

Mauricio A Retamal

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,742
citations

185998

28
h-index

128067

60
g-index

71
all docs

71
docs citations

71
times ranked

3302
citing authors

#	ARTICLE	IF	CITATIONS
1	Cx43 Hemichannels and Gap Junction Channels in Astrocytes Are Regulated Oppositely by Proinflammatory Cytokines Released from Activated Microglia. <i>Journal of Neuroscience</i> , 2007, 27, 13781-13792.	1.7	423
2	Connexin-based gap junction hemichannels: Gating mechanisms. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005, 1711, 215-224.	1.4	345
3	S-nitrosylation and permeation through connexin 43 hemichannels in astrocytes: Induction by oxidant stress and reversal by reducing agents. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 4475-4480.	3.3	271
4	Extracellular Cysteine in Connexins: Role as Redox Sensors. <i>Frontiers in Physiology</i> , 2016, 7, 1.	1.3	247
5	Release of gliotransmitters through astroglial connexin 43 hemichannels is necessary for fear memory consolidation in the basolateral amygdala. <i>FASEB Journal</i> , 2012, 26, 3649-3657.	0.2	211
6	Cell membrane permeabilization via connexin hemichannels in living and dying cells. <i>Experimental Cell Research</i> , 2010, 316, 2377-2389.	1.2	168
7	Opening of connexin 43 hemichannels is increased by lowering intracellular redox potential. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8322-8327.	3.3	152
8	FGF-1 induces ATP release from spinal astrocytes in culture and opens pannexin and connexin hemichannels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22659-22664.	3.3	148
9	Intramolecular loop/tail interactions are essential for connexin 43 hemichannel activity. <i>FASEB Journal</i> , 2010, 24, 4378-4395.	0.2	142
10	Gap junction hemichannels in astrocytes of the CNS. <i>Acta Physiologica Scandinavica</i> , 2003, 179, 9-22.	2.3	126
11	Regulation of gap junction channels and hemichannels by phosphorylation and redox changes: a revision. <i>BMC Cell Biology</i> , 2016, 17, 11.	3.0	118
12	Connexin Hemichannel Composition Determines the FGF-1-induced Membrane Permeability and Free $[Ca^{2+}]_i$ Responses. <i>Molecular Biology of the Cell</i> , 2008, 19, 3501-3513.	0.9	91
13	Diseases associated with leaky hemichannels. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 267.	1.8	80
14	Gap junction channels and hemichannels in the CNS: Regulation by signaling molecules. <i>Neuropharmacology</i> , 2013, 75, 567-582.	2.0	78
15	Peptides and peptide-derived molecules targeting the intracellular domains of Cx43: Gap junctions versus hemichannels. <i>Neuropharmacology</i> , 2013, 75, 491-505.	2.0	78
16	Modulation of Cx46 hemichannels by nitric oxide. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 296, C1356-C1363.	2.1	66
17	Nitric oxide signaling in the retina: What have we learned in two decades?. <i>Brain Research</i> , 2012, 1430, 112-125.	1.1	61
18	Connexin and Pannexin hemichannels are regulated by redox potential. <i>Frontiers in Physiology</i> , 2014, 5, 80.	1.3	61

