

# Giuseppe Pignataro

## List of Publications by Citations

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101  
papers

3,617  
citations

32  
h-index

58  
g-index

117  
ext. papers

3,973  
ext. citations

6.4  
avg. IF

5.06  
L-index

#	Paper	IF	Citations
101	Pharmacology of brain Na <sup>+</sup> /Ca <sup>2+</sup> exchanger: from molecular biology to therapeutic perspectives. <i>Pharmacological Reviews</i> , <b>2004</b> , 56, 633-54	22.5	258
100	Apoptosis induced in neuronal cells by oxidative stress: role played by caspases and intracellular calcium ions. <i>Toxicology Letters</i> , <b>2003</b> , 139, 125-33	4.4	214
99	Prolonged activation of ASIC1a and the time window for neuroprotection in cerebral ischaemia. <i>Brain</i> , <b>2007</b> , 130, 151-8	11.2	208
98	Acid-sensing ion channels (ASICs) as pharmacological targets for neurodegenerative diseases. <i>Current Opinion in Pharmacology</i> , <b>2008</b> , 8, 25-32	5.1	188
97	In vivo and in vitro characterization of a novel neuroprotective strategy for stroke: ischemic postconditioning. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2008</b> , 28, 232-41	7.3	178
96	Rhythm-specific modulation of the sensorimotor network in drug-naive patients with Parkinson's disease by levodopa. <i>Brain</i> , <b>2013</b> , 136, 710-25	11.2	150
95	Ischemic preconditioning regulates expression of microRNAs and a predicted target, MeCP2, in mouse cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2010</b> , 30, 744-56	7.3	140
94	Two sodium/calcium exchanger gene products, NCX1 and NCX3, play a major role in the development of permanent focal cerebral ischemia. <i>Stroke</i> , <b>2004</b> , 35, 2566-70	6.7	139
93	Targeted disruption of Na <sup>+</sup> /Ca <sup>2+</sup> exchanger 3 (NCX3) gene leads to a worsening of ischemic brain damage. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 1179-84	6.6	109
92	Transgenic overexpression of adenosine kinase aggravates cell death in ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2007</b> , 27, 1-5	7.3	89
91	Evidence for a protective role played by the Na <sup>+</sup> /Ca <sup>2+</sup> exchanger in cerebral ischemia induced by middle cerebral artery occlusion in male rats. <i>Neuropharmacology</i> , <b>2004</b> , 46, 439-48	5.5	88
90	Post-ischemic brain damage: effect of ischemic preconditioning and postconditioning and identification of potential candidates for stroke therapy. <i>FEBS Journal</i> , <b>2009</b> , 276, 46-57	5.7	76
89	Permanent focal brain ischemia induces isoform-dependent changes in the pattern of Na <sup>+</sup> /Ca <sup>2+</sup> exchanger gene expression in the ischemic core, periinfarct area, and intact brain regions. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2006</b> , 26, 502-17	7.3	75
88	Downregulation of hippocampal adenosine kinase after focal ischemia as potential endogenous neuroprotective mechanism. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2008</b> , 28, 17-23	7.3	73
87	Targeted acetylation of NF-kappaB/RelA and histones by epigenetic drugs reduces post-ischemic brain injury in mice with an extended therapeutic window. <i>Neurobiology of Disease</i> , <b>2013</b> , 49, 177-89	7.5	71
86	Sp3/REST/HDAC1/HDAC2 Complex Represses and Sp1/HIF-1/p300 Complex Activates ncx1 Gene Transcription, in Brain Ischemia and in Ischemic Brain Preconditioning, by Epigenetic Mechanism. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 7332-48	6.6	67
85	Neuroprotective, immunosuppressant and antineoplastic properties of mTOR inhibitors: current and emerging therapeutic options. <i>Current Opinion in Pharmacology</i> , <b>2011</b> , 11, 378-94	5.1	66

