Peter Kaplan

List of Publications by Year
in descending order

66 papers	1,682 citations	218677 26 h-index	302126 39 g-index
68 all docs	68 docs citations	68 times ranked	2262 citing authors

#	Article	IF	Citations
1	Free radical-induced protein modification and inhibition of Ca2+-ATPase of cardiac sarcoplasmic reticulum. Molecular and Cellular Biochemistry, 2003, 248, 41-47.	3.1	126
2	The Involvement of Mg²⁺in Regulation of Cellular and Mitochondrial Functions. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-8.	4.0	104
3	Role of Homocysteine in the Ischemic Stroke and Development of Ischemic Tolerance. Frontiers in Neuroscience, 2016, 10, 538.	2.8	85
4	Homocysteine and Mitochondria in Cardiovascular and Cerebrovascular Systems. International Journal of Molecular Sciences, 2020, 21, 7698.	4.1	85
5	Effect of ischemia and reperfusion on sarcoplasmic reticulum calcium uptake.. Circulation Research, 1992, 71, 1123-1130.	4.5	70
6	Ischemic Tolerance: The Mechanisms of Neuroprotective Strategy. Anatomical Record, 2009, 292, 2002-2012.	1.4	70
7	Intracellular Signaling MAPK Pathway After Cerebral Ischemiaâ€“Reperfusion Injury. Neurochemical Research, 2012, 37, 1568-1577.	3.3	70
8	Membrane ion transport systems during oxidative stress in rodent brain: Protective effect of stobadine and other antioxidants. Life Sciences, 1999, 65, 1951-1958.	4.3	61
9	Mitochondrial Calcium Transport and Mitochondrial Dysfunction After Global Brain Ischemia in Rat Hippocampus. Neurochemical Research, 2009, 34, 1469-1478.	3.3	55
10	Molecular Mechanisms Leading to Neuroprotection/Ischemic Tolerance: Effect of Preconditioning on the Stress Reaction of Endoplasmic Reticulum. Cellular and Molecular Neurobiology, 2009, 29, 917-925.	3.3	53
11	Molecular Analysis of Endoplasmic Reticulum Stress Response After Global Forebrain Ischemia/Reperfusion in Rats: Effect of Neuroprotectant Simvastatin. Cellular and Molecular Neurobiology, 2009, 29, 181-192.	3.3	48
12	Effect of aging on the expression of intracellular Ca2+ transport proteins in a rat heart. Molecular and Cellular Biochemistry, 2007, 301, 219-226.	3.1	39
13	Alterations Induced by Ischemic Preconditioning on Secretory Pathways Ca2+-ATPase (SPCA) Gene Expression and Oxidative Damage After Global Cerebral Ischemia/Reperfusion in Rats. Cellular and Molecular Neurobiology, 2009, 29, 909-916.	3.3	36
14	Effect of aging on formation of reactive oxygen species byâ€¯mitochondria ofâ€¯rat heart. General Physiology and Biophysics, 2014, 32, 415-420.	0.9	36
15	Mechanisms Involved in the Ischemic Tolerance in Brain: Effect of the Homocysteine. Cellular and Molecular Neurobiology, 2015, 35, 7-15.	3.3	36
16	The role of plasma membrane CA2+ Pumps (PMCAs) in pathologies of mammalian cells. Frontiers in Bioscience - Landmark, 2002, 7, d53.	3.0	35
17	Change in fluidity of brain endoplasmic reticulum membranes by oxygen free radicals: A protective effect of stobadine, Î±-tocopherol acetate, and butylated hydroxytoluene. Neurochemical Research, 1995, 20, 815-820.	3.3	33
18	Impact of Ginkgo Biloba Extract EGb 761 on Ischemia/Reperfusion â€“ Induced Oxidative Stress Products Formation in Rat Forebrain. Cellular and Molecular Neurobiology, 2006, 26, 1341-1351.	3.3	32

