Eliana Scemes

List of Publications by Year
in descending order

97 papers	7,373 citations	66234 42 h-index	56606 83 g-index
105 all docs	105 docs citations	105 times ranked	5823 citing authors

#	ARTICLE	IF	CITATIONS
1	Astrocyte calcium waves: What they are and what they do. Glia, 2006, 54, 716-725.	2.5	568
2	P2X7 Receptors Mediate ATP Release and Amplification of Astrocytic Intercellular Ca2+ Signaling. Journal of Neuroscience, 2006, 26, 1378-1385.	1.7	479
3	The Pannexin 1 Channel Activates the Inflammasome in Neurons and Astrocytes. Journal of Biological Chemistry, 2009, 284, 18143-18151.	1.6	476
4	Pannexin1 is part of the pore forming unit of the P2X7receptor death complex. FEBS Letters, 2007, 581, 483-488.	1.3	402
5	Pannexin 1: The Molecular Substrate of Astrocyte â€œHemichannelsâ€. Journal of Neuroscience, 2009, 29, 7092-7097.	1.7	335
6	Pannexin channels are not gap junction hemichannels. Channels, 2011, 5, 193-197.	1.5	305
7	P2X₇receptor-Pannexin1 complex: pharmacology and signaling. American Journal of Physiology - Cell Physiology, 2008, 295, C752-C760.	2.1	303
8	Connexin and pannexin mediated cellâ€“cell communication. Neuron Glia Biology, 2007, 3, 199-208.	2.0	212
9	Connexin43 null mice reveal that astrocytes express multiple connexins. Brain Research Reviews, 2000, 32, 45-56.	9.1	191
10	Intercellular Communication in Spinal Cord Astrocytes: Fine Tuning between Gap Junctions and P2 Nucleotide Receptors in Calcium Wave Propagation. Journal of Neuroscience, 2000, 20, 1435-1445.	1.7	186
11	The cytokine IL-1? transiently enhances P2X7 receptor expression and function in human astrocytes. Glia, 2005, 49, 245-258.	2.5	186
12	IL-1beta differentially regulates calcium wave propagation between primary human fetal astrocytes via pathways involving P2 receptors and gap junction channels. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 11613-11618.	3.3	182
13	Connexins, pannexins, innexins: novel roles of â€œhemi-channelsâ€. Pflugers Archiv European Journal of Physiology, 2009, 457, 1207-1226.	1.3	166
14	Targeting Pannexin1 Improves Seizure Outcome. PLoS ONE, 2011, 6, e25178.	1.1	163
15	Mechanisms of glutamate release from astrocytes: gap junction â€œhemichannelsâ€, purinergic receptors and exocytotic release. Neurochemistry International, 2004, 45, 259-264.	1.9	148
16	ATP signaling is deficient in cultured pannexin1â€null mouse astrocytes. Glia, 2012, 60, 1106-1116.	2.5	147
17	Connexin 43-Mediated Astroglial Metabolic Networks Contribute to the Regulation of the Sleep-Wake Cycle. Neuron, 2017, 95, 1365-1380.e5.	3.8	146
18	Spatial and Temporal Control of Cofilin Activity Is Required for Directional Sensing during Chemotaxis. Current Biology, 2006, 16, 2193-2205.	1.8	145