84	Ionic transporter activity in astrocytes, microglia, and oligodendrocytes during brain ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2013</b> , 33, 969-82	7.3	65
83	HIF-1alpha reveals a binding activity to the promoter of iNOS gene after permanent middle cerebral artery occlusion. <i>Journal of Neurochemistry</i> , <b>2004</b> , 90, 368-78	6	65
82	NCX1 is a novel target gene for hypoxia-inducible factor-1 in ischemic brain preconditioning. <i>Stroke</i> , <b>2011</b> , 42, 754-63	6.7	59
81	MicroRNA-103-1 selectively downregulates brain NCX1 and its inhibition by anti-miRNA ameliorates stroke damage and neurological deficits. <i>Molecular Therapy</i> , <b>2014</b> , 22, 1829-38	11.7	54
80	Alcohol increases spontaneous BOLD signal fluctuations in the visual network. <i>NeuroImage</i> , <b>2010</b> , 53, 534-43	7.9	51
79	NCX1 and NCX3: two new effectors of delayed preconditioning in brain ischemia. <i>Neurobiology of Disease</i> , <b>2012</b> , 45, 616-23	7.5	49
78	The NCX3 isoform of the Na <sup>+</sup> /Ca <sup>2+</sup> exchanger contributes to neuroprotection elicited by ischemic postconditioning. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2011</b> , 31, 362-70	7.3	48
77	nNOS and p-ERK involvement in the neuroprotection exerted by remote postconditioning in rats subjected to transient middle cerebral artery occlusion. <i>Neurobiology of Disease</i> , <b>2013</b> , 54, 105-14	7.5	41
76	Neuroprotection in ischemic mouse brain induced by stem cell-derived brain implants. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2007</b> , 27, 919-27	7.3	37
75	ncx1, ncx2, and ncx3 gene product expression and function in neuronal anoxia and brain ischemia. <i>Annals of the New York Academy of Sciences</i> , <b>2007</b> , 1099, 413-26	6.5	37
74	NCX1 is a new rest target gene: role in cerebral ischemia. <i>Neurobiology of Disease</i> , <b>2013</b> , 50, 76-85	7.5	36
73	Neurounina-1, a novel compound that increases Na <sup>+</sup> /Ca <sup>2+</sup> exchanger activity, effectively protects against stroke damage. <i>Molecular Pharmacology</i> , <b>2013</b> , 83, 142-56	4.3	34
72	Glial Na <sup>(+)</sup> -dependent ion transporters in pathophysiological conditions. <i>Glia</i> , <b>2016</b> , 64, 1677-97	9	34
71	Urokinase-type plasminogen activator receptor (uPAR) expression enhances invasion and metastasis in RAS mutated tumors. <i>Scientific Reports</i> , <b>2017</b> , 7, 9388	4.9	33
70	Divergent modulation of iron regulatory proteins and ferritin biosynthesis by hypoxia/reoxygenation in neurones and glial cells. <i>Journal of Neurochemistry</i> , <b>2005</b> , 95, 1321-31	6	33
69	A critical role for the potassium-dependent sodium-calcium exchanger NCKX2 in protection against focal ischemic brain damage. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 2053-63	6.6	32
68	NCX as a key player in the neuroprotection exerted by ischemic preconditioning and postconditioning. <i>Advances in Experimental Medicine and Biology</i> , <b>2013</b> , 961, 223-40	3.6	30
67	ASIC1a contributes to neuroprotection elicited by ischemic preconditioning and postconditioning. <i>International Journal of Physiology, Pathophysiology and Pharmacology</i> , <b>2011</b> , 3, 1-8	3.4	30

