

Felicita Pedata

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121
papers

5,414
citations

43
h-index

69
g-index

131
ext. papers

5,895
ext. citations

5.3
avg, IF

5.21
L-index

#	Paper	IF	Citations
121	Adenosine in the central nervous system: release mechanisms and extracellular concentrations. <i>Journal of Neurochemistry</i> , 2001 , 79, 463-84	6	561
120	Adenosine A2A receptors and brain injury: broad spectrum of neuroprotection, multifaceted actions and "fine tuning" modulation. <i>Progress in Neurobiology</i> , 2007 , 83, 310-31	10.9	205
119	ATP extracellular concentrations are increased in the rat striatum during in vivo ischemia. <i>Neurochemistry International</i> , 2005 , 47, 442-8	4.4	201
118	Striatal outflow of adenosine, excitatory amino acids, gamma-aminobutyric acid, and taurine in awake freely moving rats after middle cerebral artery occlusion: correlations with neurological deficit and histopathological damage. <i>Stroke</i> , 1999 , 30, 2448-54; discussion 2455	6.7	128
117	P2X7 receptor modulation on microglial cells and reduction of brain infarct caused by middle cerebral artery occlusion in rat. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006 , 26, 974-82	7.3	120
116	The selective A2A receptor antagonist SCH 58261 reduces striatal transmitter outflow, turning behavior and ischemic brain damage induced by permanent focal ischemia in the rat. <i>Brain Research</i> , 2003 , 959, 243-50	3.7	105
115	Extracellular adenosine concentrations during in vitro ischaemia in rat hippocampal slices. <i>British Journal of Pharmacology</i> , 1999 , 127, 729-39	8.6	105
114	Acetylcholine release from rat cortical slices during postnatal development and aging. <i>Neurobiology of Aging</i> , 1983 , 4, 31-5	5.6	104
113	Purinergic signalling in brain ischemia. <i>Neuropharmacology</i> , 2016 , 104, 105-30	5.5	101
112	Investigations into the adenosine outflow from hippocampal slices evoked by ischemia-like conditions. <i>Journal of Neurochemistry</i> , 1993 , 61, 284-9	6	99
111	Adenosine extracellular brain concentrations and role of A2A receptors in ischemia. <i>Annals of the New York Academy of Sciences</i> , 2001 , 939, 74-84	6.5	96
110	Changes in high affinity choline uptake in rat cortex following lesions of the magnocellular forebrain nuclei. <i>Brain Research</i> , 1982 , 233, 359-67	3.7	96
109	Differential glutamate-dependent and glutamate-independent adenosine A1 receptor-mediated modulation of dopamine release in different striatal compartments. <i>Journal of Neurochemistry</i> , 2007 , 101, 355-63	6	89
108	A1 and A2 adenosine receptors modulate acetylcholine release from brain slices. <i>European Journal of Pharmacology</i> , 1984 , 97, 341-2	5.3	87
107	Brief, repeated, oxygen-glucose deprivation episodes protect neurotransmission from a longer ischemic episode in the in vitro hippocampus: role of adenosine receptors. <i>British Journal of Pharmacology</i> , 2003 , 140, 305-14	8.6	82
106	Adenosine and memory storage: effect of A(1) and A(2) receptor antagonists. <i>Psychopharmacology</i> , 1999 , 146, 214-9	4.7	80
105	A2 adenosine receptors: their presence and neuromodulatory role in the central nervous system. <i>General Pharmacology</i> , 1996 , 27, 925-33		74

