

Ana Maria Sebastiao

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

206
papers

7,595
citations

50
h-index

78
g-index

218
ext. papers

8,629
ext. citations

5.5
avg, IF

6.03
L-index

#	Paper	IF	Citations
206	Caffeine and adenosine. <i>Journal of Alzheimer's Disease</i> , 2010 , 20 Suppl 1, S3-15	4.3	271
205	Fine-tuning neuromodulation by adenosine. <i>Trends in Pharmacological Sciences</i> , 2000 , 21, 341-6	13.2	215
204	Adenosine: does it have a neuroprotective role after all?. <i>Brain Research Reviews</i> , 2000 , 33, 258-74		207
203	Preferential release of ATP and its extracellular catabolism as a source of adenosine upon high- but not low-frequency stimulation of rat hippocampal slices. <i>Journal of Neurochemistry</i> , 1996 , 67, 2180-7	6	206
202	Inhibition by ATP of hippocampal synaptic transmission requires localized extracellular catabolism by ecto-nucleotidases into adenosine and channeling to adenosine A1 receptors. <i>Journal of Neuroscience</i> , 1998 , 18, 1987-95	6.6	192
201	Extracellular alpha-synuclein oligomers modulate synaptic transmission and impair LTP via NMDA-receptor activation. <i>Journal of Neuroscience</i> , 2012 , 32, 11750-62	6.6	180
200	Adenosine receptors and the central nervous system. <i>Handbook of Experimental Pharmacology</i> , 2009 , 471-534	3.2	163
199	Activation of adenosine A2A receptor facilitates brain-derived neurotrophic factor modulation of synaptic transmission in hippocampal slices. <i>Journal of Neuroscience</i> , 2004 , 24, 2905-13	6.6	146
198	Inhibition of NMDA receptor-mediated currents in isolated rat hippocampal neurones by adenosine A1 receptor activation. <i>NeuroReport</i> , 1995 , 6, 1097-100	1.7	139
197	Preferential activation of excitatory adenosine receptors at rat hippocampal and neuromuscular synapses by adenosine formed from released adenine nucleotides. <i>British Journal of Pharmacology</i> , 1996 , 119, 253-60	8.6	128
196	Modification of A1 and A2a adenosine receptor binding in aged striatum, hippocampus and cortex of the rat. <i>NeuroReport</i> , 1995 , 6, 1583-8	1.7	128
195	On the role, inactivation and origin of endogenous adenosine at the frog neuromuscular junction. <i>Journal of Physiology</i> , 1987 , 384, 571-85	3.9	122
194	Excitatory and inhibitory effects of A1 and A2A adenosine receptor activation on the electrically evoked [3H]acetylcholine release from different areas of the rat hippocampus. <i>Journal of Neurochemistry</i> , 1994 , 63, 207-14	6	121
193	Inhibitory and excitatory effects of adenosine receptor agonists on evoked transmitter release from phrenic nerve ending of the rat. <i>British Journal of Pharmacology</i> , 1991 , 103, 1614-20	8.6	115
192	Evidence for the presence of excitatory A2 adenosine receptors in the rat hippocampus. <i>Neuroscience Letters</i> , 1992 , 138, 41-4	3.3	114
191	Early changes of neuromuscular transmission in the SOD1(G93A) mice model of ALS start long before motor symptoms onset. <i>PLoS ONE</i> , 2013 , 8, e73846	3.7	108
190	Adenosine: setting the stage for plasticity. <i>Trends in Neurosciences</i> , 2013 , 36, 248-57	13.3	98

