Vsevolod G Pinelis

List of Publications by Year
in descending order

110	1,480	279701 23	377752 34
papers	citations	h-index	g-index

121	121	121	1661
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Acute and Delayed Effects of Mechanical Injury on Calcium Homeostasis and Mitochondrial Potential of Primary Neuroglial Cell Culture: Potential Causal Contributions to Post-Traumatic Syndrome. International Journal of Molecular Sciences, 2022, 23, 3858.	1.8	4
2	Polymorphism of the APOE Gene and Markers of Brain Damage in the Outcomes of Severe Traumatic Brain Injury in Children. Neuroscience and Behavioral Physiology, 2021, 51, 28-35.	0.2	2
3	Brain Biomarkers in Children After Mild and Severe Traumatic Brain Injury. Acta Neurochirurgica Supplementum, 2021, 131, 103-107.	0.5	7
4	Brain Insulin Resistance: Focus on Insulin Receptor-Mitochondria Interactions. Life, 2021, 11, 262.	1.1	12
5	The effect of DS16570511, a new inhibitor of mitochondrial calcium uniporter, on calcium homeostasis, metabolism, and functional state of cultured cortical neurons and isolated brain mitochondria. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129847.	1.1	8
6	Insulin Normalizes Ionic Homeostasis and the State of Mitochondria after a Mechanical Damage to the Culture of Brain Neurons. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2021, 15, 365-371.	0.3	1
7	Lipopolysaccharide From E. coli Increases Glutamate-Induced Disturbances of Calcium Homeostasis, the Functional State of Mitochondria, and the Death of Cultured Cortical Neurons. Frontiers in Molecular Neuroscience, 2021, 14, 811171.	1.4	8
8	Chitosan-g-oligo(L,L-lactide) copolymer hydrogel for nervous tissue regeneration in glutamate excitotoxicity: in vitro feasibility evaluation. Biomedical Materials (Bristol), 2020, 15, 015011.	1.7	18
9	Viscoelasticity and Volume of Cortical Neurons under Glutamate Excitotoxicity and Osmotic Challenges. Biophysical Journal, 2020, 119, 1712-1723.	0.2	10
10	Neuroprotective Potential of Peptides HFRWPGP (ACTH6â€“9PGP), KKRRPGP, and PyrRP in Cultured Cortical Neurons at Glutamate Excitotoxicity. Doklady Biochemistry and Biophysics, 2020, 491, 62-66.	0.3	10
11	Insulin Receptors and Intracellular Ca2+ Form a Double-Negative Regulatory Feedback Loop Controlling Insulin Sensitivity. F1000Research, 2020, 9, 598.	0.8	3
12	Insulin Receptors and Intracellular Ca2+ Form a Double-Negative Regulatory Feedback Loop Controlling Insulin Sensitivity. F1000Research, 2020, 9, 598.	0.8	4
13	Insulin Protects Cortical Neurons Against Glutamate Excitotoxicity. Frontiers in Neuroscience, 2019, 13, 1027.	1.4	29
14	Excitotoxic glutamate causes neuronal insulin resistance by inhibiting insulin receptor/Akt/mTOR pathway. Molecular Brain, 2019, 12, 112.	1.3	24
15	Study of the Mechanism of the Neuron Sensitization to the Repeated Glutamate Challenge. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2018, 12, 369-381.	0.3	5
16	MicroRNA expression profile in patients in the early stages of ischemic stroke. Nevrologiya, Neiropsikhiatriya, Psikhosomatika, 2018, 10, 72-78.	0.2	0
17	Disruption of functional activity of mitochondria during MTT assay of viability of cultured neurons. Biochemistry (Moscow), 2017, 82, 737-749.	0.7	37
18	Estimation of time-dependent microRNA expression patterns in brain tissue, leukocytes, and blood plasma of rats under photochemically induced focal cerebral ischemia. Molecular Biology, 2017, 51, 602-613.	0.4	10

