Rodrigo A. Cunha

List of Publications by Year
in descending order

306 papers	21,135 citations	6233 80 h-index	12910 131 g-index
311 all docs	311 docs citations	311 times ranked	13664 citing authors

#	Article	IF	Citations
1	Adenosine and Brain Function. International Review of Neurobiology, 2005, 63, 191-270.	0.9	601
2	Adenosine as a neuromodulator and as a homeostatic regulator in the nervous system: different roles, different sources and different receptors. Neurochemistry International, 2001, 38, 107-125.	1.9	554
3	Presynaptic Control of Striatal Glutamatergic Neurotransmission by Adenosine A1-A2A Receptor Heteromers. Journal of Neuroscience, 2006, 26, 2080-2087.	1.7	553
4	Neuroinflammation, Oxidative Stress and the Pathogenesis of Alzheimers Disease. Current Pharmaceutical Design, 2010, 16, 2766-2778.	0.9	547
5	Neuroprotection by adenosine in the brain: From A1 receptor activation to A2A receptor blockade. Purinergic Signalling, 2005, 1, 111-134.	1.1	456
6	Adenosine receptors and brain diseases: Neuroprotection and neurodegeneration. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 1380-1399.	1.4	361
7	How does adenosine control neuronal dysfunction and neurodegeneration?. Journal of Neurochemistry, 2016, 139, 1019-1055.	2.1	341
8	Adenosine A2A receptors and basal ganglia physiology. Progress in Neurobiology, 2007, 83, 277-292.	2.8	336
9	Adenosine A2A Receptors Are Essential for Long-Term Potentiation of NMDA-EPSCs atÂHippocampal Mossy Fiber Synapses. Neuron, 2008, 57, 121-134.	3.8	326
10	Caffeine and adenosine A2a receptor antagonists prevent Î²-amyloid (25â€“35)-induced cognitive deficits in mice. Experimental Neurology, 2007, 203, 241-245.	2.0	325
11	Adenosine A_{2A}Receptor Blockade Prevents Synaptotoxicity and Memory Dysfunction Caused by Î²-Amyloid Peptides via p38 Mitogen-Activated Protein Kinase Pathway. Journal of Neuroscience, 2009, 29, 14741-14751.	1.7	308
12	Caffeine acts through neuronal adenosine A _{2A} receptors to prevent mood and memory dysfunction triggered by chronic stress. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7833-7838.	3.3	248
13	Preferential Release of ATP and Its Extracellular Catabolism as a Source of Adenosine upon Highâ€•but Not Lowâ€Frequency Stimulation of Rat Hippocampal Slices. Journal of Neurochemistry, 1996, 67, 2180-2187.	2.1	232
14	An Update on Adenosine A2A-Dopamine D2 Receptor Interactions: Implications for the Function of G Protein-Coupled Receptors. Current Pharmaceutical Design, 2008, 14, 1468-1474.	0.9	229
15	Evidence for functionally important adenosine A2a receptors in the rat hippocampus. Brain Research, 1994, 649, 208-216.	1.1	223
16	Involvement of Cannabinoid Receptors in the Regulation of Neurotransmitter Release in the Rodent Striatum: A Combined Immunochemical and Pharmacological Analysis. Journal of Neuroscience, 2005, 25, 2874-2884.	1.7	221
17	Neuroprotection by caffeine and adenosine A2A receptor blockade of Î² -amyloid neurotoxicity. British Journal of Pharmacology, 2003, 138, 1207-1209.	2.7	219
18	Inhibition by ATP of Hippocampal Synaptic Transmission Requires Localized Extracellular Catabolism by Ecto-Nucleotidases into Adenosine and Channeling to Adenosine A₁Receptors. Journal of Neuroscience, 1998, 18, 1987-1995.	1.7	207

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19	ATP as a multi-target danger signal in the brain. Frontiers in Neuroscience, 2015, 9, 148.	1.4	205
20	Adenosine A2A receptor facilitation of hippocampal synaptic transmission is dependent on tonic A1 receptor inhibition. Neuroscience, 2002, 112, 319-329.	1.1	201
21	Dual Presynaptic Control by ATP of Glutamate Release via Facilitatory P2X1, P2X2/3, and P2X3 and Inhibitory P2Y1, P2Y2, and/or P2Y4 Receptors in the Rat Hippocampus. Journal of Neuroscience, 2005, 25, 6286-6295.	1.7	201