104	Ecto-ATPase inhibition: ATP and adenosine release under physiological and ischemic in vivo conditions in the rat striatum. <i>Experimental Neurology</i> , 2012 , 233, 193-204	5.7	73
103	Selective adenosine A2a receptor antagonism reduces JNK activation in oligodendrocytes after cerebral ischaemia. <i>Brain</i> , 2009 , 132, 1480-95	11.2	73
102	ATP modulates cell proliferation and elicits two different electrophysiological responses in human mesenchymal stem cells. <i>Stem Cells</i> , 2007 , 25, 1840-9	5.8	73
101	Striatal A2A adenosine receptor antagonism differentially modifies striatal glutamate outflow in vivo in young and aged rats. <i>NeuroReport</i> , 2000 , 11, 2591-5	1.7	69
100	Striatal A2A adenosine receptors differentially regulate spontaneous and K ⁺ -evoked glutamate release in vivo in young and aged rats. <i>NeuroReport</i> , 1999 , 10, 687-91	1.7	67
99	Modulation of ischemic brain injury and neuroinflammation by adenosine A2A receptors. <i>Current Pharmaceutical Design</i> , 2008 , 14, 1490-9	3.3	66
98	The selective A2A receptor antagonist SCH 58261 protects from neurological deficit, brain damage and activation of p38 MAPK in rat focal cerebral ischemia. <i>Brain Research</i> , 2006 , 1073-1074, 470-80	3.7	65
97	Modification of adenosine extracellular levels and adenosine A(2A) receptor mRNA by dopamine denervation. <i>European Journal of Pharmacology</i> , 2002 , 446, 75-82	5.3	63
96	Adenosine and glutamate extracellular concentrations and mitogen-activated protein kinases in the striatum of Huntington transgenic mice. Selective antagonism of adenosine A2A receptors reduces transmitter outflow. <i>Neurobiology of Disease</i> , 2004 , 17, 77-88	7.5	63
95	Phosphatidylserine increases acetylcholine release from cortical slices in aged rats. <i>Neurobiology of Aging</i> , 1985 , 6, 337-9	5.6	63
94	A3 adenosine receptor antagonists delay irreversible synaptic failure caused by oxygen and glucose deprivation in the rat CA1 hippocampus in vitro. <i>British Journal of Pharmacology</i> , 2006 , 147, 524-32	8.6	60
93	Effect of adenosine, adenosine triphosphate, adenosine deaminase, dipyridamole and aminophylline on acetylcholine release from electrically-stimulated brain slices. <i>Neuropharmacology</i> , 1983 , 22, 609-14	5.5	59
92	Effect of K ⁺ depolarization, tetrodotoxin, and NMDA receptor inhibition on extracellular adenosine levels in rat striatum. <i>European Journal of Pharmacology</i> , 1993 , 234, 61-5	5.3	57
91	New 2-arylpyrazolo[3,4-c]quinoline derivatives as potent and selective human A3 adenosine receptor antagonists. Synthesis, pharmacological evaluation, and ligand-receptor modeling studies. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 4061-74	8.3	55
90	CGS 21680, an agonist of the adenosine (A2A) receptor, reduces progression of murine type II collagen-induced arthritis. <i>Journal of Rheumatology</i> , 2011 , 38, 2119-29	4.1	53
89	Role of adenosine A3 receptors on CA1 hippocampal neurotransmission during oxygen-glucose deprivation episodes of different duration. <i>Biochemical Pharmacology</i> , 2007 , 74, 768-79	6	52
88	Interactions among adenosine deaminase, adenosine A(1) receptors and dopamine D(1) receptors in stably cotransfected fibroblast cells and neurons. <i>Neuroscience</i> , 2002 , 113, 709-19	3.9	51
87	Effect of adenosine, adenosine derivatives, and caffeine on acetylcholine release from brain synaptosomes: interaction with muscarinic autoregulatory mechanisms. <i>Journal of Neurochemistry</i> , 1986 , 46, 1593-8	6	51