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19	New synthetic peptide protects neurons from death induced by toxic influence of activated mast cells via protease-activated receptor. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2016, 10, 126-134.	0.3	3
20	Effect of neurotrophinâ€3 precursor on glutamateâ€induced calcium homeostasis deregulation in rat cerebellum granule cells. Journal of Neuroscience Research, 2015, 93, 1865-1873.	1.3	3
21	Peptides analogous to tethered ligands liberated by activated protein C exert neuroprotective effects in glutamate-induced excitotoxicity. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2014, 8, 116-120.	0.3	2
22	Activated protein C and thrombin participate in the regulation of astrocyte functions. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2014, 8, 50-59.	0.3	2
23	Study on ATP concentration changes in cytosol of individual cultured neurons during glutamate-induced deregulation of calcium homeostasis. Biochemistry (Moscow), 2014, 79, 146-157.	0.7	28
24	NF-ÎºB-dependent and -independent pathways in the protective effects of activated protein C in hippocampal and cortical neurons at excitotoxicity. Neurochemistry International, 2013, 63, 101-111.	1.9	13
25	Mitochondrial H₂O₂ as an enable signal for triggering autophosphorylation of insulin receptor in neurons. Journal of Molecular Signaling, 2013, 8, 11.	0.5	24
26	Effects of Selective Inhibitors of Neuronal and Inducible NO-Synthase on ATP Content and Survival of Cultured Rat Cerebellar Neurons during Hyperstimulation of Glutamate Receptors. Bulletin of Experimental Biology and Medicine, 2013, 155, 40-43.	0.3	9
27	Autoantibodies to the Î±7 Subunit of the Neuronal Acetylcholine Receptor in Craniocerebral Trauma in Children. Neuroscience and Behavioral Physiology, 2012, 42, 740-744.	0.2	2
28	Activated protein C is the regulator of the NF-ÎºB activity under the conditions of glutamate toxicity. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2012, 6, 56-66.	0.3	0
29	Mitochondrial lipid pore in the mechanism of glutamate-induced calcium deregulation of brain neurons. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2012, 6, 45-55.	0.3	4
30	Dramatic effect of glycolysis inhibition on the cerebellar granule cells bioenergetics. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2012, 6, 186-197.	0.3	3
31	Comparative analysis of cytosolic and mitochondrial ATP synthesis in embryonic and postnatal hippocampal neuronal cultures. Frontiers in Molecular Neuroscience, 2012, 5, 102.	1.4	25
32	KBâ€R7943, an inhibitor of the reverse Na⁺/Ca²⁺ exchanger, blocks Nâ€methylâ€Dâ€aspartate receptor and inhibits mitochondrial complex I. British Journal of Pharmacology, 2011, 162, 255-270.	2.7	50
33	Changes in mitochondrial NAD(P)H and glutamate-induced delayed calcium deregulation in cultured rat cerebellar granule neurons. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2010, 4, 32-37.	0.3	1
34	Neuroprotective Effect of KB-R7943 Against Glutamate Excitotoxicity is Related to Mild Mitochondrial Depolarization. Neurochemical Research, 2010, 35, 323-335.	1.6	14
35	Effect of enteropeptidase on survival of cultured hippocampal neurons under conditions of glutamate toxicity. Biochemistry (Moscow), 2010, 75, 1153-1159.	0.7	2
36	Activated protein C prevents glutamate- and thrombin-induced activation of nuclear factor-ÎºB in cultured hippocampal neurons. Neuroscience, 2010, 165, 1138-1146.	1.1	33