22	Chronic Caffeine Consumption Prevents Memory Disturbance in Different Animal Models of Memory Decline. Journal of Alzheimer's Disease, 2010, 20, S95-S116.	1.2	198
23	Anticonvulsant and Sodium Channel-Blocking Properties of Novel 10,11-Dihydro-5H-dibenz[b,f]azepine-5-carboxamide Derivatives. Journal of Medicinal Chemistry, 1999, 42, 2582-2587.	2.9	189
24	Co-localization and functional interaction between adenosine A2A and metabotropic group 5 receptors in glutamatergic nerve terminals of the rat striatum. Journal of Neurochemistry, 2005, 92, 433-441.	2.1	184
25	Early synaptic deficits in the APP/PS1 mouse model of Alzheimerâ€™s disease involve neuronal adenosine A2A receptors. Nature Communications, 2016, 7, 11915.	5.8	184
26	Adenosine A_{2A} receptors control neuroinflammation and consequent hippocampal neuronal dysfunction. Journal of Neurochemistry, 2011, 117, 100-111.	2.1	182
27	Potential Therapeutic Interest of Adenosine A2A Receptors in Psychiatric Disorders. Current Pharmaceutical Design, 2008, 14, 1512-1524.	0.9	181
28	Activation of microglial cells triggers a release of brain-derived neurotrophic factor (BDNF) inducing their proliferation in an adenosine A2A receptor-dependent manner: A2A receptor blockade prevents BDNF release and proliferation of microglia. Journal of Neuroinflammation, 2013, 10, 16.	3.1	180
29	Different synaptic and subsynaptic localization of adenosine A2A receptors in the hippocampus and striatum of the rat. Neuroscience, 2005, 132, 893-903.	1.1	179
30	Cross Talk Between A₁ and A_{2A} Adenosine Receptors in the Hippocampus and Cortex of Young Adult and Old Rats. Journal of Neurophysiology, 1999, 82, 3196-3203.	0.9	177
31	ATP as a presynaptic modulator. Life Sciences, 2000, 68, 119-137.	2.0	174
32	Evidence for high-affinity binding sites for the adenosine A2A receptor agonist [3H] CGS 21680 in the rat hippocampus and cerebral cortex that are different from striatal A2A receptors. Naunyn-Schmiedeberg's Archives of Pharmacology, 1996, 353, 261-271.	1.4	171
33	Adenosine A_{2A} receptor antagonists exert motor and neuroprotective effects by distinct cellular mechanisms. Annals of Neurology, 2008, 63, 338-346.	2.8	159
34	A Critical Role of the Adenosine A_{2A}Receptor in Extrastriatal Neurons in Modulating Psychomotor Activity as Revealed by Opposite Phenotypes of Striatum and Forebrain A_{2A}Receptor Knock-Outs. Journal of Neuroscience, 2008, 28, 2970-2975.	1.7	152
35	Subcellular localization of adenosine A1 receptors in nerve terminals and synapses of the rat hippocampus. Brain Research, 2003, 987, 49-58.	1.1	149
36	Enhanced role of adenosine A2A receptors in the modulation of LTP in the rat hippocampus upon ageing. European Journal of Neuroscience, 2011, 34, 12-21.	1.2	149

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37	Adenosine Receptor Antagonists Including Caffeine Alter Fetal Brain Development in Mice. Science Translational Medicine, 2013, 5, 197ra104.	5.8	148
38	Preferential activation of excitatory adenosine receptors at rat hippocampal and neuromuscular synapses by adenosine formed from released adenine nucleotides. British Journal of Pharmacology, 1996, 119, 253-260.	2.7	147
39	Ecto-5'-Nucleotidase (CD73)-Mediated Formation of Adenosine Is Critical for the Striatal Adenosine A2A Receptor Functions. Journal of Neuroscience, 2013, 33, 11390-11399.	1.7	146
40	Different cellular sources and different roles of adenosine: A1 receptor-mediated inhibition through astrocytic-driven volume transmission and synapse-restricted A2A receptor-mediated facilitation of plasticity. Neurochemistry International, 2008, 52, 65-72.	1.9	145