86	The protective effect of adenosine A2A receptor antagonism in cerebral ischemia. <i>Neurological Research</i> , 2005 , 27, 169-74	2.7	49
85	Effect of A2A adenosine receptor stimulation and antagonism on synaptic depression induced by in vitro ischaemia in rat hippocampal slices. <i>British Journal of Pharmacology</i> , 1999 , 128, 1035-44	8.6	49
84	Selective adenosine A2A receptor agonists and antagonists protect against spinal cord injury through peripheral and central effects. <i>Journal of Neuroinflammation</i> , 2011 , 8, 31	10.1	47
83	Extracellular levels of amino acids and choline in human high grade gliomas: an intraoperative microdialysis study. <i>Neurochemical Research</i> , 2004 , 29, 325-34	4.6	46
82	Regulation of extracellular adenosine levels in the striatum of aging rats. <i>Brain Research</i> , 1995 , 684, 103-57	5.7	46
81	UDP-glucose enhances outward K(+) currents necessary for cell differentiation and stimulates cell migration by activating the GPR17 receptor in oligodendrocyte precursors. <i>Glia</i> , 2013 , 61, 1155-71	9	45
80	Functional characterization of two isoforms of the P2Y-like receptor GPR17: [35S]GTPgammaS binding and electrophysiological studies in 1321N1 cells. <i>American Journal of Physiology - Cell Physiology</i> , 2009 , 297, C1028-40	5.4	44
79	The adenosine A2A receptor antagonist ZM241385 enhances neuronal survival after oxygen-glucose deprivation in rat CA1 hippocampal slices. <i>British Journal of Pharmacology</i> , 2009 , 157, 818-30	8.6	43
78	The role of ATP and adenosine in the brain under normoxic and ischemic conditions. <i>Purinergic Signalling</i> , 2007 , 3, 299-310	3.8	43
77	Changes in synaptosomal high affinity choline uptake following electrical stimulation of guinea-pig cortical slices: effect of atropine and physostigmine. <i>British Journal of Pharmacology</i> , 1981 , 74, 525-31	8.6	43
76	Low doses of the selective adenosine A2A receptor agonist CGS21680 are protective in a rat model of transient cerebral ischemia. <i>Brain Research</i> , 2014 , 1551, 59-72	3.7	42
75	Temporal correlation between adenosine outflow and synaptic potential inhibition in rat hippocampal slices during ischemia-like conditions. <i>Brain Research</i> , 1998 , 794, 325-8	3.7	42
74	Adenosine A2A receptor antagonism increases striatal glutamate outflow in dopamine-denervated rats. <i>European Journal of Pharmacology</i> , 2003 , 464, 33-8	5.3	42
73	Adenosine A _{2A} receptors inhibit delayed rectifier potassium currents and cell differentiation in primary purified oligodendrocyte cultures. <i>Neuropharmacology</i> , 2013 , 73, 301-10	5.5	41
72	The selective adenosine A2A receptor agonist CGS 21680 reduces JNK MAPK activation in oligodendrocytes in injured spinal cord. <i>Shock</i> , 2009 , 32, 578-85	3.4	40
71	Adenosine receptors in cerebral ischemia. <i>International Review of Neurobiology</i> , 2014 , 119, 309-48	4.4	39
70	Adenosine A2A receptors modulate acute injury and neuroinflammation in brain ischemia. <i>Mediators of Inflammation</i> , 2014 , 2014, 805198	4.3	39
69	CGS 21680, an agonist of the adenosine (A2A) receptor, decreases acute lung inflammation. <i>European Journal of Pharmacology</i> , 2011 , 668, 305-16	5.3	39