189	Enhancement of long-term potentiation by brain-derived neurotrophic factor requires adenosine A2A receptor activation by endogenous adenosine. <i>Neuropharmacology</i> , 2008 , 54, 924-33	5.5	98
188	Enhancement of LTP in aged rats is dependent on endogenous BDNF. <i>Neuropsychopharmacology</i> , 2011 , 36, 1823-36	8.7	97
187	Spintronic platforms for biomedical applications. <i>Lab on A Chip</i> , 2012 , 12, 546-57	7.2	96
186	A1R-A2AR heteromers coupled to Gs and G i/o proteins modulate GABA transport into astrocytes. <i>Purinergic Signalling</i> , 2013 , 9, 433-49	3.8	93
185	Adenosine A(2A) receptor blockade reverts hippocampal stress-induced deficits and restores corticosterone circadian oscillation. <i>Molecular Psychiatry</i> , 2013 , 18, 320-31	15.1	89
184	Enhanced adenosine A2A receptor facilitation of synaptic transmission in the hippocampus of aged rats. <i>Journal of Neurophysiology</i> , 2003 , 90, 1295-303	3.2	83
183	Tuning and fine-tuning of synapses with adenosine. <i>Current Neuropharmacology</i> , 2009 , 7, 180-94	7.6	81
182	The inhibitory adenosine receptor at the neuromuscular junction and hippocampus of the rat: antagonism by 1,3,8-substituted xanthines. <i>British Journal of Pharmacology</i> , 1990 , 101, 453-9	8.6	81
181	Lipid rafts, synaptic transmission and plasticity: impact in age-related neurodegenerative diseases. <i>Neuropharmacology</i> , 2013 , 64, 97-107	5.5	80
180	Adenosine and adenine nucleotides are independently released from both the nerve terminals and the muscle fibres upon electrical stimulation of the innervated skeletal muscle of the frog. <i>Pflugers Archiv European Journal of Physiology</i> , 1993 , 424, 503-10	4.6	80
179	Activation of synaptic NMDA receptors by action potential-dependent release of transmitter during hypoxia impairs recovery of synaptic transmission on reoxygenation. <i>Journal of Neuroscience</i> , 2001 , 21, 8564-71	6.6	79
178	Influence of age on BDNF modulation of hippocampal synaptic transmission: interplay with adenosine A2A receptors. <i>Hippocampus</i> , 2007 , 17, 577-85	3.5	76
177	Ecto-5'-nucleotidase is associated with cholinergic nerve terminals in the hippocampus but not in the cerebral cortex of the rat. <i>Journal of Neurochemistry</i> , 1992 , 59, 657-66	6	76
176	Adenosine and related drugs in brain diseases: present and future in clinical trials. <i>Current Topics in Medicinal Chemistry</i> , 2011 , 11, 1087-101	3	72
175	MicroRNA-34a Modulates Neural Stem Cell Differentiation by Regulating Expression of Synaptic and Autophagic Proteins. <i>Molecular Neurobiology</i> , 2015 , 51, 1168-83	6.2	70
174	Participation of adenosine receptors in neuroprotection. <i>Drug News and Perspectives</i> , 2003 , 16, 80-6		70
173	Adenosine A2A receptors control the extracellular levels of adenosine through modulation of nucleoside transporters activity in the rat hippocampus. <i>Journal of Neurochemistry</i> , 2005 , 93, 595-604	6	68
172	Enhancement of AMPA currents and GluR1 membrane expression through PKA-coupled adenosine A(2A) receptors. <i>Hippocampus</i> , 2012 , 22, 276-91	3.5	67