66	Ionic Homeostasis Maintenance in ALS: Focus on New Therapeutic Targets. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 510	5.1	29
65	ORAI1/STIM1 Interaction Intervenes in Stroke and in Neuroprotection Induced by Ischemic Preconditioning Through Store-Operated Calcium Entry. <i>Stroke</i> , <b>2019</b> , 50, 1240-1249	6.7	28
64	Imaging of brain TSPO expression in a mouse model of amyotrophic lateral sclerosis with (18)F-DPA-714 and micro-PET/CT. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2016</b> , 43, 1348-59	8.8	28
63	Neuronal NCX1 overexpression induces stroke resistance while knockout induces vulnerability via Akt. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2016</b> , 36, 1790-1803	7.3	26
62	Ischemic tolerance modulates TRAIL expression and its receptors and generates a neuroprotected phenotype. <i>Cell Death and Disease</i> , <b>2014</b> , 5, e1331	9.8	24
61	Glutamate-independent calcium toxicity: introduction. <i>Stroke</i> , <b>2007</b> , 38, 661-4	6.7	24
60	Neurobiology of coronaviruses: Potential relevance for COVID-19. <i>Neurobiology of Disease</i> , <b>2020</b> , 143, 105007	7.5	23
59	Ionic homeostasis in brain conditioning. <i>Frontiers in Neuroscience</i> , <b>2015</b> , 9, 277	5.1	23
58	Sumoylation of LYS590 of NCX3 f-Loop by SUMO1 Participates in Brain Neuroprotection Induced by Ischemic Preconditioning. <i>Stroke</i> , <b>2016</b> , 47, 1085-93	6.7	23
57	The 2-oxopyrrolidinacetamide piracetam reduces infarct brain volume induced by permanent middle cerebral artery occlusion in male rats. <i>Neuropharmacology</i> , <b>2002</b> , 43, 427-33	5.5	21
56	Neuroprotective Effect of VEGF-Mimetic Peptide QK in Experimental Brain Ischemia Induced in Rat by Middle Cerebral Artery Occlusion. <i>ACS Chemical Neuroscience</i> , <b>2015</b> , 6, 1517-25	5.7	20
55	Synergistic Association of Valproate and Resveratrol Reduces Brain Injury in Ischemic Stroke. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	20
54	Does Na <sup>+</sup> /Ca <sup>2+</sup> exchanger, NCX, represent a new druggable target in stroke intervention?. <i>Translational Stroke Research</i> , <b>2014</b> , 5, 145-55	7.8	20
53	Is coeliac disease a confounding factor in the diagnosis of NASH?. <i>Gut</i> , <b>2001</b> , 49, 596	19.2	20
52	NCX1 Exchanger Cooperates with Calretinin to Confer Preconditioning-Induced Tolerance Against Cerebral Ischemia in the Striatum. <i>Molecular Neurobiology</i> , <b>2016</b> , 53, 1365-1376	6.2	19
51	Preconditioning, induced by sub-toxic dose of the neurotoxin L-BMAA, delays ALS progression in mice and prevents Na/Ca exchanger 3 downregulation. <i>Cell Death and Disease</i> , <b>2018</b> , 9, 206	9.8	18
50	Protective Effects of Quercetin on Rat Pial Microvascular Changes during Transient Bilateral Common Carotid Artery Occlusion and Reperfusion. <i>Frontiers in Physiology</i> , <b>2012</b> , 3, 32	4.6	18
49	Antithrombin reduces ischemic volume, ameliorates neurologic deficits, and prolongs animal survival in both transient and permanent focal ischemia. <i>Stroke</i> , <b>2007</b> , 38, 3272-9	6.7	18