41	Modification of A-i and A2a adenosine receptor binding in aged striatum, hippocampus and cortex of the rat. NeuroReport, 1995, 6, 1583.	0.6	141
42	Excitatory and Inhibitory Effects of A₁ and A_{2A} Adenosine Receptor Activation on the Electrically Evoked [³H]Acetylcholine Release from Different Areas of the Rat Hippocampus. Journal of Neurochemistry, 1994, 63, 207-214.	2.1	141
43	The belated US FDA approval of the adenosine A2A receptor antagonist istradefylline for treatment of Parkinsonâ€™s disease. Purinergic Signalling, 2020, 16, 167-174.	1.1	139
44	Adenosine A_{2A} receptors modulate glutamate uptake in cultured astrocytes and gliosomes. Glia, 2012, 60, 702-716.	2.5	136
45	Deletion of Adenosine A2A Receptors From Astrocytes Disrupts Glutamate Homeostasis Leading to Psychomotor and Cognitive Impairment: Relevance to Schizophrenia. Biological Psychiatry, 2015, 78, 763-774.	0.7	135
46	Depression as a Glial-Based Synaptic Dysfunction. Frontiers in Cellular Neuroscience, 2015, 9, 521.	1.8	134
47	Caffeine consumption attenuates neurochemical modifications in the hippocampus of streptozotocinâ€induced diabetic rats. Journal of Neurochemistry, 2009, 111, 368-379.	2.1	133
48	Age-related shift in LTD is dependent on neuronal adenosine A2A receptors interplay with mGluR5 and NMDA receptors. Molecular Psychiatry, 2020, 25, 1876-1900.	4.1	129
49	Purinergic modulation of [3H]GABA release from rat hippocampal nerve terminals. Neuropharmacology, 2000, 39, 1156-1167.	2.0	126
50	Caffeine Consumption Prevents Memory Impairment, Neuronal Damage, and Adenosine A2A Receptors Upregulation in the Hippocampus of a Rat Model of Sporadic Dementia. Journal of Alzheimer's Disease, 2013, 34, 509-518.	1.2	124
51	Caffeine Consumption Prevents Diabetes-Induced Memory Impairment and Synaptotoxicity in the Hippocampus of NONcZNO10/LTJ Mice. PLoS ONE, 2012, 7, e21899.	1.1	119
52	Optogenetic activation of intracellular adenosine A2A receptor signaling in the hippocampus is sufficient to trigger CREB phosphorylation and impair memory. Molecular Psychiatry, 2015, 20, 1339-1349.	4.1	118
53	Modification upon aging of the density of presynaptic modulation systems in the hippocampus. Neurobiology of Aging, 2009, 30, 1877-1884.	1.5	117
54	Pharmacology of Adenosine A2A Receptors and Therapeutic Applications. Current Topics in Medicinal Chemistry, 2003, 3, 413-426.	1.0	115

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55	Caffeine and an adenosine A_{2A} receptor antagonist prevent memory impairment and synaptotoxicity in adult rats triggered by a convulsive episode in early life. Journal of Neurochemistry, 2010, 112, 453-462.	2.1	115
56	Adenosine A2A receptors and metabotropic glutamate 5 receptors are co-localized and functionally interact in the hippocampus: a possible key mechanism in the modulation of N-methyl-d-aspartate effects. Journal of Neurochemistry, 2005, 95, 1188-1200.	2.1	112
57	Adenosine A1 and A2A receptors are co-expressed in pyramidal neurons and co-localized in glutamatergic nerve terminals of the rat hippocampus. Neuroscience, 2005, 133, 79-83.	1.1	111
58	Decrease of adenosine A1 receptor density and of adenosine neuromodulation in the hippocampus of kindled rats. European Journal of Neuroscience, 2003, 18, 820-828.	1.2	108
59	Astrocytic Adenosine A2A Receptors Control the Amyloid-Î² Peptide-Induced Decrease of Glutamate Uptake. Journal of Alzheimer's Disease, 2012, 31, 555-567.	1.2	108
60	Antagonistic Interaction between Adenosine A_{2A}Receptors and Na⁺/K⁺-ATPase-Î±₂Controlling Glutamate Uptake in Astrocytes. Journal of Neuroscience, 2013, 33, 18492-18502.	1.7	105
61	Differential glutamate-dependent and glutamate-independent adenosine A1receptor-mediated modulation of dopamine release in different striatal compartments. Journal of Neurochemistry, 2007, 101, 355-363.	2.1	104