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19	Possible Involvement of Different Connexin43 Domains in Plasma Membrane Permeabilization Induced by Ischemia-Reperfusion. <i>Journal of Membrane Biology</i> , 2007, 218, 49-63.	1.0	51
20	Contribution of peripheral and central chemoreceptors to sympathoexcitation in heart failure. <i>Journal of Physiology</i> , 2017, 595, 43-51.	1.3	46
21	Connexinopathies: a structural and functional glimpse. <i>BMC Cell Biology</i> , 2016, 17, 17.	3.0	42
22	Synaptic Functions of Hemichannels and Pannexons: A Double-Edged Sword. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 435.	1.4	42
23	ATP Is Required and Advances Cytokine-Induced Gap Junction Formation in Microglia In Vitro. <i>Mediators of Inflammation</i> , 2013, 2013, 1-16.	1.4	40
24	Adenosine triphosphate-induced peripheral nerve discharges generated from the cat petrosal ganglion in vitro. <i>Neuroscience Letters</i> , 2000, 282, 185-188.	1.0	39
25	Opening of pannexin- and connexin-based channels increases the excitability of nodose ganglion sensory neurons. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 158.	1.8	38
26	Role of Astroglial Hemichannels and Pannexons in Memory and Neurodegenerative Diseases. <i>Frontiers in Integrative Neuroscience</i> , 2016, 10, 26.	1.0	34
27	Biphasic effect of linoleic acid on connexin 46 hemichannels. <i>Pflugers Archiv European Journal of Physiology</i> , 2011, 461, 635-643.	1.3	30
28	Linoleic acid induces opening of connexin26 hemichannels through a PI3K/Akt/Ca ²⁺ -dependent pathway. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 1169-1179.	1.4	30
29	Carbon Monoxide (CO) Is a Novel Inhibitor of Connexin Hemichannels. <i>Journal of Biological Chemistry</i> , 2014, 289, 36150-36157.	1.6	27
30	Extracellular gentamicin reduces the activity of connexin hemichannels and interferes with purinergic Ca ²⁺ signaling in HeLa cells. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 265.	1.8	25
31	Connexin43 Hemichannels in Satellite Glial Cells, Can They Influence Sensory Neuron Activity?. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 374.	1.4	25
32	Redox-mediated regulation of connexin proteins; focus on nitric oxide. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 91-95.	1.4	24
33	Connexin and Pannexin-Based Channels in Oligodendrocytes: Implications in Brain Health and Disease. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 3.	1.8	24
34	Connexin-46 Contained in Extracellular Vesicles Enhance Malignancy Features in Breast Cancer Cells. <i>Biomolecules</i> , 2020, 10, 676.	1.8	22
35	Cardiac remodeling and arrhythmogenesis are ameliorated by administration of Cx43 mimetic peptide Gap27 in heart failure rats. <i>Scientific Reports</i> , 2020, 10, 6878.	1.6	22
36	Cxs and Panx- hemichannels in peripheral and central chemosensing in mammals. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 123.	1.8	20

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37	Dopamine inhibits ATP-induced responses in the cat petrosal ganglion in vitro. <i>Brain Research</i> , 2003, 966, 283-287.	1.1	19
38	Interferon- β and high glucose-induced opening of Cx43 hemichannels causes endothelial cell dysfunction and damage. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2020, 1867, 118720.	1.9	17
39	Neuron-Glia Crosstalk in the Autonomic Nervous System and Its Possible Role in the Progression of Metabolic Syndrome: A New Hypothesis. <i>Frontiers in Physiology</i> , 2015, 6, 350.	1.3	15
40	Regulation of Connexins Expression Levels by MicroRNAs, an Update. <i>Frontiers in Physiology</i> , 2016, 7, 558.	1.3	15
41	4-Hydroxynonenal induces Cx46 hemichannel inhibition through its carbonylation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020, 1865, 158705.	1.2	15
42	Carbon monoxide: A new player in the redox regulation of connexin hemichannels. <i>IUBMB Life</i> , 2015, 67, 428-437.	1.5	14
43	Regulation of Connexin-Based Channels by Fatty Acids. <i>Frontiers in Physiology</i> , 2017, 8, 11.	1.3	14
44	Astroglial gliotransmitters released via Cx43 hemichannels regulate NMDAR-dependent transmission and short-term fear memory in the basolateral amygdala. <i>FASEB Journal</i> , 2022, 36, e22134.	0.2	14
45	Charged Residues at the First Transmembrane Region Contribute to the Voltage Dependence of the Slow Gate of Connexins. <i>Journal of Biological Chemistry</i> , 2016, 291, 15740-15752.	1.6	13
46	Gap-junctional channel and hemichannel activity of two recently identified connexin 26 mutants associated with deafness. <i>Pflugers Archiv European Journal of Physiology</i> , 2016, 468, 909-918.	1.3	13
47	Connexin46 Expression Enhances Cancer Stem Cell and Epithelial-to-Mesenchymal Transition Characteristics of Human Breast Cancer MCF-7 Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12604.	1.8	13
48	Contribution of Connexin Hemichannels to the Decreases in Cell Viability Induced by Linoleic Acid in the Human Lens Epithelial Cells (HLE-B3). <i>Frontiers in Physiology</i> , 2020, 10, 1574.	1.3	12
49	Voltage-dependent facilitation of Cx46 hemichannels. <i>American Journal of Physiology - Cell Physiology</i> , 2010, 298, C132-C139.	2.1	11
50	Functional hemichannels formed by human connexin 26 expressed in bacteria. <i>Bioscience Reports</i> , 2015, 35, .	1.1	11
51	Hemichannels; from the molecule to the function. <i>Frontiers in Physiology</i> , 2014, 5, 411.	1.3	10
52	Carbon Monoxide Modulates Connexin Function through a Lipid Peroxidation-Dependent Process: A Hypothesis. <i>Frontiers in Physiology</i> , 2016, 7, 259.	1.3	10
53	Cx46 hemichannel modulation by nitric oxide: Role of the fourth transmembrane helix cysteine and its possible involvement in cataract formation. <i>Nitric Oxide - Biology and Chemistry</i> , 2019, 86, 54-62.	1.2	10
54	Role of ROS/RNS in Preeclampsia: Are Connexins the Missing Piece?. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4698.	1.8	10