171	Adenosine A2A receptors stimulate acetylcholine release from nerve terminals of the rat hippocampus. <i>Neuroscience Letters</i> , 1995 , 196, 41-4	3.3	66
170	Modification of adenosine modulation of synaptic transmission in the hippocampus of aged rats. <i>British Journal of Pharmacology</i> , 2000 , 131, 1629-34	8.6	62
169	Dysregulation of TrkB Receptors and BDNF Function by Amyloid- β Peptide is Mediated by Calpain. <i>Cerebral Cortex</i> , 2015 , 25, 3107-21	5.1	59
168	Maternal separation impairs long term-potential in CA1-CA3 synapses and hippocampal-dependent memory in old rats. <i>Neurobiology of Aging</i> , 2014 , 35, 1680-5	5.6	59
167	Adenosine A(2A) receptor modulation of hippocampal CA3-CA1 synapse plasticity during associative learning in behaving mice. <i>Neuropsychopharmacology</i> , 2009 , 34, 1865-74	8.7	59
166	Purinergic regulation of acetylcholine release. <i>Progress in Brain Research</i> , 1996 , 109, 231-41	2.9	57
165	Impaired TrkB receptor signaling contributes to memory impairment in APP/PS1 mice. <i>Neurobiology of Aging</i> , 2012 , 33, 1122.e23-39	5.6	56
164	Purinergic modulation of the evoked release of [3H]acetylcholine from the hippocampus and cerebral cortex of the rat: role of the ectonucleotidases. <i>European Journal of Neuroscience</i> , 1994 , 6, 33-42	3.5	56
163	Triggering neurotrophic factor actions through adenosine A2A receptor activation: implications for neuroprotection. <i>British Journal of Pharmacology</i> , 2009 , 158, 15-22	8.6	55
162	Triggering of BDNF facilitatory action on neuromuscular transmission by adenosine A2A receptors. <i>Neuroscience Letters</i> , 2006 , 404, 143-7	3.3	55
161	Extracellular metabolism of adenine nucleotides and adenosine in the innervated skeletal muscle of the frog. <i>European Journal of Pharmacology</i> , 1991 , 197, 83-92	5.3	55
160	Interleukin-6 upregulates neuronal adenosine A1 receptors: implications for neuromodulation and neuroprotection. <i>Neuropsychopharmacology</i> , 2008 , 33, 2237-50	8.7	54
159	Going the Extra (Synaptic) Mile: Excitotoxicity as the Road Toward Neurodegenerative Diseases. <i>Frontiers in Cellular Neuroscience</i> , 2020 , 14, 90	6.1	52
158	Homeostatic control of synaptic activity by endogenous adenosine is mediated by adenosine kinase. <i>Cerebral Cortex</i> , 2014 , 24, 67-80	5.1	51
157	Brain-derived neurotrophic factor (BDNF) enhances GABA transport by modulating the trafficking of GABA transporter-1 (GAT-1) from the plasma membrane of rat cortical astrocytes. <i>Journal of Biological Chemistry</i> , 2011 , 286, 40464-76	5.4	51
156	Activation of type 1 cannabinoid receptor (CB1R) promotes neurogenesis in murine subventricular zone cell cultures. <i>PLoS ONE</i> , 2013 , 8, e63529	3.7	49
155	Neuritic growth impairment and cell death by unconjugated bilirubin is mediated by NO and glutamate, modulated by microglia, and prevented by glycothiols and glycothiols. <i>Neuropharmacology</i> , 2012 , 62, 2398-408	5.5	48
154	Modulation and metamodulation of synapses by adenosine. <i>Acta Physiologica</i> , 2010 , 199, 161-9	5.6	48

