Eliana Scemes

List of Publications by Year
in descending order

97	7,373	42	83
papers	citations	h-index	g-index
		66234	56606

105	105	105	5823
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Generation and Characterization of Immortalized Mouse Cortical Astrocytes From Wildtype and Connexin43 Knockout Mice. Frontiers in Cellular Neuroscience, 2021, 15, 647109.	1.8	5
2	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
3	The Contribution of Astrocyte and Neuronal Panx1 to Seizures Is Model and Brain Region Dependent. ASN Neuro, 2021, 13, 175909142110072.	1.5	4
4	Pannexin-1 channel opening is critical for COVID-19 pathogenesis. IScience, 2021, 24, 103478.	1.9	28
5	Cx43 carboxyl terminal domain determines AQP4 and Cx30 endfoot organization and blood brain barrier permeability. Scientific Reports, 2021, 11, 24334.	1.6	23
6	Astrocyte and Neuronal Pannexin1 Contribute Distinctly to Seizures. ASN Neuro, 2019, 11, 175909141983350.	1.5	29
7	Selective inhibition of Panx1 channels decreases hemostasis and thrombosis in vivo. Thrombosis Research, 2019, 183, 56-62.	0.8	12
8	Exciting and not so exciting roles of pannexins. Neuroscience Letters, 2019, 695, 25-31.	1.0	23
9	Gap Junction Proteins (Connexins, Pannexins, and Innexins). , 2019, , 1-7.		0
10	Associations of cognitive function and pain in older adults. International Journal of Geriatric Psychiatry, 2017, 32, 118-120.	1.3	6
11	Pannexin1 links lymphatic function to lipid metabolism and atherosclerosis. Scientific Reports, 2017, 7, 13706.	1.6	18
12	Connexin 43-Mediated Astroglial Metabolic Networks Contribute to the Regulation of the Sleep-Wake Cycle. Neuron, 2017, 95, 1365-1380.e5.	3.8	146
13	Adrenergic Receptors on Astrocytes Modulate Gap Junctions. , 2017, , 127-144.		3
14	Glial pannexin1 contributes to tactile hypersensitivity in a mouse model of orofacial pain. Scientific Reports, 2016, 6, 38266.	1.6	44
15	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
16	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
17	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
18	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

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19	ATP and potassium ions: a deadly combination for astrocytes. Scientific Reports, 2014, 4, 4576.	1.6	44
20	Gap Junctions in the Nervous System. , 2014, , 402-408.		1
21	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
22	Promises and pitfalls of a Pannexin1 transgenic mouse line. Frontiers in Pharmacology, 2013, 4, 61.	1.6	64
23	Pannexin 1 involvement in bladder dysfunction in a multiple sclerosis model. Scientific Reports, 2013, 3, 2152.	1.6	43
24	Resident Neural Stem Cells. , 2013, , 69-87.		1
25	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
26	Contribution of Pannexin1 to Experimental Autoimmune Encephalomyelitis. PLoS ONE, 2013, 8, e66657.	1.1	59
27	Gap Junction Proteins (Connexins, Pannexins, and Innexins). , 2013, , 881-886.		0
28	Neuroblast Migration and P2Y₁ Receptor Mediated Calcium Signalling Depend on 9-O-Acetyl GD3 Ganglioside. ASN Neuro, 2012, 4, AN20120035.	1.5	11
29	Nature of plasmalemmal functional â€œhemichannelsâ€. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1880-1883.	1.4	36
30	The connexin43-dependent transcriptome during brain development: Importance of genetic background. Brain Research, 2012, 1487, 131-139.	1.1	22
31	Extracellular K+ and Astrocyte Signaling via Connexin and Pannexin Channels. Neurochemical Research, 2012, 37, 2310-2316.	1.6	74
32	ATP signaling is deficient in cultured pannexin1â€null mouse astrocytes. Glia, 2012, 60, 1106-1116.	2.5	147
33	Targeting Pannexin1 Improves Seizure Outcome. PLoS ONE, 2011, 6, e25178.	1.1	163
34	Two non-vesicular ATP release pathways in the mouse erythrocyte membrane. FEBS Letters, 2011, 585, 3430-3435.	1.3	55
35	Pannexin channels are not gap junction hemichannels. Channels, 2011, 5, 193-197.	1.5	305
36	Biomarkers of Astrocyte Microdomains. Frontiers in Neuroscience, 2011, , 25-62.	0.0	0

