

# Juan Andr s Orellana

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

3,892  
citations

109264

35  
h-index

133188

59  
g-index

62  
all docs

62  
docs citations

62  
times ranked

3245  
citing authors

#	ARTICLE	IF	CITATIONS
1	ATP and glutamate released via astroglial connexin 43 hemichannels mediate neuronal death through activation of pannexin 1 hemichannels. <i>Journal of Neurochemistry</i> , 2011, 118, 826-840.	2.1	324
2	Amyloid $\beta$ -Induced Death in Neurons Involves Glial and Neuronal Hemichannels. <i>Journal of Neuroscience</i> , 2011, 31, 4962-4977.	1.7	256
3	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
4	Modulation of Brain Hemichannels and Gap Junction Channels by Pro-Inflammatory Agents and Their Possible Role in Neurodegeneration. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 369-399.	2.5	205
5	Connexin and pannexin hemichannels in inflammatory responses of glia and neurons. <i>Brain Research</i> , 2012, 1487, 3-15.	1.1	177
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	Glucose increases intracellular free $Ca^{2+}$ in tanycytes via ATP released through connexin 43 hemichannels. <i>Glia</i> , 2012, 60, 53-68.	2.5	154
8	Inhibition of cytokine-induced connexin43 hemichannel activity in astrocytes is neuroprotective. <i>Molecular and Cellular Neurosciences</i> , 2010, 45, 37-46.	1.0	152
9	Hypoxia in high glucose followed by reoxygenation in normal glucose reduces the viability of cortical astrocytes through increased permeability of connexin 43 hemichannels. <i>Glia</i> , 2010, 58, 329-343.	2.5	142
10	The Role of Gap Junction Channels During Physiologic and Pathologic Conditions of the Human Central Nervous System. <i>Journal of NeuroImmune Pharmacology</i> , 2012, 7, 499-518.	2.1	110
11	Glial connexin expression and function in the context of Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2048-2057.	1.4	81
12	Restraint stress increases hemichannel activity in hippocampal glial cells and neurons. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 102.	1.8	80
13	Gap junction channels and hemichannels in the CNS: Regulation by signaling molecules. <i>Neuropharmacology</i> , 2013, 75, 567-582.	2.0	78
14	Hemichannels: New pathways for gliotransmitter release. <i>Neuroscience</i> , 2015, 286, 45-59.	1.1	78
15	Hemichannels: new roles in astroglial function. <i>Frontiers in Physiology</i> , 2014, 5, 193.	1.3	77
16	Currently Used Methods for Identification and Characterization of Hemichannels. <i>Cell Communication and Adhesion</i> , 2008, 15, 207-218.	1.0	74
17	Glial hemichannels and their involvement in aging and neurodegenerative diseases. <i>Reviews in the Neurosciences</i> , 2012, 23, 163-77.	1.4	72
18	Pannexin1 hemichannels are critical for HIV infection of human primary CD4+ T lymphocytes. <i>Journal of Leukocyte Biology</i> , 2013, 94, 399-407.	1.5	69

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19	HIV increases the release of dickkopf-1 protein from human astrocytes by a Cx43 hemichannel-dependent mechanism. <i>Journal of Neurochemistry</i> , 2014, 128, 752-763.	2.1	67
20	Astrocytes inhibit nitric oxide-dependent $Ca^{2+}$ dynamics in activated microglia: Involvement of ATP released via pannexin 1 channels. <i>Glia</i> , 2013, 61, 2023-2037.	2.5	65
21	Metabolic inhibition increases activity of connexin-32 hemichannels permeable to $Ca^{2+}$ in transfected HeLa cells. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 297, C665-C678.	2.1	63
22	Understanding Risk Factors for Alzheimer's Disease: Interplay of Neuroinflammation, Connexin-based Communication and Oxidative Stress. <i>Archives of Medical Research</i> , 2012, 43, 632-644.	1.5	62
23	Cannabinoids prevent the opposite regulation of astroglial connexin43 hemichannels and gap junction channels induced by pro-inflammatory treatments. <i>Journal of Neurochemistry</i> , 2009, 111, 1383-1397.	2.1	54
24	Cation permeation through connexin 43 hemichannels is cooperative, competitive and saturable with parameters depending on the permeant species. <i>Biochemical and Biophysical Research Communications</i> , 2011, 409, 603-609.	1.0	53
25	Prenatal exposure to inflammatory conditions increases Cx43 and Panx1 unopposed channel opening and activation of astrocytes in the offspring effect on neuronal survival. <i>Glia</i> , 2015, 63, 2058-2072.	2.5	53
26	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
27	Cannabinoids prevent the amyloid $\beta$ -induced activation of astroglial hemichannels: A neuroprotective mechanism. <i>Glia</i> , 2017, 65, 122-137.	2.5	50
28	Connexins and Pannexins: New Insights into Microglial Functions and Dysfunctions. <i>Frontiers in Molecular Neuroscience</i> , 2016, 9, 86.	1.4	46
29	Connexin 43 Hemichannel Activity Promoted by Pro-Inflammatory Cytokines and High Glucose Alters Endothelial Cell Function. <i>Frontiers in Immunology</i> , 2018, 9, 1899.	2.2	45
30	Synaptic Functions of Hemichannels and Pannexons: A Double-Edged Sword. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 435.	1.4	42
31	Chronic stress decreases the expression of sympathetic markers in the pineal gland and increases plasma melatonin concentration in rats. <i>Journal of Neurochemistry</i> , 2006, 97, 1279-1287.	2.1	40
32	Excess cholesterol induces mouse egg activation and may cause female infertility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E4972-80.	3.3	40
33	Hemichannels in the Neurovascular Unit and White Matter Under Normal and Inflamed Conditions. <i>CNS and Neurological Disorders - Drug Targets</i> , 2011, 10, 404-414.	0.8	39
34	Connexin 43 hemichannels and pannexin-1 channels contribute to the $\beta$ -synuclein-induced dysfunction and death of astrocytes. <i>Glia</i> , 2019, 67, 1598-1619.	2.5	39
35	Role of Connexins and Pannexins in Ischemic Stroke. <i>Current Medicinal Chemistry</i> , 2014, 21, 2165-2182.	1.2	36
36	Regulation of Intercellular Calcium Signaling Through Calcium Interactions with Connexin-Based Channels. <i>Advances in Experimental Medicine and Biology</i> , 2012, 740, 777-794.	0.8	35