153	Activation of adenosine A2A receptors induces TrkB translocation and increases BDNF-mediated phospho-TrkB localization in lipid rafts: implications for neuromodulation. <i>Journal of Neuroscience</i> , 2010 , 30, 8468-80	6.6	47
152	Neuromodulation and metamodulation by adenosine: Impact and subtleties upon synaptic plasticity regulation. <i>Brain Research</i> , 2015 , 1621, 102-13	3.7	46
151	On the adenosine receptor and adenosine inactivation at the rat diaphragm neuromuscular junction. <i>British Journal of Pharmacology</i> , 1988 , 94, 109-20	8.6	44
150	Adenosine A2A receptors enhance GABA transport into nerve terminals by restraining PKC inhibition of GAT-1. <i>Journal of Neurochemistry</i> , 2009 , 109, 336-47	6	43
149	Downregulated Glia Interplay and Increased miRNA-155 as Promising Markers to Track ALS at an Early Stage. <i>Molecular Neurobiology</i> , 2018 , 55, 4207-4224	6.2	42
148	Purine nucleosides in neuroregeneration and neuroprotection. <i>Neuropharmacology</i> , 2016 , 104, 226-42	5.5	42
147	Brain-derived neurotrophic factor facilitates glutamate and inhibits GABA release from hippocampal synaptosomes through different mechanisms. <i>Brain Research</i> , 2004 , 1016, 72-8	3.7	40
146	Modulation of brain-derived neurotrophic factor (BDNF) actions in the nervous system by adenosine A(2A) receptors and the role of lipid rafts. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 1340-9	3.8	39
145	Age-related changes of glycine receptor at the rat hippocampus: from the embryo to the adult. <i>Journal of Neurochemistry</i> , 2011 , 118, 339-53	6	39
144	Postsynaptic action of brain-derived neurotrophic factor attenuates alpha7 nicotinic acetylcholine receptor-mediated responses in hippocampal interneurons. <i>Journal of Neuroscience</i> , 2008 , 28, 5611-8	6.6	39
143	On the type of receptor involved in the inhibitory action of adenosine at the neuromuscular junction. <i>British Journal of Pharmacology</i> , 1985 , 84, 911-8	8.6	39
142	Ischemia-induced synaptic plasticity drives sustained expression of calcium-permeable AMPA receptors in the hippocampus. <i>Neuropharmacology</i> , 2013 , 65, 114-22	5.5	37
141	Synaptic mechanisms of adenosine A2A receptor-mediated hyperexcitability in the hippocampus. <i>Hippocampus</i> , 2015 , 25, 566-80	3.5	37
140	Regulation of hippocampal cannabinoid CB1 receptor actions by adenosine A1 receptors and chronic caffeine administration: implications for the effects of Δ^9 -tetrahydrocannabinol on spatial memory. <i>Neuropsychopharmacology</i> , 2011 , 36, 472-87	8.7	37
139	1,3,8- and 1,3,7-substituted xanthines: relative potency as adenosine receptor antagonists at the frog neuromuscular junction. <i>British Journal of Pharmacology</i> , 1989 , 96, 211-9	8.6	36
138	Inhibition of NMDA Receptors Prevents the Loss of BDNF Function Induced by Amyloid β <i>Frontiers in Pharmacology</i> , 2018 , 9, 237	5.6	35
137	Adenosine A1 Receptor Suppresses Tonic GABAA Receptor Currents in Hippocampal Pyramidal Cells and in a Defined Subpopulation of Interneurons. <i>Cerebral Cortex</i> , 2016 , 26, 1081-95	5.1	34
136	Glial cell line-derived neurotrophic factor (GDNF) enhances dopamine release from striatal nerve endings in an adenosine A2A receptor-dependent manner. <i>Brain Research</i> , 2006 , 1113, 129-36	3.7	34