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55	Petrosal ganglion: a more complex role than originally imagined. <i>Frontiers in Physiology</i> , 2014, 5, 474.	1.3	7
56	Ion Channels in Inflammatory Processes: What Is Known and What Is Next?. <i>Mediators of Inflammation</i> , 2016, 2016, 1-1.	1.4	7
57	Connexin Hemichannel Activation by S-Nitrosoglutathione Synergizes Strongly with Photodynamic Therapy Potentiating Anti-Tumor Bystander Killing. <i>Cancers</i> , 2021, 13, 5062.	1.7	7
58	Editorial: Modulation of Ion Channels and Ionic Pumps by Fatty Acids: Implications in Physiology and Pathology. <i>Frontiers in Physiology</i> , 2018, 9, 1625.	1.3	6
59	Connexins in melanoma: Potential role of Cx46 in its aggressiveness. <i>Pigment Cell and Melanoma Research</i> , 2021, 34, 853-868.	1.5	6
60	Extracellular Cysteines Are Critical to Form Functional Cx46 Hemichannels. <i>International Journal of Molecular Sciences</i> , 2022, 23, 7252.	1.8	6
61	Over-activated hemichannels: A possible therapeutic target for human diseases. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2021, 1867, 166232.	1.8	5
62	Role and Posttranslational Regulation of Cx46 Hemichannels and Gap Junction Channels in the Eye Lens. <i>Frontiers in Physiology</i> , 2022, 13, 864948.	1.3	5
63	Potential use of n-3 PUFAs to prevent oxidative stress-derived ototoxicity caused by platinum-based chemotherapy. <i>Free Radical Biology and Medicine</i> , 2020, 160, 263-276.	1.3	3
64	Connexin in Lens Physiology and Cataract Formation. <i>Journal of Clinical & Experimental Ophthalmology</i> , 2013, 04, .	0.1	3
65	Are Polyunsaturated Fatty Acids Implicated in Histaminergic Dysregulation in Bipolar Disorder?: AN HYPOTHESIS. <i>Frontiers in Physiology</i> , 2018, 9, 693.	1.3	2
66	Is the Gain of Hemichannel Activity a Common Feature Shared by Cx26 Syndromic Deafness Mutants?. <i>Biophysical Journal</i> , 2013, 104, 492a-493a.	0.2	1
67	Topical Application of Connexin43 Hemichannel Blocker Reduces Carotid Body-Mediated Chemoreflex Drive in Rats. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1071, 61-68.	0.8	1
68	Linolenic and Linoleic Acid Induce the Opening of Connexin 43, 46 and 50 Hemichannel in Human HeLa Cells. <i>Biophysical Journal</i> , 2014, 106, 751a.	0.2	0
69	Purified Functional Human Connexin 26 Hemichannels Expressed in E.ÂColi. <i>Biophysical Journal</i> , 2014, 106, 761a.	0.2	0
70	Editorial: Physiology of Myelin Forming Cells, From Myelination to Neural Modulators. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 475.	1.8	0