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19	Connexin43, the major gap junction protein of astrocytes, is down-regulated in inflamed white matter in an animal model of multiple sclerosis. Journal of Neuroscience Research, 2005, 80, 798-808.	1.3	127
20	Reduced Expression of P2Y₁Receptors in Connexin43-Null Mice Alters Calcium Signaling and Migration of Neural Progenitor Cells. Journal of Neuroscience, 2003, 23, 11444-11452.	1.7	121
21	Calcium waves between astrocytes from Cx43 knockout mice. , 1998, 24, 65-73.		115
22	Calmodulin Kinase Pathway Mediates the K⁺-Induced Increase in Gap Junctional Communication between Mouse Spinal Cord Astrocytes. Journal of Neuroscience, 2001, 21, 6635-6643.	1.7	97
23	Array analysis of gene expression in connexin-43 null astrocytes. Physiological Genomics, 2003, 15, 177-190.	1.0	97
24	The speed of swelling kinetics modulates cell volume regulation and calcium signaling in astrocytes: A different point of view on the role of aquaporins. Glia, 2016, 64, 139-154.	2.5	91
25	Human and mouse microglia express connexin36, and functional gap junctions are formed between rodent microglia and neurons. Journal of Neuroscience Research, 2005, 82, 306-315.	1.3	89
26	Gap junction channels coordinate the propagation of intercellular Ca2+ signals generated by P2Y receptor activation. Glia, 2004, 48, 217-229.	2.5	78
27	Components of Astrocytic Intercellular Calcium Signaling. Molecular Neurobiology, 2000, 22, 167-180.	1.9	76
28	Gene expression alterations in connexin null mice extend beyond the gap junction. Neurochemistry International, 2004, 45, 243-250.	1.9	74
29	Extracellular K+ and Astrocyte Signaling via Connexin and Pannexin Channels. Neurochemical Research, 2012, 37, 2310-2316.	1.6	74
30	Evidence for secretory pathway localization of a voltage-dependent anion channel isoform. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 3201-6.	3.3	72
31	Exocytosis of ATP from astrocyte progenitors modulates spontaneous Ca2+oscillations and cell migration. Glia, 2007, 55, 652-662.	2.5	66
32	Acute downregulation of Cx43 alters P2Y receptor expression levels in mouse spinal cord astrocytes. Glia, 2003, 42, 160-171.	2.5	65
33	A Stochastic Two-Dimensional Model of Intercellular Ca2+ Wave Spread in Glia. Biophysical Journal, 2006, 90, 24-41.	0.2	65
34	Promises and pitfalls of a Pannexin1 transgenic mouse line. Frontiers in Pharmacology, 2013, 4, 61.	1.6	64
35	Mefloquine Blockade of Pannexin1 Currents: Resolution of a Conflict. Cell Communication and Adhesion, 2010, 16, 131-137.	1.0	62
36	Contribution of Pannexin1 to Experimental Autoimmune Encephalomyelitis. PLoS ONE, 2013, 8, e66657.	1.1	59

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37	Two non-vesicular ATP release pathways in the mouse erythrocyte membrane. FEBS Letters, 2011, 585, 3430-3435.	1.3	55
38	Blockade of P2X7 Receptors or Pannexin-1 Channels Similarly Attenuates Postischemic Damage. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 843-850.	2.4	55
39	The TLR3 ligand polyI:C downregulates connexin 43 expression and function in astrocytes by a mechanism involving the NF-ÎºB and PI3 kinase pathways. Glia, 2006, 54, 775-785.	2.5	51
40	Modulation of intercellular communication in macrophages: possible interactions between GAP junctions and P2 receptors. Journal of Cell Science, 2004, 117, 4717-4726.	1.2	49
41	Modulation of astrocyte P2Y₁ receptors by the carboxyl terminal domain of the gap junction protein Cx43. Glia, 2008, 56, 145-153.	2.5	48
42	Similar Transcriptomic Alterations in Cx43 Knockdown and Knockout Astrocytes. Cell Communication and Adhesion, 2008, 15, 195-206.	1.0	48
43	ATP and potassium ions: a deadly combination for astrocytes. Scientific Reports, 2014, 4, 4576.	1.6	44
44	Glial pannexin1 contributes to tactile hypersensitivity in a mouse model of orofacial pain. Scientific Reports, 2016, 6, 38266.	1.6	44
45	The Carboxyl-terminal Domain of Connexin43 Is a Negative Modulator of Neuronal Differentiation. Journal of Biological Chemistry, 2010, 285, 11836-11845.	1.6	43
46	Pannexin 1 involvement in bladder dysfunction in a multiple sclerosis model. Scientific Reports, 2013, 3, 2152.	1.6	43
47	Pannexin1 Channels Are Required for Chemokine-Mediated Migration of CD4+ T Lymphocytes: Role in Inflammation and Experimental Autoimmune Encephalomyelitis. Journal of Immunology, 2016, 196, 4338-4347.	0.4	42
48	Gap Junctions in Glia. Advances in Experimental Medicine and Biology, 1999, , 339-359.	0.8	39
49	Point Mutation in the Mouse P2X₇ Receptor Affects Intercellular Calcium Waves in Astrocytes. ASN Neuro, 2009, 1, AN20090001.	1.5	37
50	Nature of plasmalemmal functional â€œhemichannelsâ€• Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1880-1883.	1.4	36
51	A Comparative Antibody Analysis of Pannexin1 Expression in Four Rat Brain Regions Reveals Varying Subcellular Localizations. Frontiers in Pharmacology, 2013, 4, 6.	1.6	35
52	Increased intercellular communication in mouse astrocytes exposed to hyposmotic shocks. , 1998, 24, 74-84.		31
53	Astrocyte and Neuronal Pannexin1 Contribute Distinctly to Seizures. ASN Neuro, 2019, 11, 175909141983350.	1.5	29
54	Pannexin-1 channel opening is critical for COVID-19 pathogenesis. IScience, 2021, 24, 103478.	1.9	28