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37	Role of 2-oxoglutarate dehydrogenase in brain pathologies involving glutamate neurotoxicity. Journal of Molecular Catalysis B: Enzymatic, 2009, 61, 80-87.	1.8	22
38	Synthetic regulators of the 2-oxoglutarate oxidative decarboxylation alleviate the glutamate excitotoxicity in cerebellar granule neurons. Biochemical Pharmacology, 2009, 77, 1531-1540.	2.0	25
39	Autoantibodies to Glutamate Receptors and Products of Nitric Oxide Metabolism in Serum in Children in the Acute Phase of Craniocerebral Trauma. Neuroscience and Behavioral Physiology, 2009, 39, 329-334.	0.2	15
40	Cortexin and combination of nitrite with cortexin decrease swelling and destruction of cerebellar neurons in hemorrhagic stroke. Doklady Biological Sciences, 2009, 426, 201-204.	0.2	3
41	Phosphono Analogues of 2â€Oxoglutarate Protect Cerebellar Granule Neurons upon Glutamate Excitotoxicity. Annals of the New York Academy of Sciences, 2009, 1171, 521-529.	1.8	13
42	Endothelial protein C receptor is expressed in rat cortical and hippocampal neurons and is necessary for protective effect of activated protein C at glutamate excitotoxicity. Journal of Neurochemistry, 2009, 111, 967-975.	2.1	33
43	Evidence for pore opening in mitochondrial membrane during glutamate-induced delayed calcium deregulation in brain neurons. Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology, 2009, 3, 336-337.	0.3	1
44	Role of protein kinase C in Ca2+ homeostasis disorders in cultured rat neurons during hyperstimulation of glutamate receptors. Bulletin of Experimental Biology and Medicine, 2008, 145, 595-599.	0.3	1
45	Dicholine salt of succinic acid, a neuronal insulin sensitizer, ameliorates cognitive deficits in rodent models of normal aging, chronic cerebral hypoperfusion, and beta-amyloid peptide-(25â€“35)-induced amnesia. BMC Pharmacology, 2008, 8, 1.	0.4	30
46	Retranslocation of active protein kinase C-beta II during calcium overload of cultured neurons. Neurochemical Journal, 2008, 2, 252-258.	0.2	1
47	Activated protein C via PAR1 receptor regulates survival of neurons under conditions of glutamate excitotoxicity. Biochemistry (Moscow), 2008, 73, 717-724.	0.7	14
48	Measurements of mitochondrial pH in cultured cortical neurons clarify contribution of mitochondrial pore to the mechanism of glutamate-induced delayed Ca2+ deregulation. Cell Calcium, 2008, 43, 602-614.	1.1	37
49	Single fluorescent protein-based Ca2+ sensors with increased dynamic range. BMC Biotechnology, 2007, 7, 37.	1.7	99
50	Na+/Ca2+ exchange and regulation of cytoplasmic concentration of calcium in rat cerebellar neurons treated with glutamate. Biochemistry (Moscow), 2007, 72, 750-759.	0.7	3
51	Mitochondrial respiratory chain is involved in insulin-stimulated hydrogen peroxide production and plays an integral role in insulin receptor autophosphorylation in neurons. BMC Neuroscience, 2007, 8, 84.	0.8	60
52	Nitric oxide is involved in the protective effects of short-term adaptaion to hypoxia in the course of stress-induced disorders in Krushinsky-Molodkina rats. Biology Bulletin, 2007, 34, 271-276.	0.1	5
53	Glutamate receptor autoantibody concentrations in children with chronic post-traumatic headache. Neuroscience and Behavioral Physiology, 2007, 37, 761-764.	0.2	31
54	Changes in ATP content in cerebellar granule cells during hyperstimulation of glutamate receptors: Possible role of NO and nitrite ions. Bulletin of Experimental Biology and Medicine, 2007, 143, 442-445.	0.3	13

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55	Effects of semax and its Pro-Gly-Pro fragment on calcium homeostasis of neurons and their survival under conditions of glutamate toxicity. Bulletin of Experimental Biology and Medicine, 2007, 143, 601-604.	0.3	33
56	Protease-activated receptor (PAR)1-mediated anti-apoptotic effect of activated protein C on glutamate excitotoxicity in hippocampal neurons. Thrombosis and Haemostasis, 2007, 98, 1150-1152.	1.8	6
57	Factor Xa protects cultured hippocampal neurons from glutamate toxicity. Journal of Thrombosis and Haemostasis, 2006, 4, 1409-1410.	1.9	5
58	Arachidonic acid enhances intracellular [Ca2+]i increase and mitochondrial depolarization induced by glutamate in cerebellar granule cells. Biochemistry (Moscow), 2006, 71, 864-870.	0.7	6
59	Modulation of hippocampal neuron survival by thrombin and factor Xa. Biochemistry (Moscow), 2006, 71, 1082-1089.	0.7	19
60	Effect of antibodies against AMPA glutamate receptors on brain neurons in primary cultures of the cerebellum and hippocampus. Bulletin of Experimental Biology and Medicine, 2006, 142, 51-54.	0.3	2
61	Proteinase-Activated Type 1 Receptors are Involved in the Mechanism of Protection of Rat Hippocampal Neurons from Glutamate Toxicity. Bulletin of Experimental Biology and Medicine, 2005, 140, 285-288.	0.3	6
62	LDL induces intracellular signalling and cell migration via atypical LDL-binding protein T-cadherin. Molecular and Cellular Biochemistry, 2005, 273, 33-41.	1.4	46
63	Ischemic and hemorrhagic disturbances in cerebral circulation alter contractile responses of the rat middle cerebral artery. Brain Research, 2004, 995, 145-149.	1.1	12
64	Role of Thrombin in Activation of Neurons in Rat Hippocampus. Bulletin of Experimental Biology and Medicine, 2004, 137, 453-456.	0.3	3
65	The leading role of membrane Ca(2+)-ATPase in recovery of Ca(2+) homeostasis after glutamate shock. Bulletin of Experimental Biology and Medicine, 2003, 135, 139-142.	0.3	5
66	The leading role of mitochondrial depolarization in the mechanism of glutamate-induced disruptions in Ca2+ homeostasis. Neuroscience and Behavioral Physiology, 2002, 32, 541-547.	0.2	23
67	Induction of cyclosporin A-sensitive pore in mitochondria of intact neurons during uncoupling of oxidative phosphorylation. Bulletin of Experimental Biology and Medicine, 2001, 131, 440-443.	0.3	2
68	Decreased intraplatelet Ca 2+ release and ATP secretion in pediatric nephrotic syndrome. Pediatric Nephrology, 1999, 13, 205-208.	0.9	6
69	Li+ protects nerve cells against destabilization of Ca2+ homeostasis and delayed death caused by removal of external Na+. FEBS Letters, 1999, 448, 173-176.	1.3	8
70	Blockade of mitochondrial Ca2+ uptake by mitochondrial inhibitors amplifies the glutamate-induced calcium response in cultured cerebellar granule cells. FEBS Letters, 1999, 458, 162-166.	1.3	33
71	The mitochondrial permeability transition: the brain's point of view. Biochemical Society Symposia, 1999, 66, 75-84.	2.7	24
72	Effect of external pH on initial tone of rat basilar artery and its reactions to serotonin. Bulletin of Experimental Biology and Medicine, 1998, 125, 219-221.	0.3	0