68	Effect of choline, phosphorylcholine and dimethylaminoethanol on brain acetylcholine level in the rat. <i>Pharmacological Research Communications</i> , 1977 , 9, 755-61		37
67	Synthesis, ligand-receptor modeling studies and pharmacological evaluation of novel 4-modified-2-aryl-1,2,4-triazolo[4,3-a]quinoxalin-1-one derivatives as potent and selective human A3 adenosine receptor antagonists. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 6086-102	3.4	36
66	In vivo amino acid release from the striatum of aging rats: adenosine modulation. <i>Neurobiology of Aging</i> , 1997 , 18, 243-50	5.6	35
65	Regulation of A(2A) adenosine receptor expression and functioning following permanent focal ischemia in rat brain. <i>Journal of Neurochemistry</i> , 2008 , 104, 479-90	6	35
64	The neuron-astrocyte-microglia triad in a rat model of chronic cerebral hypoperfusion: protective effect of dipyridamole. <i>Frontiers in Aging Neuroscience</i> , 2014 , 6, 322	5.3	34
63	The source of brain adenosine outflow during ischemia and electrical stimulation. <i>Neurochemistry International</i> , 1995 , 27, 239-44	4.4	34
62	In vivo regulation of extracellular adenosine levels in the cerebral cortex by NMDA and muscarinic receptors. <i>European Journal of Pharmacology</i> , 1994 , 254, 277-82	5.3	34
61	Pyrido[2,3-e]-1,2,4-triazolo[4,3-a]pyrazin-1-one as a new scaffold to develop potent and selective human A3 adenosine receptor antagonists. Synthesis, pharmacological evaluation, and ligand-receptor modeling studies. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 2407-19	8.3	33
60	Effect of adenosine A2A receptor stimulation on GABA release from the striatum of young and aged rats in vivo. <i>NeuroReport</i> , 1999 , 10, 3933-7	1.7	33
59	Cognitive impairment with vascular impairment and degeneration. <i>Current Neurovascular Research</i> , 2011 , 8, 342-50	1.8	31
58	Role of P2 purinergic receptors in synaptic transmission under normoxic and ischaemic conditions in the CA1 region of rat hippocampal slices. <i>Purinergic Signalling</i> , 2007 , 3, 203-19	3.8	30
57	Effect of N-methyl-D-aspartate on motor activity and in vivo adenosine striatal outflow in the rat. <i>European Journal of Pharmacology</i> , 1999 , 385, 15-9	5.3	30
56	Endogenous adenosine release from hippocampal slices: excitatory amino acid agonists stimulate release, antagonists reduce the electrically-evoked release. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1991 , 344, 538-43	3.4	29
55	Regional differences in the electrically stimulated release of endogenous and radioactive adenosine and purine derivatives from rat brain slices. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1990 , 342, 447-53	3.4	29
54	Role of adenosine in oligodendrocyte precursor maturation. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 155	6.1	28
53	3-Hydroxy-1H-quinazoline-2,4-dione derivatives as new antagonists at ionotropic glutamate receptors: molecular modeling and pharmacological studies. <i>European Journal of Medicinal Chemistry</i> , 2012 , 54, 470-82	6.8	28
52	Adenosine extracellular levels in human brain gliomas: an intraoperative microdialysis study. <i>Neuroscience Letters</i> , 2003 , 346, 93-6	3.3	28
51	Are the neurochemical and behavioral changes induced by lesions of the nucleus basalis in the rat a model of Alzheimer's disease?. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 1986 , 10, 541-51	5.5	27