48	Genetically modified mice as a strategy to unravel the role played by the Na(+)/Ca (2+) exchanger in brain ischemia and in spatial learning and memory deficits. <i>Advances in Experimental Medicine and Biology</i> , <b>2013</b> , 961, 213-22	3.6	17
47	Rat Pial Microvascular Responses to Transient Bilateral Common Carotid Artery Occlusion and Reperfusion: Quercetin <sup>®</sup> Mechanism of Action. <i>Frontiers in Physiology</i> , <b>2012</b> , 3, 99	4.6	17
46	Neuroprotective coordination of cell mitophagy by the ATPase Inhibitory Factor 1. <i>Pharmacological Research</i> , <b>2016</b> , 103, 56-68	10.2	16
45	Na+/Ca <sup>2+</sup> exchanger in Na <sup>+</sup> efflux-Ca <sup>2+</sup> influx mode of operation exerts a neuroprotective role in cellular models of in vitro anoxia and in vivo cerebral ischemia. <i>Annals of the New York Academy of Sciences</i> , <b>2002</b> , 976, 408-12	6.5	16
44	Transcriptional regulation of ncx1 gene in the brain. <i>Advances in Experimental Medicine and Biology</i> , <b>2013</b> , 961, 137-45	3.6	14
43	Acute and long-term NCX activation reduces brain injury and restores behavioral functions in mice subjected to neonatal brain ischemia. <i>Neuropharmacology</i> , <b>2018</b> , 135, 180-191	5.5	13
42	Pharmacological characterization of the newly synthesized 5-amino-N-butyl-2-(4-ethoxyphenoxy)-benzamide hydrochloride (BED) as a potent NCX3 inhibitor that worsens anoxic injury in cortical neurons, organotypic hippocampal cultures, and ischemic brain. <i>ACS Chemical Neuroscience</i> , <b>2015</b> , 6, 1361-70	5.7	13
41	Genetic ablation of homeodomain-interacting protein kinase 2 selectively induces apoptosis of cerebellar Purkinje cells during adulthood and generates an ataxic-like phenotype. <i>Cell Death and Disease</i> , <b>2015</b> , 6, e2004	9.8	12
40	Anti-miR-223-5p Ameliorates Ischemic Damage and Improves Neurological Function by Preventing NCKX2 Downregulation after Ischemia in Rats. <i>Molecular Therapy - Nucleic Acids</i> , <b>2019</b> , 18, 1063-1071	10.7	12
39	miR-206 Reduces the Severity of Motor Neuron Degeneration in the Facial Nuclei of the Brainstem in a Mouse Model of SMA. <i>Molecular Therapy</i> , <b>2020</b> , 28, 1154-1166	11.7	11
38	Models and methods for conditioning the ischemic brain. <i>Journal of Neuroscience Methods</i> , <b>2018</b> , 310, 63-74	3	9
37	Defective neuropeptide processing and ischemic brain injury: a study on proprotein convertase 2 and its substrate neuropeptide in ischemic brains. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2009</b> , 29, 698-706	7.3	8
36	HDAC4 and HDAC5 form a complex with DREAM that epigenetically down-regulates NCX3 gene and its pharmacological inhibition reduces neuronal stroke damage. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2020</b> , 40, 2081-2097	7.3	8
35	Remote postconditioning ameliorates stroke damage by preventing let-7a and miR-143 up-regulation. <i>Theranostics</i> , <b>2020</b> , 10, 12174-12188	12.1	8
34	In vivo imaging of CNS microglial activation/macrophage infiltration with combined [F]DPA-714-PET and SPIO-MRI in a mouse model of relapsing remitting experimental autoimmune encephalomyelitis. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2021</b> , 48, 40-52	8.8	8
33	Involvement of the potassium-dependent sodium/calcium exchanger gene product NCKX2 in the brain insult induced by permanent focal cerebral ischemia. <i>Annals of the New York Academy of Sciences</i> , <b>2007</b> , 1099, 486-9	6.5	7
32	Sodium/calcium exchanger as main effector of endogenous neuroprotection elicited by ischemic tolerance. <i>Cell Calcium</i> , <b>2020</b> , 87, 102183	4	6
31	Unfair credit allocations. <i>Small Business Economics</i> , <b>2013</b> , 41, 241-251	5.3	6

30	Effects of bone marrow mesenchymal stem cells (BM-MSCs) on rat pial microvascular remodeling after transient middle cerebral artery occlusion. <i>Frontiers in Cellular Neuroscience</i> , <b>2015</b> , 9, 329	6.1	5
29	Multicentre translational Trial of Remote Ischaemic Conditioning in Acute Ischaemic Stroke (TRICS): protocol of multicentre, parallel group, randomised, preclinical trial in female and male rat and mouse from the Italian Stroke Organization (ISO) Basic Science network.. <i>BMJ Open Science</i> , <b>2020</b> , 4, e100063	4.6	5
28	New perspectives for selective NCX activators in neurodegenerative diseases. <i>Cell Calcium</i> , <b>2020</b> , 87, 102170	4	4
27	miR-16-5p, miR-103-3p, and miR-27b-3p as Early Peripheral Biomarkers of Fetal Growth Restriction. <i>Frontiers in Pediatrics</i> , <b>2021</b> , 9, 611112	3.4	4
26	A graph-based approach to inequality assessment. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2016</b> , 455, 65-78	3.3	4
25	Development, Validation of LC-MS/MS Method and Determination of Pharmacokinetic Parameters of the Stroke Neuroprotectant Neurounina-1 in Beagle Dog Plasma After Intravenous Administration. <i>Frontiers in Pharmacology</i> , <b>2019</b> , 10, 432	5.6	3
24	Emerging Role of microRNAs in Stroke Protection Elicited by Remote Postconditioning. <i>Frontiers in Neurology</i> , <b>2021</b> , 12, 748709	4.1	3
23	The Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger: A Target for Therapeutic Intervention in Cerebral Ischemia <b>2009</b> , 65-87		3
22	The effects of environmental quality misperception on investments and regulation. <i>International Journal of Production Economics</i> , <b>2020</b> , 225, 107579	9.3	3
21	The hypoxia sensitive metal transcription factor MTF-1 activates NCX1 brain promoter and participates in remote postconditioning neuroprotection in stroke. <i>Cell Death and Disease</i> , <b>2021</b> , 12, 423	9.8	3
20	Pool size and the sustainability of optimal risk-sharing agreements. <i>Theory and Decision</i> , <b>2017</b> , 82, 273-303	10.8	2
19	On the social (sub)optimality of divisionalization under product differentiation. <i>Journal of Economics/ Zeitschrift Fur Nationalokonomie</i> , <b>2019</b> , 128, 225-238	1	2
18	Conjunctival instillation of plasminogen eliminates ocular lesion in B6.129P2-Plg(tm1Jld) transgenic mice, a model of ligneous conjunctivitis. <i>Pharmacological Research</i> , <b>2013</b> , 74, 45-8	10.2	2
17	Sumoylation of sodium/calcium exchanger in brain ischemia and ischemic preconditioning. <i>Cell Calcium</i> , <b>2020</b> , 87, 102195	4	1
16	GATA3 (GATA-Binding Protein 3)/KMT2A (Lysine-Methyltransferase-2A) Complex by Increasing H3K4-3me (Trimethylated Lysine-4 of Histone-3) Upregulates NCX3 (Na-Ca Exchanger 3) Transcription and Contributes to Ischemic Preconditioning Neuroprotection. <i>Stroke</i> , <b>2021</b> , 52, 3680-3691	6.7	1
15	Clinical Trials with Drugs Targeting Ionic Channels, Antiporters, and Pumps in Ischemic Stroke <b>2009</b> , 225-249		1
14	Acid-Sensing Ion Channels (ASICs): New Targets in Stroke Treatment <b>2009</b> , 153-173		1
13	Why have Ionotropic and Metabotropic Glutamate Antagonists Failed in Stroke Therapy? <b>2009</b> , 13-25		1