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73	Role of Na+ /Ca2+ exchange in regulation of neuronal Ca2+ homeostasis requires re-evaluation. FEBS Letters, 1998, 431, 215-218.	1.3	21
74	Toxic effect of glutamate on granular cells of the cerebellum reduces cell ATP content. The role of calcium ions. Bulletin of Experimental Biology and Medicine, 1997, 123, 136-138.	0.3	4
75	Dominant role of mitochondria in protection against a delayed neuronal Ca2+ overload induced by endogenous excitatory amino acids following a glutamate pulse. FEBS Letters, 1996, 393, 135-138.	1.3	48
76	Mitochondrial deenergization underlies neuronal calcium overload following a prolonged glutamate challenge. FEBS Letters, 1996, 397, 230-234.	1.3	88
77	Reactivity of the basilar artery in Krushinsky-Molodkina rats 24 hours after an audiogenic epileptic seizure. Bulletin of Experimental Biology and Medicine, 1996, 121, 120-123.	0.3	1
78	Bepridil Exacerbates Glutamate-Induced Deterioration of Calcium Homeostasis and Cultured Nerve Cell Injury. International Journal of Neuroscience, 1996, 88, 199-214.	0.8	10
79	Effect of a Prolonged Glutamate Challenge on Plasmalemmal Calcium Permeability in Mammalian Central Neurones. Mn2+as a Tool to Study Calcium Influx Pathways. International Journal of Neuroscience, 1996, 88, 215-241.	0.8	22
80	Thrombin-Mediated Events Implicated in Mast Cell Activation. Seminars in Thrombosis and Hemostasis, 1996, 22, 145-150.	1.5	25
81	Synthetic analog of the thymosinÎ±1 fragment 24â€“28 alters the coagulating and aggregating activities of Î±-thrombin. Bulletin of Experimental Biology and Medicine, 1995, 120, 671-674.	0.3	0
82	Dramatic effects of external alkalinity on neuronal calcium recovery following a short-duration glutamate challenge: the role of the plasma membrane Ca2+/H+pump. FEBS Letters, 1995, 371, 249-252.	1.3	21
83	Adaptation to multiple electrostimulation limits hemorrhages in the brain of rats with audiogenic epilepsy. Bulletin of Experimental Biology and Medicine, 1994, 117, 125-128.	0.3	0
84	Changes in cytosolic sodium caused by a toxic glutamate treatment of cultured hippocampal neurons. IUBMB Life, 1994, 32, 475-82.	0.1	13
85	Changes in systemic hemodyamics after acute administration of diazepam binding inhibitor (DBI) and after autoimmunization against DBI. Bulletin of Experimental Biology and Medicine, 1993, 115, 521-523.	0.3	1
86	Adaptation to periodic hypoxia restricts subdural hemorrhage during audiogenic epileptic seizures in rats. Bulletin of Experimental Biology and Medicine, 1993, 116, 1465-1467.	0.3	0
87	Effect of endothelin-1 on the adrenoreactivity of blood vessels and on the participation of G-proteins and protein kinase C in endothelin-1-induced vasoconstriction. Bulletin of Experimental Biology and Medicine, 1993, 116, 1227-1230.	0.3	0
88	Compensatory-adaptive mechanisms during nitric hypoxia in rats. Bulletin of Experimental Biology and Medicine, 1993, 116, 1387-1390.	0.3	1
89	Role of extracellular calcium in endothelin-1-induced vasoconstriction. Bulletin of Experimental Biology and Medicine, 1993, 116, 1086-1089.	0.3	1
90	On the origin of a sustained increase in cytosolic Ca2+concentration after a toxic glutamate treatment of the nerve cell culture. FEBS Letters, 1993, 324, 271-273.	1.3	43