50	Amyloid- β oligomer synaptotoxicity is mimicked by oligomers of the model protein HypF-N. <i>Neurobiology of Aging</i> , 2013 , 34, 2100-9	5.6	26
49	Biphasic effect of methylxanthines on acetylcholine release from electrically-stimulated brain slices. <i>British Journal of Pharmacology</i> , 1984 , 83, 69-73	8.6	25
48	Effects of oxygen and glucose deprivation on synaptic transmission in rat dentate gyrus: role of A2A adenosine receptors. <i>Neuropharmacology</i> , 2013 , 67, 511-20	5.5	24
47	Adenosine A3 receptor activation inhibits pronociceptive N-type Ca ²⁺ currents and cell excitability in dorsal root ganglion neurons. <i>Pain</i> , 2019 , 160, 1103-1118	8	24
46	The Selective Antagonism of Adenosine A Receptors Reduces the Synaptic Failure and Neuronal Death Induced by Oxygen and Glucose Deprivation in Rat CA1 Hippocampus. <i>Frontiers in Pharmacology</i> , 2018 , 9, 399	5.6	23
45	Effect of intravenous administration of dipyridamole in a rat model of chronic cerebral ischemia. <i>Annals of the New York Academy of Sciences</i> , 2010 , 1207, 89-96	6.5	23
44	Choline high-affinity uptake and metabolism and choline acetyltransferase activity in the striatum of rats chronically treated with neuroleptics. <i>Journal of Neurochemistry</i> , 1980 , 35, 606-11	6	23
43	Acetylcholine input from the cerebral cortex, choline uptake and muscarinic receptors in morphine-dependent, freely-moving rats. <i>Neuropharmacology</i> , 1980 , 19, 597-605	5.5	23
42	The neuron-astrocyte-microglia triad in CA3 after chronic cerebral hypoperfusion in the rat: Protective effect of dipyridamole. <i>Experimental Gerontology</i> , 2017 , 96, 46-62	4.5	22
41	Purinergic modulation of cortical acetylcholine release is decreased in aging rats. <i>Experimental Gerontology</i> , 1988 , 23, 175-81	4.5	22
40	Adenosine A(2A) antagonism increases striatal glutamate outflow in the quinolinic acid rat model of Huntington's disease. <i>Brain Research</i> , 2003 , 979, 225-9	3.7	21
39	Time-course of protection by the selective A2A receptor antagonist SCH58261 after transient focal cerebral ischemia. <i>Neurological Sciences</i> , 2015 , 36, 1441-8	3.5	19
38	Adenosine A2A receptor-selective stimulation reduces signaling pathways involved in the development of intestine ischemia and reperfusion injury. <i>Shock</i> , 2010 , 33, 541-51	3.4	19
37	P2 receptor antagonists prevent synaptic failure and extracellular signal-regulated kinase 1/2 activation induced by oxygen and glucose deprivation in rat CA1 hippocampus in vitro. <i>European Journal of Neuroscience</i> , 2011 , 33, 2203-15	3.5	18
36	P2Y1 receptor modulation of Ca ²⁺ -activated K ⁺ currents in medium-sized neurons from neonatal rat striatal slices. <i>Journal of Neurophysiology</i> , 2012 , 107, 1009-21	3.2	18
35	Changes in hippocampal adenosine efflux, ATP levels, and synaptic transmission induced by increased temperature. <i>Synapse</i> , 2001 , 41, 58-64	2.4	18
34	Adenosine is present in rat brain synaptic vesicles. <i>NeuroReport</i> , 2013 , 24, 982-7	1.7	17
33	Relationships between neurons expressing neuronal nitric oxide synthase, degree of microglia activation and animal survival. A study in the rat cortex after transient ischemia. <i>Brain Research</i> , 2007 , 1132, 218-27	3.7	17

