiovascular Research</i> , <b>2003</b> , 58, 498-500	9.9	3
12	Electrophysiological effects of amoxapine in untreated and in amoxapine-pretreated rat atria. <i>British Journal of Pharmacology</i> , <b>1986</b> , 87, 317-25	8.6	3
11	Identification of IQM-266, a Novel DREAM Ligand That Modulates K4 Currents. <i>Frontiers in Molecular Neuroscience</i> , <b>2019</b> , 12, 11	6.1	2
10	Re-Education of Tumor Associated Macrophages by Trabectedin. <i>Biophysical Journal</i> , <b>2019</b> , 116, 539a-540a		2
9	Tonic and frequency-dependent Vmax block induced by (S)-nafenodone, a new antidepressant drug, in guinea-pig papillary muscles. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , <b>1991</b> , 343, 638-44	4.4	2
8	PKC inhibition results in a Kv 1.5 + Kv 1.3 pharmacology closer to Kv 1.5 channels. <i>British Journal of Pharmacology</i> , <b>2014</b> , 171, 4914-26	8.6	1
7	Pharmacology of CRE-1087, A New Antiarrhythmic Drug. <i>Cardiovascular Drug Reviews</i> , <b>1992</b> , 10, 307-322		1
6	Stereoselective Drug-Channel Interactions. <i>Handbook of Experimental Pharmacology</i> , <b>2003</b> , 199-228	3.2	1

- 5 Identification of a critical binding site for local anaesthetics in the side pockets of K 1 channels. *British Journal of Pharmacology*, **2021**, 178, 3034-3048 8.6 1
- 4 K 1.3 channels are novel determinants of macrophage-dependent endothelial dysfunction in angiotensin II-induced hypertension in mice. *British Journal of Pharmacology*, **2021**, 178, 1836-1854 8.6 0
- 3 Graphene Particles Interfere with Pro-Inflammatory Polarization of Human Macrophages: Functional and Electrophysiological Evidence. *Advanced Biology*, **2021**, 5, e2100882 0
- 2 Graphene Particles Interfere with Pro-Inflammatory Polarization of Human Macrophages: Functional and Electrophysiological Evidence (Adv. Biology 11/2021). *Advanced Biology*, **2021**, 5, 2170113 0
- 1 Activation of Kv7 contributes to the relaxant effects of the NO/cGMP pathway in the pulmonary circulation. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, PO2-3-42 0