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55	Gap Junction and Purinergic P2 Receptor Proteins as a Functional Unit: Insights from Transcriptomics. Journal of Membrane Biology, 2007, 217, 83-91.	1.0	27
56	Exciting and not so exciting roles of pannexins. Neuroscience Letters, 2019, 695, 25-31.	1.0	23
57	Cx43 carboxyl terminal domain determines AQP4 and Cx30 endfoot organization and blood brain barrier permeability. Scientific Reports, 2021, 11, 24334.	1.6	23
58	The connexin43-dependent transcriptome during brain development: Importance of genetic background. Brain Research, 2012, 1487, 131-139.	1.1	22
59	Cytokine Regulation of Gap Junction Connectivity. American Journal of Pathology, 2001, 158, 1565-1569.	1.9	18
60	Interleukin-1Î² affects calcium signaling and in vitro cell migration of astrocyte progenitors. Journal of Neuroimmunology, 2008, 196, 116-123.	1.1	18
61	Pannexin1 links lymphatic function to lipid metabolism and atherosclerosis. Scientific Reports, 2017, 7, 13706.	1.6	18
62	Alteration of transcriptomic networks in adoptive-transfer experimental autoimmune encephalomyelitis. Frontiers in Integrative Neuroscience, 2007, 1, 10.	1.0	17
63	Volume changes in cardiac ventricles from Aplysia brasiliana upon exposure to hyposmotic shock. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2000, 127, 99-111.	0.8	14
64	Information processing and transmission in glia: Calcium signaling and transmitter release. Glia, 2006, 54, 639-641.	2.5	14
65	Lack of â€œHemichannelâ€•Activity in Insulin-Producing Cells. Cell Communication and Adhesion, 2008, 15, 143-154.	1.0	14
66	Inhibitors of the 5-lipoxygenase pathway activate pannexin1 channels in macrophages via the thromboxane receptor. American Journal of Physiology - Cell Physiology, 2014, 307, C571-C579.	2.1	14
67	Human immunodeficiency virusâ€1/simian immunodeficiency virus infection induces opening of pannexinâ€1 channels resulting in neuronal synaptic compromise: A novel therapeutic opportunity to prevent NeuroHIV. Journal of Neurochemistry, 2021, 158, 500-521.	2.1	13
68	Selective inhibition of Panx1 channels decreases hemostasis and thrombosis in vivo. Thrombosis Research, 2019, 183, 56-62.	0.8	12
69	Electrophysiology of cardiac myocytes of Aplysia brasiliana. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 133, 161-168.	0.8	11
70	Neuroblast Migration and P2Y₁ Receptor Mediated Calcium Signalling Depend on 9-O-Acetyl GD3 Ganglioside. ASN Neuro, 2012, 4, AN20120035.	1.5	11
71	Ionic requirements for PCH-induced pigment aggregation in the freshwater shrimp, Macrobrachium potiuna, erythrophores. Comparative Biochemistry and Physiology A, Comparative Physiology, 1996, 113, 351-359.	0.7	10
72	The astrocytic syncytium. Advances in Molecular and Cell Biology, 2003, , 165-179.	0.1	10