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19	Androgen receptor and soy isoflavones in prostate cancer (Review). Molecular and Clinical Oncology, 2018, 10, 191-204.	1.0	32
20	Iron-induced lipid peroxidation and protein modification in endoplasmic reticulum membranes. Protection by stobadine. International Journal of Biochemistry and Cell Biology, 2000, 32, 539-547.	2.8	31
21	Ischemia-Induced Mitochondrial Apoptosis is Significantly Attenuated by Ischemic Preconditioning. Cellular and Molecular Neurobiology, 2009, 29, 901-908.	3.3	31
22	The role of plasma membrane CA sup 2 sup Pumps PMCAs in pathologies of mammalian cells. Frontiers in Bioscience - Landmark, 2002, 7, d53-84.	3.0	30
23	Myocardial Ca²⁺handling and cell-to-cell coupling, key factors in prevention of sudden cardiac deathThis article is one of a selection of papers published in a special issue on Advances in Cardiovascular Research.. Canadian Journal of Physiology and Pharmacology, 2009, 87, 1120-1129.	1.4	30
24	The role of CYP17A1 in prostate cancer development: structure, function, mechanism of action, genetic variations and its inhibition. General Physiology and Biophysics, 2017, 36, 487-499.	0.9	29
25	Alteration in Rabbit Brain Endoplasmic Reticulum Ca2+ Transport by Free Oxygen Radicals in Vitro. Biochemical and Biophysical Research Communications, 1994, 199, 63-69.	2.1	27
26	The Effect of Aging on Mitochondrial Complex I and the Extent of Oxidative Stress in the Rat Brain Cortex. Neurochemical Research, 2016, 41, 2160-2172.	3.3	27
27	Oxidative modifications of cardiac mitochondria and inhibition of cytochrome<i>c</i>oxidase activity by 4-hydroxynonenal. Redox Report, 2007, 12, 211-218.	4.5	26
28	Iron-induced inhibition of Na+, K(+)-ATPase and Na+/Ca2+ exchanger in synaptosomes: protection by the pyridoindole stobadine. Neurochemical Research, 1997, 22, 1523-1529.	3.3	23
29	Distribution of plasma membrane Ca2+ pump (PMCA) isoforms in the gerbil brain: effect of ischemia-reperfusion injury. Neurochemistry International, 1999, 35, 221-227.	3.8	23
30	Distribution of Secretory Pathway Ca 2+ ATPase (SPCA1) in Neuronal and Glial Cell Cultures. Cellular and Molecular Neurobiology, 2006, 26, 1353-1363.	3.3	23
31	Effects of mild hyperhomocysteinemia on electron transport chain complexes, oxidative stress, and protein expression in rat cardiac mitochondria. Molecular and Cellular Biochemistry, 2016, 411, 261-270.	3.1	22
32	Effect of Long-Term Normobaric Hyperoxia on Oxidative Stress in Mitochondria of the Guinea Pig Brain. Neurochemical Research, 2011, 36, 1475-1481.	3.3	21
33	Effect of Ischemic Preconditioning on Mitochondrial Dysfunction and Mitochondrial P53 Translocation after Transient Global Cerebral Ischemia in Rats. Neurochemical Research, 2007, 32, 1823-1832.	3.3	19
34	Lipid peroxidation both inhibits Ca2 â€ATPase and increases Ca2 permeability of endoplasmic reticulum membrane. IUBMB Life, 1997, 41, 647-655.	3.4	18
35	Age-related Oxidative Modifications of Proteins and Lipids in Rat Brain. Neurochemical Research, 2007, 32, 1351-1356.	3.3	18
36	Time Course of Peripheral Oxidative Stress as Consequence of Global Ischaemic Brain Injury in Rats. Cellular and Molecular Neurobiology, 2008, 28, 431-441.	3.3	18