62	The P2X7 receptor antagonist Brilliant Blue G attenuates contralateral rotations in a rat model of Parkinsonism through a combined control of synaptotoxicity, neurotoxicity and gliosis. Neuropharmacology, 2014, 81, 142-152.	2.0	104
63	Caffeine, Adenosine Receptors, and Synaptic Plasticity. Journal of Alzheimer's Disease, 2010, 20, S25-S34.	1.2	101
64	Enhanced Adenosine A2A Receptor Facilitation of Synaptic Transmission in the Hippocampus of Aged Rats. Journal of Neurophysiology, 2003, 90, 1295-1303.	0.9	97
65	Adenosine A2A receptor blockade prevents memory dysfunction caused by Î²-amyloid peptides but not by scopolamine or MK-801. Experimental Neurology, 2008, 210, 776-781.	2.0	97
66	Regulation of the ecto-nucleotidase pathway in rat hippocampal nerve terminals. , 2001, 26, 979-991.		96
67	Increased density and synapto-protective effect of adenosine A2A receptors upon sub-chronic restraint stress. Neuroscience, 2006, 141, 1775-1781.	1.1	96
68	Interaction of the Novel Anticonvulsant, BIA 2-093, with Voltage-Gated Sodium Channels: Comparison with Carbamazepine. Epilepsia, 2001, 42, 600-608.	2.6	95
69	Behavioral Phenotyping of Parkin-Deficient Mice: Looking for Early Preclinical Features of Parkinson's Disease. PLoS ONE, 2014, 9, e114216.	1.1	94
70	Increase in the Number, G Protein Coupling, and Efficiency of Facilitatory Adenosine A2A Receptors in the Limbic Cortex, but not Striatum, of Aged Rats. Journal of Neurochemistry, 2002, 73, 1733-1738.	2.1	92
71	Caffeine regulates frontocorticostriatal dopamine transporter density and improves attention and cognitive deficits in an animal model of attention deficit hyperactivity disorder. European Neuropsychopharmacology, 2013, 23, 317-328.	0.3	92
72	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. Pflugers Archiv European Journal of Physiology, 1993, 424, 503-510.	1.3	89

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73	Adenosine Receptor Heteromers and their Integrative Role in Striatal Function. Scientific World Journal, The, 2007, 7, 74-85.	0.8	89
74	Heterodimeric adenosine receptors: a device to regulate neurotransmitter release. Cellular and Molecular Life Sciences, 2006, 63, 2427-2431.	2.4	88
75	Long-term Effect of Convulsive Behavior on the Density of Adenosine A1 and A2A Receptors in the Rat Cerebral Cortex. Epilepsia, 2005, 46, 159-165.	2.6	87
76	Regulation of Fear Responses by Striatal and Extrastriatal Adenosine A2A Receptors in Forebrain. Biological Psychiatry, 2014, 75, 855-863.	0.7	87
77	Key Modulatory Role of Presynaptic Adenosine A_{2A}Receptors in Cortical Neurotransmission to the Striatal Direct Pathway. Scientific World Journal, The, 2009, 9, 1321-1344.	0.8	86
78	Binding of the prototypical adenosine A2A receptor agonist CGS 21680 to the cerebral cortex of adenosine A1 and A2A receptor knockout mice. British Journal of Pharmacology, 2004, 141, 1006-1014.	2.7	85
79	Modification of adenosine modulation of synaptic transmission in the hippocampus of aged rats. British Journal of Pharmacology, 2000, 131, 1629-1634.	2.7	83
80	Inactivation of adenosine A2A receptors reverses working memory deficits at early stages of Huntington's disease models. Neurobiology of Disease, 2015, 79, 70-80.	2.1	83
81	Ecto-5'-Nucleotidase Is Associated with Cholinergic Nerve Terminals in the Hippocampus but Not in the Cerebral Cortex of the Rat. Journal of Neurochemistry, 1992, 59, 657-666.	2.1	82
82	Spatial memory impairments in a prediabetic rat model. Neuroscience, 2013, 250, 565-577.	1.1	80
83	Adenosine A 2A receptors control the extracellular levels of adenosine through modulation of nucleoside transporters activity in the rat hippocampus. Journal of Neurochemistry, 2005, 93, 595-604.	2.1	79