135	Tauroursodeoxycholic acid suppresses amyloid β -induced synaptic toxicity in vitro and in APP/PS1 mice. <i>Neurobiology of Aging</i> , 2013 , 34, 551-61	5.6	33
134	Regulation of TrkB receptor translocation to lipid rafts by adenosine A(2A) receptors and its functional implications for BDNF-induced regulation of synaptic plasticity. <i>Purinergic Signalling</i> , 2014 , 10, 251-67	3.8	33
133	Brain-Derived Neurotrophic Factor (BDNF) Role in Cannabinoid-Mediated Neurogenesis. <i>Frontiers in Cellular Neuroscience</i> , 2018 , 12, 441	6.1	33
132	Brain-derived neurotrophic factor inhibits GABA uptake by the rat hippocampal nerve terminals. <i>Brain Research</i> , 2008 , 1219, 19-25	3.7	32
131	Interactions between adenosine and phorbol esters or lithium at the frog neuromuscular junction. <i>British Journal of Pharmacology</i> , 1990 , 100, 55-62	8.6	32
130	Differential role of the proteasome in the early and late phases of BDNF-induced facilitation of LTP. <i>Journal of Neuroscience</i> , 2015 , 35, 3319-29	6.6	31
129	P2Y1 receptor inhibits GABA transport through a calcium signalling-dependent mechanism in rat cortical astrocytes. <i>Glia</i> , 2014 , 62, 1211-26	9	30
128	Effect of 5'-(N-ethylcarboxamido)adenosine on adenosine transport in cultured chromaffin cells. <i>Journal of Neurochemistry</i> , 1990 , 54, 1941-6	6	30
127	Enhancement of transmission at the frog neuromuscular junction by adenosine deaminase: evidence for an inhibitory role of endogenous adenosine on neuromuscular transmission. <i>Neuroscience Letters</i> , 1985 , 62, 267-70	3.3	30
126	VIP enhances both pre- and postsynaptic GABAergic transmission to hippocampal interneurons leading to increased excitatory synaptic transmission to CA1 pyramidal cells. <i>British Journal of Pharmacology</i> , 2004 , 143, 733-44	8.6	29
125	Adenosine by activating A1 receptors prevents GABA-mediated actions during hypoxia in the rat hippocampus. <i>Brain Research</i> , 1996 , 732, 261-6	3.7	29
124	Axonal elongation and dendritic branching is enhanced by adenosine A2A receptors activation in cerebral cortical neurons. <i>Brain Structure and Function</i> , 2016 , 221, 2777-99	4	28
123	BDNF, via truncated TrkB receptor, modulates GlyT1 and GlyT2 in astrocytes. <i>Glia</i> , 2015 , 63, 2181-97	9	28
122	GDNF control of the glutamatergic cortico-striatal pathway requires tonic activation of adenosine A receptors. <i>Journal of Neurochemistry</i> , 2009 , 108, 1208-19	6	28
121	Adenosine Kinase Deficiency in the Brain Results in Maladaptive Synaptic Plasticity. <i>Journal of Neuroscience</i> , 2016 , 36, 12117-12128	6.6	28
120	Dopamine-galanin receptor heteromers modulate cholinergic neurotransmission in the rat ventral hippocampus. <i>Journal of Neuroscience</i> , 2011 , 31, 7412-23	6.6	27
119	VIP enhances synaptic transmission to hippocampal CA1 pyramidal cells through activation of both VPAC1 and VPAC2 receptors. <i>Brain Research</i> , 2005 , 1049, 52-60	3.7	27
118	Adenine nucleotide analogues, including gamma-phosphate-substituted analogues, are metabolised extracellularly in innervated frog sartorius muscle. <i>European Journal of Pharmacology</i> , 1992 , 222, 49-59	5.3	27