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91	Effect of endothelin-I on Na+/H+ exchange in vascular smooth muscle cells. Bulletin of Experimental Biology and Medicine, 1992, 114, 1784-1787.	0.3	3
92	Effect of mite allergen on Na/H exchange in peritoneal mast cells. Bulletin of Experimental Biology and Medicine, 1992, 114, 1869-1872.	0.3	0
93	Vasoconstrictor reactions in spontaneously hypertensive rats versus Wistar Kyoto can be increased or decreased depending on the conditions of perfusion. Acta Physiologica Scandinavica, 1992, 146, 185-196.	2.3	6
94	Measurement of the intracellular Ca2+ concentration in macrophages and the effect of platelet activation factor. Bulletin of Experimental Biology and Medicine, 1991, 111, 752-755.	0.3	0
95	Intracellur signalling pathways and binding of endothelin in vascular smooth muscle cells. European Journal of Pharmacology, 1990, 183, 676.	1.7	0
96	Platelet Na+/H+ exchange in spontaneously hypertensive rats. Bulletin of Experimental Biology and Medicine, 1989, 107, 200-202.	0.3	1
97	Sympathetic neurons in the superior cervical ganglion are more numerous in SHR and Wistar-Kyoto rats than in wistar rats. Bulletin of Experimental Biology and Medicine, 1989, 108, 1651-1653.	0.3	0
98	Blockade of ADP-induced Ca2+ -signal and platelet aggregation by lipoxygenase inhibitors. FEBS Letters, 1989, 257, 345-347.	1.3	9
99	Comparative analysis of effectiveness of synaptic influences on resistive vessels of spontaneously hypertensive and normotensive rats during constantflow, constant-pressure perfusion. Bulletin of Experimental Biology and Medicine, 1988, 106, 1666-1669.	0.3	0
100	Correlation between changes in Na+/H+-exchange and cytoplasmic Ca concentration during platelet activation. Bulletin of Experimental Biology and Medicine, 1988, 106, 1263-1266.	0.3	0
101	Effect of emotional stress on contractility and sensitivity of portal vein smooth muscles to noradrenalin and calcium in spontaneously hypertensive rats. Bulletin of Experimental Biology and Medicine, 1987, 103, 166-169.	0.3	0
102	Functional state of portal vein smooth muscles in spontaneously hypertensive rats. Bulletin of Experimental Biology and Medicine, 1987, 103, 311-314.	0.3	0
103	Development of hypertension and increased aortic relaxation in spontaneously hypertensive rats after neonatal sympathectomy. Bulletin of Experimental Biology and Medicine, 1987, 103, 595-597.	0.3	0
104	Changes in systemic hemodynamics during the development of DOCA-salt hypertension. Effect of neonatal sympathectomy. Bulletin of Experimental Biology and Medicine, 1985, 99, 11-13.	0.3	2
105	Rarefication of the arterioles and capillary network in the brain of rats with different forms of hypertension. Microvascular Research, 1985, 30, 1-9.	1.1	63
106	Time course of poststress recovery of portal vein contractility and adrenoreactivity. Bulletin of Experimental Biology and Medicine, 1984, 97, 559-561.	0.3	0
107	Effect of chemical sympathectomy on the development of DOCA-salt hypertension in rats. Bulletin of Experimental Biology and Medicine, 1983, 96, 1671-1675.	0.3	0
108	Effect of emotional-painful stress on resistance of portal vein contractility to changes in calcium concentration and to anoxia. Bulletin of Experimental Biology and Medicine, 1983, 96, 1352-1354.	0.3	0

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109	Effect of neonatal sympathectomy on systemic hemodynamics and myocardial contractility in spontaneously hypertensive rats. Bulletin of Experimental Biology and Medicine, 1983, 96, 1379-1382.	0.3	0
110	State of resistive limb vessels in spontaneously hypertensive rats. Bulletin of Experimental Biology and Medicine, 1982, 94, 1345-1348.	0.3	0