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37	The Carboxyl-terminal Domain of Connexin43 Is a Negative Modulator of Neuronal Differentiation. Journal of Biological Chemistry, 2010, 285, 11836-11845.	1.6	43
38	Mefloquine Blockade of Pannexin1 Currents: Resolution of a Conflict. Cell Communication and Adhesion, 2010, 16, 131-137.	1.0	62
39	The Pannexin 1 Channel Activates the Inflammasome in Neurons and Astrocytes. Journal of Biological Chemistry, 2009, 284, 18143-18151.	1.6	476
40	Pannexin 1: The Molecular Substrate of Astrocyte â€œHemichannelsâ€. Journal of Neuroscience, 2009, 29, 7092-7097.	1.7	335
41	Connexins, pannexins, innexins: novel roles of â€œhemi-channelsâ€. Pflugers Archiv European Journal of Physiology, 2009, 457, 1207-1226.	1.3	166
42	Live Imaging of Neural Cell Functions. Springer Protocols, 2009, , 353-373.	0.1	0
43	Connexin Expression (Gap Junctions and Hemichannels) in Astrocytes. , 2009, , 107-150.		5
44	Point Mutation in the Mouse P2X₇ Receptor Affects Intercellular Calcium Waves in Astrocytes. ASN Neuro, 2009, 1, AN20090001.	1.5	37
45	Modulation of astrocyte P2Y₁ receptors by the carboxyl terminal domain of the gap junction protein Cx43. Glia, 2008, 56, 145-153.	2.5	48
46	Interleukin-1Î² affects calcium signaling and in vitro cell migration of astrocyte progenitors. Journal of Neuroimmunology, 2008, 196, 116-123.	1.1	18
47	P2X₇receptor-Pannexin1 complex: pharmacology and signaling. American Journal of Physiology - Cell Physiology, 2008, 295, C752-C760.	2.1	303
48	Lack of â€œHemichannelâ€•Activity in Insulin-Producing Cells. Cell Communication and Adhesion, 2008, 15, 143-154.	1.0	14
49	Similar Transcriptomic Alterations in Cx43 Knockdown and Knockout Astrocytes. Cell Communication and Adhesion, 2008, 15, 195-206.	1.0	48
50	Connexin- and pannexin-mediated cellâ€“cell communication â€” CORRIGENDUM. Neuron Glia Biology, 2008, 4, 329-329.	2.0	1
51	Pannexin1 is part of the pore forming unit of the P2X7receptor death complex. FEBS Letters, 2007, 581, 483-488.	1.3	402
52	Alteration of transcriptomic networks in adoptive-transfer experimental autoimmune encephalomyelitis. Frontiers in Integrative Neuroscience, 2007, 1, 10.	1.0	17
53	Exocytosis of ATP from astrocyte progenitors modulates spontaneous Ca2+oscillations and cell migration. Glia, 2007, 55, 652-662.	2.5	66
54	Connexin and pannexin mediated cellâ€“cell communication. Neuron Glia Biology, 2007, 3, 199-208.	2.0	212