32	Inducible nitric oxide synthase appears and is co-expressed with the neuronal isoform in interneurons of the rat hippocampus after transient ischemia induced by middle cerebral artery occlusion. <i>Experimental Neurology</i> , 2008 , 211, 433-40	5.7	16
31	Chronic caffeine treatment reduces caffeine but not adenosine effects on cortical acetylcholine release. <i>British Journal of Pharmacology</i> , 1986 , 88, 671-6	8.6	16
30	Equilibrative nucleoside transporter ENT1 as a biomarker of Huntington disease. <i>Neurobiology of Disease</i> , 2016 , 96, 47-53	7.5	15
29	Imidazo[1,2-a]pyrazin-8-amine core for the design of new adenosine receptor antagonists: Structural exploration to target the A and A subtypes. <i>European Journal of Medicinal Chemistry</i> , 2017 , 125, 611-628	6.8	15
28	Expression of neuronal and inducible nitric oxide synthase in neuronal and glial cells after transient occlusion of the middle cerebral artery. <i>Neuroscience</i> , 2005 , 136, 1015-26	3.9	14
27	Adenosine A receptors inhibit K currents and cell differentiation in cultured oligodendrocyte precursor cells and modulate sphingosine-1-phosphate signaling pathway. <i>Biochemical Pharmacology</i> , 2020 , 177, 113956	6	12
26	The selective antagonism of P2X7 and P2Y1 receptors prevents synaptic failure and affects cell proliferation induced by oxygen and glucose deprivation in rat dentate gyrus. <i>PLoS ONE</i> , 2014 , 9, e115273	3.7	12
25	Muscarinic modulation of purine release from electrically stimulated rat cortical slices. <i>Journal of Neurochemistry</i> , 1988 , 50, 1074-9	6	12
24	Functional characterization of a novel adenosine A receptor agonist on short-term plasticity and synaptic inhibition during oxygen and glucose deprivation in the rat CA1 hippocampus. <i>Brain Research Bulletin</i> , 2019 , 151, 174-180	3.9	11
23	Cholinergic and noradrenergic denervations decrease labelled purine release from electrically stimulated rat cortical slices. <i>Neuroscience</i> , 1989 , 32, 629-36	3.9	11
22	Acute visceral pain relief mediated by A3AR agonists in rats: involvement of N-type voltage-gated calcium channels. <i>Pain</i> , 2020 , 161, 2179-2190	8	11
21	A Adenosine Receptors: When Outsiders May Become an Attractive Target to Treat Brain Ischemia or Demyelination. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
20	Changes in regional brain acetylcholine levels during drug-induced convulsions. <i>European Journal of Pharmacology</i> , 1976 , 40, 329-35	5.3	8
19	The contribution of different types of calcium channels to electrically-evoked adenosine release from rat hippocampal slices. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1997 , 355, 250-5	3.4	7
18	A Selective Histamine H Receptor Antagonist, JNJ7777120, Is Protective in a Rat Model of Transient Cerebral Ischemia. <i>Frontiers in Pharmacology</i> , 2018 , 9, 1231	5.6	6
17	The Controversial Role of Adenosine A2A Receptor Antagonists as Neuro-protective Agents. <i>Current Medicinal Chemistry - Central Nervous System Agents</i> , 2004 , 4, 35-45		5
16	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> , 2020 , 4, e100063	4.6	5
15	Protective Effect of Adenosine A Receptor Agonist, BAY60-6583, Against Transient Focal Brain Ischemia in Rat. <i>Frontiers in Pharmacology</i> , 2020 , 11, 588757	5.6	5

14	Adenosine outflow from hippocampal slices evoked by ischemic-like conditions: Effect of the excitatory amino acid antagonists. <i>Drug Development Research</i> , 1993 , 28, 395-398	5.1	4
13	Adenosine A3 Receptor Signaling in the Central Nervous System 2010 , 165-188		4
12	Uncovering the Mechanisms of Adenosine Receptor-Mediated Pain Control: Focus on the A Receptor Subtype. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
11	Protective effects of carbonic anhydrase inhibition in brain ischaemia and models. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2021 , 36, 964-976	5.6	4
10	Effect of idebenone on adenosine outflow and adenine nucleotide level in hippocampal slices under ischemia-like conditions. <i>European Journal of Pharmacology</i> , 1993 , 249, 65-70	5.3	3
9	Role of Carbonic Anhydrase in Cerebral Ischemia and Carbonic Anhydrase Inhibitors as Putative Protective Agents. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
8	New Insight into the Role of Adenosine in Demyelination, Stroke and Neuropathic Pain. <i>Frontiers in Pharmacology</i> , 2020 , 11, 625662	5.6	3
7	Principal aspects of the regulation of acetylcholine release in the brain. <i>Progress in Brain Research</i> , 1990 , 84, 273-8	2.9	2
6	Acetylcholine modulates K and Na currents in human basal forebrain cholinergic neuroblasts through an autocrine/paracrine mechanism. <i>Journal of Neurochemistry</i> , 2021 , 157, 1182-1195	6	2
5	Adenosine and Stroke 2013 , 273-306		1
4	Adenosine: A Relevant Role in Hypoxia. <i>Journal of Caffeine and Adenosine Research</i> , 2020 , 10, 2-3	1.6	
3	Adenosine and Oxygen/Glucose Deprivation in the Brain 2018 , 351-378		
2	Adenosine and Oxygen/Glucose Deprivation in the Brain 2017 , 151-173		
1	A Adenosine Receptors and Sphingosine 1-Phosphate Signaling Cross-Talk in Oligodendroglioneogenesis. <i>Frontiers in Neuroscience</i> , 2021 , 15, 677988	5.1	