117	Control of glutamate release by complexes of adenosine and cannabinoid receptors. <i>BMC Biology</i> , 2020 , 18, 9	7.3	26
116	Interaction between Cannabinoid Type 1 and Type 2 Receptors in the Modulation of Subventricular Zone and Dentate Gyrus Neurogenesis. <i>Frontiers in Pharmacology</i> , 2017 , 8, 516	5.6	26
115	Interleukin-6-type cytokines in neuroprotection and neuromodulation: oncostatin M, but not leukemia inhibitory factor, requires neuronal adenosine A1 receptor function. <i>Journal of Neurochemistry</i> , 2010 , 114, 1667-77	6	26
114	Glutamate Transporters in Hippocampal LTD/LTP: Not Just Prevention of Excitotoxicity. <i>Frontiers in Cellular Neuroscience</i> , 2019 , 13, 357	6.1	25
113	Impact of in vivo chronic blockade of adenosine A2A receptors on the BDNF-mediated facilitation of LTP. <i>Neuropharmacology</i> , 2014 , 83, 99-106	5.5	25
112	Cannabinoid CB(1) and adenosine A(1) receptors independently inhibit hippocampal synaptic transmission. <i>European Journal of Pharmacology</i> , 2009 , 623, 41-6	5.3	25
111	Enhancement of tetrodotoxin-induced axonal blockade by adenosine, adenosine analogues, dibutyryl cyclic AMP and methylxanthines in the frog sciatic nerve. <i>British Journal of Pharmacology</i> , 1984 , 83, 485-92	8.6	25
110	Chronic and acute adenosine A receptor blockade prevents long-term episodic memory disruption caused by acute cannabinoid CB receptor activation. <i>Neuropharmacology</i> , 2017 , 117, 316-327	5.5	24
109	GlyT1 and GlyT2 in brain astrocytes: expression, distribution and function. <i>Brain Structure and Function</i> , 2014 , 219, 817-30	4	24
108	Neuroprotection afforded by adenosine A2A receptor blockade is modulated by corticotrophin-releasing factor (CRF) in glutamate injured cortical neurons. <i>Journal of Neurochemistry</i> , 2012 , 123, 1030-40	6	24
107	An adenosine analogue inhibits NMDA receptor-mediated responses in bipolar cells of the rat retina. <i>Experimental Eye Research</i> , 1999 , 68, 367-70	3.7	24
106	Challenges and promises in the development of neurotrophic factor-based therapies for Parkinson's disease. <i>Drugs and Aging</i> , 2014 , 31, 239-61	4.7	23
105	Neural commitment of human pluripotent stem cells under defined conditions recapitulates neural development and generates patient-specific neural cells. <i>Biotechnology Journal</i> , 2015 , 10, 1578-88	5.6	23
104	Predominance of adenosine excitatory over inhibitory effects on transmission at the neuromuscular junction of infant rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010 , 332, 153-63	4.7	23
103	GAT-3 Dysfunction Generates Tonic Inhibition in External Globus Pallidus Neurons in Parkinsonian Rodents. <i>Cell Reports</i> , 2018 , 23, 1678-1690	10.6	23
102	A1 and A2A receptor activation by endogenous adenosine is required for VIP enhancement of K ⁺ -evoked [3H]-GABA release from rat hippocampal nerve terminals. <i>Neuroscience Letters</i> , 2008 , 430, 207-12	3.3	22
101	Separation of adenosine triphosphate and its degradation products in innervated muscle of the frog by reverse phase high-performance liquid chromatography. <i>Chromatographia</i> , 1989 , 28, 610-612	2.1	22
100	Depression Assessment in Clinical Trials and Pre-clinical Tests: A Critical Review. <i>Current Topics in Medicinal Chemistry</i> , 2018 , 18, 1677-1703	3	22