12	Neurological risks and benefits of cytokine-based treatments in coronavirus disease 2019: from preclinical to clinical evidence. <i>British Journal of Pharmacology</i> , <b>2021</b> ,	8.6	1
11	Synthesis and Characterization of Novel Mono- and Bis-Guanyl Hydrazones as Potent and Selective ASIC1 Inhibitors Able to Reduce Brain Ischemic Insult. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 8333-8353	8.3	1
10	Prolonged NCX activation prevents SOD1 accumulation, reduces neuroinflammation, ameliorates motor behavior and prolongs survival in a ALS mouse model. <i>Neurobiology of Disease</i> , <b>2021</b> , 159, 105480	7.5	1
9	Ischemic Preconditioning Modulates the Peripheral Innate Immune System to Promote Anti-Inflammatory and Protective Responses in Mice Subjected to Focal Cerebral Ischemia.. <i>Frontiers in Immunology</i> , <b>2022</b> , 13, 825834	8.4	1
8	Hemorrhagic Stroke Induces a Time-Dependent Upregulation of miR-150-5p and miR-181b-5p in the Bloodstream. <i>Frontiers in Neurology</i> , <b>2021</b> , 12, 736474	4.1	0
7	IN BRAIN POST-ISCHEMIC PLASTICITY, Na <sup>+</sup> /Ca <sup>2+</sup> EXCHANGER 1 AND Ascl1 INTERVENE IN MICROGLIA-DEPENDENT CONVERSION OF ASTROCYTES INTO NEURONAL LINEAGE. <i>Cell Calcium</i> , <b>2022</b> , 105, 102608	4	0
6	Learning, proximity and voting: theory and empirical evidence from nuclear referenda. <i>Social Choice and Welfare</i> , <b>2020</b> , 55, 117-147	0.7	
5	S.25.02 Ion channels and exchangers as potential targets for stroke therapy. <i>European Neuropsychopharmacology</i> , <b>2010</b> , 20, S201	1.2	
4	Na <sup>+</sup> /Ca <sup>2+</sup> Exchangers <b>2021</b> , 1037-1047		
3	Competition among coalitions in a cournot industry: a validation of the porter hypothesis. <i>Japanese Economic Review</i> ,1	0.5	
2	Surgical Methods to Induce Brain Preconditioning <b>2013</b> , 225-240		
1	microRNA 103-1 exerts a neuroprotective effect in stroke by enhancing ncx1 expression in the brain (654.1). <i>FASEB Journal</i> , <b>2014</b> , 28, 654.1	0.9	