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37	Global brain ischemia in rats is associated with mitochondrial release and downregulation of Mfn2 in the cerebral cortex, but not the hippocampus. International Journal of Molecular Medicine, 2019, 43, 2420-2428.	4.0	18
38	Effect of free radical scavengers on myocardial function and Na+, K+-ATPase activity in stunned rabbit myocardium. Scandinavian Cardiovascular Journal, 2005, 39, 213-219.	1.2	16
39	Response of secretory pathways Ca2+ ATPase gene expression toâ€¯hyperhomocysteinemia and/orâ€¯ischemic preconditioning inâ€¯rat cerebral cortex andâ€¯hippocampus. General Physiology and Biophysics, 2011, 30, 61-69.	0.9	15
40	Phosphorylation by Protein Kinases A and C of Myofibrillar Proteins in Rabbit Stunned and Non-stunned Myocardium. Journal of Molecular and Cellular Cardiology, 1997, 29, 3189-3202.	1.9	14
41	Tyrosine nitration of mitochondrial proteins during myocardial ischemia and reperfusion. Journal of Physiology and Biochemistry, 2019, 75, 217-227.	3.0	11
42	Differential profiling of prostate tumors versus benign prostatic tissues by using a 2DE-MALDI-TOF-based proteomic approach. Neoplasma, 2021, 68, 154-164.	1.6	11
43	Cross-talk of intracellular calcium stores in the response to neuronal ischemia and ischemic tolerance. General Physiology and Biophysics, 2009, 28 Spec No Focus, F104-14.	0.9	11
44	The effects of ryanodine on calcium uptake by the sarcoplasmic reticulum of ischemic and reperfused rat myocardium. Fundamental and Clinical Pharmacology, 1997, 11, 315-321.	1.9	7
45	Calcium uptake by the sarcoplasmic reticulum, high energy content and histological changes in ischemic cardiomyopathy. Cardiovascular Research, 1998, 37, 515-523.	3.8	7
46	Effects of long-term oxygen treatment on Î±-ketoglutarate dehydrogenase activity and oxidative modifications in mitochondria of the guinea pig heart. European Journal of Medical Research, 2009, 14, 116-20.	2.2	7
47	Age-Associated Changes in Antioxidants and Redox Proteins of Rat Heart. Physiological Research, 2019, 68, 883-892.	0.9	7
48	Ischemia-induced inhibition of active calcium transport into gerbil brain microsomes: effect of anesthetics and models of ischemia. Neurochemical Research, 2000, 25, 285-292.	3.3	6
49	Effect of normobaric oxygen treatment on oxidative stress andâ€¯enzyme activities inâ€¯guinea pig heart. General Physiology and Biophysics, 2012, 31, 179-184.	0.9	6
50	A comparison of albumin removal procedures for proteomic analysis ofÂblood plasma. General Physiology and Biophysics, 2019, 38, 305-314.	0.9	6
51	Effect of myocardial stunning on thiol status, myofibrillar ATPase and troponin I proteolysis. Molecular and Cellular Biochemistry, 2002, 233, 145-152.	3.1	4
52	Metabolic Changes Induced by Cerebral Ischemia, the Effect of Ischemic Preconditioning, and Hyperhomocysteinemia. Biomolecules, 2022, 12, 554.	4.0	3
53	Proteomic analysis of mitochondrial proteins in the guinea pig heart following long-term normobaric hyperoxia. Molecular and Cellular Biochemistry, 2017, 434, 61-73.	3.1	2
54	Effect of hyperhomocysteinemia on rat cardiac sarcoplasmic reticulum. Molecular and Cellular Biochemistry, 2022, 477, 1621-1628.	3.1	2

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55	Role of Genetic Variations in<i>CDK2</i>,<i>CCNE1</i>and<i>p27^{KIP1}</i>in Prostate Cancer. Cancer Genomics and Proteomics, 2022, 19, 362-371.	2.0	2
56	Total antioxidant capacity and oxidative damage to proteins and lipids in aged rat heart. Journal of Molecular and Cellular Cardiology, 2007, 42, S117-S118.	1.9	1
57	Association of MDM2 T309G (rs2279744) Polymorphism and Expression Changes With Risk of Prostate Cancer in the Slovak Population. Anticancer Research, 2020, 40, 6257-6264.	1.1	1
58	Crucial role of Heart cell Ca2+ handling in initiation, sustaining and termination of lethal arrhythmias. Journal of Molecular and Cellular Cardiology, 2007, 42, S7.	1.9	0
59	Study of the rat heart low-molecular metabolites by magnetic resonance spectroscopy. Journal of Molecular and Cellular Cardiology, 2007, 42, S240.	1.9	0
60	Accumulation of 4-hydroxynonenal protein adducts and Bax protein in rat hearts during aging. Journal of Molecular and Cellular Cardiology, 2008, 44, 723.	1.9	0
61	Expression of Ca2+-handling proteins in aged rat heart. Journal of Molecular and Cellular Cardiology, 2008, 44, 723-724.	1.9	0
62	Mechanisms of Ischemic Induced Neuronal Death and Ischemic Tolerance. , 0, , .		0
63	Neuroprotection exerted by ischemic preconditioning in rat hippocampus involves extracellular signal receptor changes. SpringerPlus, 2015, 4, .	1.2	0
64	Forebrain Ischemic Stroke and the Phenomenon of Ischemic Tolerance: Is Homocysteine Foe or Friend?. , 0, , .		0
65	Ischemia-Reperfusion Decreases Protein Levels of InsP3 Receptor and PMCA but not Organellar Ca2+ Pump and Calreticulin in Gerbil Forebrain. , 1997, , 375-382.		0
66	Immunological and Functional Identification of Intracellular Ca2+ Store from Gerbil Forebrain. , 1997, , 383-388.		0