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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	A Stochastic Two-Dimensional Model of Intercellular Ca2+ Wave Spread in Glia. Biophysical Journal, 2006, 90, 24-41.	0.2	65
57	Spatial and Temporal Control of Cofilin Activity Is Required for Directional Sensing during Chemotaxis. Current Biology, 2006, 16, 2193-2205.	1.8	145
58	Astrocyte calcium waves: What they are and what they do. Glia, 2006, 54, 716-725.	2.5	568
59	The TLR3 ligand polyI:C downregulates connexin 43 expression and function in astrocytes by a mechanism involving the NF-Î°B and PI3 kinase pathways. Glia, 2006, 54, 775-785.	2.5	51
60	Information processing and transmission in glia: Calcium signaling and transmitter release. Glia, 2006, 54, 639-641.	2.5	14
61	P2X7 Receptors Mediate ATP Release and Amplification of Astrocytic Intercellular Ca2+ Signaling. Journal of Neuroscience, 2006, 26, 1378-1385.	1.7	479
62	The cytokine IL-1? transiently enhances P2X7 receptor expression and function in human astrocytes. Glia, 2005, 49, 245-258.	2.5	186
63	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
64	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
65	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
66	Gap junction channels coordinate the propagation of intercellular Ca2+ signals generated by P2Y receptor activation. Glia, 2004, 48, 217-229.	2.5	78
67	Gene expression alterations in connexin null mice extend beyond the gap junction. Neurochemistry International, 2004, 45, 243-250.	1.9	74
68	Mechanisms of glutamate release from astrocytes: gap junction â€œhemichannelsâ€, purinergic receptors and exocytotic release. Neurochemistry International, 2004, 45, 259-264.	1.9	148
69	Cellâ€"Cell Communication: An Overview Emphasizing Gap Junctions. , 2004, , 431-458.		5
70	Acute downregulation of Cx43 alters P2Y receptor expression levels in mouse spinal cord astrocytes. Glia, 2003, 42, 160-171.	2.5	65
71	Array analysis of gene expression in connexin-43 null astrocytes. Physiological Genomics, 2003, 15, 177-190.	1.0	97
72	The astrocytic syncytium. Advances in Molecular and Cell Biology, 2003, , 165-179.	0.1	10

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73	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
74	Gap Junctions. , 2003, , 429-432.		0
75	Electrophysiology of cardiac myocytes of Aplysia brasiliana. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2002, 133, 161-168.	0.8	11
76	Cytokine Regulation of Gap Junction Connectivity. American Journal of Pathology, 2001, 158, 1565-1569.	1.9	18
77	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
78	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
79	Components of Astrocytic Intercellular Calcium Signaling. Molecular Neurobiology, 2000, 22, 167-180.	1.9	76
80	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
81	Connexin43 null mice reveal that astrocytes express multiple connexins. Brain Research Reviews, 2000, 32, 45-56.	9.1	191
82	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
83	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
84	Chapter 7: Intercellular Calcium Wave Communication via Gap Junction Dependent and Independent Mechanisms. Current Topics in Membranes, 1999, , 145-173.	0.5	8
85	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
86	Gap Junctions in Glia. Advances in Experimental Medicine and Biology, 1999, , 339-359.	0.8	39
87	Calcium waves between astrocytes from Cx43 knockout mice. , 1998, 24, 65-73.		115
88	Increased intercellular communication in mouse astrocytes exposed to hyposmotic shocks. , 1998, 24, 74-84.		31
89	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
90	Behavioral modifications of Liriope tetraphylla (Chamisso and Eysenhardt) (Cnidaria, Hydrozoa,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 Ecology, 1996, 206, 223-236.	0.7	6

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91	Regulatory volume decrease in neurons ofAplysia brasiliana. The Journal of Experimental Zoology, 1995, 272, 329-337.	1.4	8
92	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
93	The Ultrastructure of the Radial Neuromuscular System of the Jellyfish Liriope tetraphylla (Hydrozoa,) Tj ETQq1 1 0.784314 rgBT /Overlo	0.7	5
94	Rethinking the Role of Cholinergic Neurotransmission in the Cnidaria. , 1989, , 157-166.		6
95	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
96	Cholinergic mechanism in Liriope tetraphylla (Cnidaria, Hydrozoa). Comparative Biochemistry and Physiology Part C: Comparative Pharmacology, 1986, 83, 171-178.	0.2	5
97	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