99	BDNF-induced presynaptic facilitation of GABAergic transmission in the hippocampus of young adults is dependent of TrkB and adenosine A2A receptors. <i>Purinergic Signalling</i> , 2016 , 12, 283-94	3.8	21
98	Adenosine A(2A) Receptors as novel upstream regulators of BDNF-mediated attenuation of hippocampal Long-Term Depression (LTD). <i>Neuropharmacology</i> , 2014 , 79, 389-98	5.5	21
97	Adenosine A2A receptors activation facilitates neuromuscular transmission in the pre-symptomatic phase of the SOD1(G93A) ALS mice, but not in the symptomatic phase. <i>PLoS ONE</i> , 2014 , 9, e104081	3.7	21
96	Adenosine A receptors facilitate synaptic NMDA currents in CA1 pyramidal neurons. <i>British Journal of Pharmacology</i> , 2018 , 175, 4386-4397	8.6	21
95	Hippocampal GABAergic transmission: a new target for adenosine control of excitability. <i>Journal of Neurochemistry</i> , 2016 , 139, 1056-1070	6	20
94	Dual Influence of Endocannabinoids on Long-Term Potentiation of Synaptic Transmission. <i>Frontiers in Pharmacology</i> , 2017 , 8, 921	5.6	19
93	Adenosine A2A receptor activation is determinant for BDNF actions upon GABA and glutamate release from rat hippocampal synaptosomes. <i>Purinergic Signalling</i> , 2015 , 11, 607-12	3.8	18
92	Adenine nucleotides as inhibitors of synaptic transmission: role of localised ectonucleotidases. <i>Progress in Brain Research</i> , 1999 , 120, 183-92	2.9	18
91	Cannabinoid Actions on Neural Stem Cells: Implications for Pathophysiology. <i>Molecules</i> , 2019 , 24,	4.8	17
90	Platinum Nanoparticle-Based Microreactors as Support for Neuroblastoma Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 7581-7592	9.5	17
89	Chronic, intermittent treatment with a cannabinoid receptor agonist impairs recognition memory and brain network functional connectivity. <i>Journal of Neurochemistry</i> , 2018 , 147, 71-83	6	17
88	Tonic adenosine A1 and A2A receptor activation is required for the excitatory action of VIP on synaptic transmission in the CA1 area of the hippocampus. <i>Neuropharmacology</i> , 2007 , 52, 313-20	5.5	17
87	In vivo Bio-Distribution and Toxicity Evaluation of Polymeric and Lipid-Based Nanoparticles: A Potential Approach for Chronic Diseases Treatment. <i>International Journal of Nanomedicine</i> , 2020 , 15, 8609-8621	7.3	17
86	Anxiety Assessment in Pre-clinical Tests and in Clinical Trials: A Critical Review. <i>Current Topics in Medicinal Chemistry</i> , 2018 , 18, 1656-1676	3	17
85	Tauroursodeoxycholic Acid Enhances Mitochondrial Biogenesis, Neural Stem Cell Pool, and Early Neurogenesis in Adult Rats. <i>Molecular Neurobiology</i> , 2018 , 55, 3725-3738	6.2	16
84	Role of Adenosine in Epilepsy and Seizures. <i>Journal of Caffeine and Adenosine Research</i> , 2020 , 10, 45-60	1.6	16
83	Homeostatic plasticity induced by brief activity deprivation enhances long-term potentiation in the mature rat hippocampus. <i>Journal of Neurophysiology</i> , 2014 , 112, 3012-22	3.2	16
82	Solubilized rat brain adenosine receptors have two high-affinity binding sites for 1,3-dipropyl-8-cyclopentylxanthine. <i>Journal of Neurochemistry</i> , 1991 , 57, 1165-71	6	16