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37	Role of Astroglial Hemichannels and Pannexons in Memory and Neurodegenerative Diseases. <i>Frontiers in Integrative Neuroscience</i> , 2016, 10, 26.	1.0	34
38	Heavy Alcohol Exposure Activates Astroglial Hemichannels and Pannexons in the Hippocampus of Adolescent Rats: Effects on Neuroinflammation and Astrocyte Arborization. <i>Frontiers in Cellular Neuroscience</i> , 2018, 12, 472.	1.8	34
39	Prenatal nicotine exposure enhances Cx43 and Panx1 unopposed channel activity in brain cells of adult offspring mice fed a high-fat/cholesterol diet. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 403.	1.8	33
40	The Opening of Connexin 43 Hemichannels Alters Hippocampal Astrocyte Function and Neuronal Survival in Prenatally LPS-Exposed Adult Offspring. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 460.	1.8	33
41	Disruption in Connexin-Based Communication Is Associated with Intracellular Ca <sup>2+</sup> Signal Alterations in Astrocytes from Niemann-Pick Type C Mice. <i>PLoS ONE</i> , 2013, 8, e71361.	1.1	33
42	Connexin-Based Channels in Astrocytes: How to Study Their Properties. <i>Methods in Molecular Biology</i> , 2012, 814, 283-303.	0.4	32
43	Adolescent Binge Alcohol Exposure Affects the Brain Function Through Mitochondrial Impairment. <i>Molecular Neurobiology</i> , 2017, 55, 4473-4491.	1.9	31
44	Dysfunctions of the Diffusional Membrane Pathways Mediated Hemichannels in Inherited and Acquired Human Diseases. <i>Current Vascular Pharmacology</i> , 2009, 7, 486-505.	0.8	30
45	Modulation of interferon- $\beta$ -induced glial cell activation by transforming growth factor $\beta$ 1: A role for STAT1 and MAPK pathways. <i>Journal of Neurochemistry</i> , 2012, 123, 113-123.	2.1	30
46	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
47	Physiological Functions of Glial Cell Hemichannels. <i>Advances in Experimental Medicine and Biology</i> , 2016, 949, 93-108.	0.8	20
48	HIV gp120 Protein Increases the Function of Connexin 43 Hemichannels and Pannexin-1 Channels in Astrocytes: Repercussions on Astroglial Function. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2503.	1.8	20
49	New Implications for the Melanocortin System in Alcohol Drinking Behavior in Adolescents: The Glial Dysfunction Hypothesis. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 90.	1.8	17
50	Interferon- $\beta$ 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
51	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
52	The Neuroglial Dialog Between Cannabinoids and Hemichannels. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 79.	1.4	14
53	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
54	Permeation of Molecules through Astroglial Connexin 43 Hemichannels Is Modulated by Cytokines with Parameters Depending on the Permeant Species. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3970.	1.8	12

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55	Astroglial Hemichannels and Pannexons: The Hidden Link between Maternal Inflammation and Neurological Disorders. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9503.	1.8	12
56	Activation of Melanocortin-4 Receptor by a Synthetic Agonist Inhibits Ethanolinduced Neuroinflammation in Rats. <i>Current Pharmaceutical Design</i> , 2020, 25, 4799-4805.	0.9	10
57	Chlorpromazine reduces the intercellular communication via gap junctions in mammalian cells. <i>Toxicology and Applied Pharmacology</i> , 2006, 213, 187-197.	1.3	8
58	Neurodegeneration in Multiple Sclerosis: The Role of Nrf2-Dependent Pathways. <i>Antioxidants</i> , 2022, 11, 1146.	2.2	8
59	Editorial: Single membrane channels formed by connexins or pannexins: focus on the nervous system. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 402.	1.8	0
60	Synaptic Functions of Astroglial Hemichannels. , 0, , .		0