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73	Regulatory volume decrease in neurons ofAplysia brasiliana. The Journal of Experimental Zoology, 1995, 272, 329-337.	1.4	8
74	Chapter 7: Intercellular Calcium Wave Communication via Gap Junction Dependent and Independent Mechanisms. Current Topics in Membranes, 1999, , 145-173.	0.5	8
75	Lack of osmoregulation in Aplysia brasiliana: correlation with response of neuron R15 to osphradial stimulation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1991, 260, R777-R784.	0.9	7
76	Behavioral modifications of Liriope tetraphylla (Chamisso and Eysenhardt) (Cnidaria, Hydrozoa,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Ecology, 1996, 206, 223-236.	0.7	6
77	Associations of cognitive function and pain in older adults. International Journal of Geriatric Psychiatry, 2017, 32, 118-120.	1.3	6
78	Rethinking the Role of Cholinergic Neurotransmission in the Cnidaria. , 1989, , 157-166.		6
79	Cholinergic mechanism in Liriope tetraphylla (Cnidaria, Hydrozoa). Comparative Biochemistry and Physiology Part C: Comparative Pharmacology, 1986, 83, 171-178.	0.2	5
80	The Ultrastructure of the Radial Neuromuscular System of the Jellyfish Liriope tetraphylla (Hydrozoa,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	5
81	Cellâ€“Cell Communication: An Overview Emphasizing Gap Junctions. , 2004, , 431-458.		5
82	Connexin Expression (Gap Junctions and Hemichannels) in Astrocytes. , 2009, , 107-150.		5
83	Generation and Characterization of Immortalized Mouse Cortical Astrocytes From Wildtype and Connexin43 Knockout Mice. Frontiers in Cellular Neuroscience, 2021, 15, 647109.	1.8	5
84	The Contribution of Astrocyte and Neuronal Panx1 to Seizures Is Model and Brain Region Dependent. ASN Neuro, 2021, 13, 175909142110072.	1.5	4
85	Adrenergic Receptors on Astrocytes Modulate Gap Junctions. , 2017, , 127-144.		3
86	Chapter 23: â€œNegativeâ€• Physiology: What Connexin-Deficient Mice Reveal about the Functional Roles of Individual Gap Junction Proteins. Current Topics in Membranes, 1999, 49, 509-533.	0.5	1
87	Connexin- and pannexin-mediated cellâ€“cell communication â€” CORRIGENDUM. Neuron Glia Biology, 2008, 4, 329-329.	2.0	1
88	Resident Neural Stem Cells. , 2013, , 69-87.		1
89	Gap Junctions in the Nervous System. , 2014, , 402-408.		1
90	Absence of cholinesterase activity in body wall homogenates from the sea anemone Bunodosoma caissarum CorrÃªa. Comparative Biochemistry and Physiology Part C: Comparative Pharmacology, 1982, 73, 415-418.	0.2	0

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91	Pharmacology of the radial neuromuscular system of Liriope tetraphylla (Hydrozoa, Trachymedusae). Comparative Biochemistry and Physiology Part C: Comparative Pharmacology, 1988, 90, 385-389.	0.2	0
92	Live Imaging of Neural Cell Functions. Springer Protocols, 2009, , 353-373.	0.1	0
93	36 A PUTATIVE MECHANISM FOR PANNEXIN 1 INVOLVEMENT IN BLADDER DYSFUNCTION IN AN ANIMAL MODEL OF MULTIPLE SCLEROSIS. Journal of Urology, 2013, 189, .	0.2	0
94	Gap Junctions. , 2003, , 429-432.		0
95	Biomarkers of Astrocyte Microdomains. Frontiers in Neuroscience, 2011, , 25-62.	0.0	0
96	Gap Junction Proteins (Connexins, Pannexins, and Innexins). , 2013, , 881-886.		0
97	Gap Junction Proteins (Connexins, Pannexins, and Innexins). , 2019, , 1-7.		0