81	Presymptomatic and symptomatic ALS SOD1(G93A) mice differ in adenosine A1 and A2A receptor-mediated tonic modulation of neuromuscular transmission. <i>Purinergic Signalling</i> , 2015 , 11, 471-80	3.8	15
80	Ex vivo model of epilepsy in organotypic slices-a new tool for drug screening. <i>Journal of Neuroinflammation</i> , 2018 , 15, 203	10.1	15
79	Modulation of subventricular zone oligodendrogenesis: a role for hemopressin?. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 59	6.1	15
78	Modulation of GABA transport by adenosine A1R-A2AR heteromers, which are coupled to both Gs- and G(i/o)-proteins. <i>Journal of Neuroscience</i> , 2011 , 31, 15629-39	6.6	15
77	Antagonism of tetrodotoxin- and procaine-induced axonal blockade by adenine nucleotides in the frog sciatic nerve. <i>British Journal of Pharmacology</i> , 1984 , 81, 277-82	8.6	15
76	Modeling Rett Syndrome With Human Patient-Specific Forebrain Organoids. <i>Frontiers in Cell and Developmental Biology</i> , 2020 , 8, 610427	5.7	15
75	Effects of carbamazepine and novel 10,11-dihydro-5H-dibenz[b,f]azepine-5-carboxamide derivatives on synaptic transmission in rat hippocampal slices. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2002 , 90, 208-13		14
74	Enhanced LTP in aged rats: Detrimental or compensatory?. <i>Neuropharmacology</i> , 2017 , 114, 12-19	5.5	13
73	Biological activities of N6,C8-disubstituted adenosine derivatives as partial agonists at rat brain adenosine A1 receptors. <i>European Journal of Pharmacology</i> , 1997 , 334, 299-307	5.3	13
72	VPAC and VPAC receptor activation on GABA release from hippocampal nerve terminals involve several different signalling pathways. <i>British Journal of Pharmacology</i> , 2017 , 174, 4725-4737	8.6	12
71	Hypoxia-ischemia alters nucleotide and nucleoside catabolism and Na ⁺ ,K ⁺ -ATPase activity in the cerebral cortex of newborn rats. <i>Neurochemical Research</i> , 2013 , 38, 886-94	4.6	12
70	Mechanisms of regulation of olfactory transduction and adaptation in the olfactory cilium. <i>PLoS ONE</i> , 2014 , 9, e105531	3.7	12
69	Nitric oxide mediates interactions between GABAA receptors and adenosine A1 receptors in the rat hippocampus. <i>European Journal of Pharmacology</i> , 2006 , 543, 32-9	5.3	12
68	Memory deficits induced by chronic cannabinoid exposure are prevented by adenosine AR receptor antagonism. <i>Neuropharmacology</i> , 2019 , 155, 10-21	5.5	11
67	Amyotrophic Lateral Sclerosis (ALS) and Adenosine Receptors. <i>Frontiers in Pharmacology</i> , 2018 , 9, 267	5.6	11
66	Adenosine A1 receptor activation inhibits basal accumulation of inositol phosphates in rat hippocampus. <i>Basic and Clinical Pharmacology and Toxicology</i> , 1998 , 82, 189-92		11
65	Brain-derived neurotrophic factor mediates neuroprotection against Aβ-induced toxicity through a mechanism independent on adenosine 2A receptor activation. <i>Growth Factors</i> , 2015 , 33, 298-308	1.6	10
64	Modeling the functional network of primary intercellular Ca ²⁺ wave propagation in astrocytes and its application to study drug effects. <i>Journal of Theoretical Biology</i> , 2014 , 356, 201-12	2.3	10

- 63 Neuromuscular transmission modulation by adenosine upon aging. *Neurobiology of Aging*, **2012**, 33, 2869-80 10
- 62 Challenges of BDNF-based therapies: From common to rare diseases. *Pharmacological Research*, **2020**, 162, 105281 10.2 9
- 61 On the Assembly of Microreactors with Parallel Enzymatic Pathways. *Advanced Biology*, **2018**, 2, e17002445 9.5 9
- 60 The combined inhibitory effect of the adenosine A1 and cannabinoid CB1 receptors on cAMP accumulation in the hippocampus is additive and independent of A1 receptor desensitization. *BioMed Research International*, **2015**, 2015, 872684 3 9
- 59 VPAC2 receptor activation mediates VIP enhancement of population spikes in the CA1 area of the hippocampus. *Annals of the New York Academy of Sciences*, **2006**, 1070, 210-4 6.5 9
- 58 Calcitonin gene-related peptide in the hamster seminal vesicle and coagulating gland: an immunohistochemical, autoradiographical, and pharmacological study. *Peptides*, **1996**, 17, 1189-95 3.8 9
- 57 Neuroinflammation after neonatal hypoxia-ischemia is associated with alterations in the purinergic system: adenosine deaminase 1 isoenzyme is the most predominant after insult. *Molecular and Cellular Biochemistry*, **2015**, 403, 169-77 4.2 8
- 56 Brain-Sparing Sympathofacilitators Mitigate Obesity without Adverse Cardiovascular Effects. *Cell Metabolism*, **2020**, 31, 1120-1135.e7 24.6 8
- 55 Pertussis toxin-sensitive G proteins mediate the inhibition of basal phosphoinositide metabolism caused by adenosine A1 receptors in rat hippocampal slices. *Neurochemical Research*, **2002**, 27, 1707-11 4.6 8
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