84	CB1 Receptor Antagonism Increases Hippocampal Acetylcholine Release: Site and Mechanism of Action. Molecular Pharmacology, 2006, 70, 1236-1245.	1.0	78
85	Adenosine <scp>A</scp>₂<scp>_A</scp> receptors are necessary and sufficient to trigger memory impairment in adult mice. British Journal of Pharmacology, 2015, 172, 3831-3845.	2.7	78
86	Caffeine and adenosine A_{2A} receptor inactivation decrease striatal neuropathology in a lentiviralâ€based model of Machadoâ€“Joseph disease. Annals of Neurology, 2013, 73, 655-666.	2.8	77
87	Predominant loss of glutamatergic terminal markers in a Î²-amyloid peptide model of Alzheimer's disease. Neuropharmacology, 2014, 76, 51-56.	2.0	77
88	Synaptic and memory dysfunction in a Î²-amyloid model of early Alzheimer's disease depends on increased formation of ATP-derived extracellular adenosine. Neurobiology of Disease, 2019, 132, 104570.	2.1	77
89	Overexpression of Adenosine A2A Receptors in Rats: Effects on Depression, Locomotion, and Anxiety. Frontiers in Psychiatry, 2014, 5, 67.	1.3	76
90	ZM241385 is an antagonist of the facilitatory responses produced by the A2A adenosine receptor agonists CGS21680 and HENECA in the rat hippocampus. British Journal of Pharmacology, 1997, 122, 1279-1284.	2.7	75

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91	Adenosine A2A Receptors in the Amygdala Control Synaptic Plasticity and Contextual Fear Memory. Neuropsychopharmacology, 2016, 41, 2862-2871.	2.8	75
92	Adenosine A2A receptors stimulate acetylcholine release from nerve terminals of the rat hippocampus. Neuroscience Letters, 1995, 196, 41-44.	1.0	74
93	Selective A2A receptor antagonist prevents microglia-mediated neuroinflammation and protects retinal ganglion cells from high intraocular pressureâ€“induced transient ischemic injury. Translational Research, 2016, 169, 112-128.	2.2	74
94	Blockade of adenosine A2A receptors recovers early deficits of memory and plasticity in the triple transgenic mouse model of Alzheimer's disease. Neurobiology of Disease, 2018, 117, 72-81.	2.1	74
95	Adenosine A2AR blockade prevents neuroinflammation-induced death of retinal ganglion cells caused by elevated pressure. Journal of Neuroinflammation, 2015, 12, 115.	3.1	73
96	The physiological effects of caffeine on synaptic transmission and plasticity in the mouse hippocampus selectively depend on adenosine A1 and A2A receptors. Biochemical Pharmacology, 2019, 166, 313-321.	2.0	72
97	Adenosine A3 receptors are located in neurons of the rat hippocampus. NeuroReport, 2003, 14, 1645-1648.	0.6	71
98	Adenosine A2A receptor regulation of microglia morphological remodeling-gender bias in physiology and in a model of chronic anxiety. Molecular Psychiatry, 2017, 22, 1035-1043.	4.1	69
99	Parallel modification of adenosine extracellular metabolism and modulatory action in the hippocampus of aged rats. Journal of Neurochemistry, 2001, 76, 372-382.	2.1	68
100	International Union of Basic and Clinical Pharmacology. CXII: Adenosine Receptors: A Further Update. Pharmacological Reviews, 2022, 74, 340-372.	7.1	67
101	Chapter 23 Purinergic regulation of acetylcholine release. Progress in Brain Research, 1996, 109, 231-241.	0.9	66
102	Role of Microglia Adenosine A2AReceptors in Retinal and Brain Neurodegenerative Diseases. Mediators of Inflammation, 2014, 2014, 1-13.	1.4	66
103	Adenosine A_{2A}Receptors Modulate Î±-Synuclein Aggregation and Toxicity. Cerebral Cortex, 2017, 27, bhv268.	1.6	66
104	Hypoxia-induced desensitization and internalization of adenosine A1 receptors in the rat hippocampus. Neuroscience, 2006, 138, 1195-1203.	1.1	65
105	Cannabinoids inhibit the synaptic uptake of adenosine and dopamine in the rat and mouse striatum. European Journal of Pharmacology, 2011, 655, 38-45.	1.7	64
106	Localization and Trafficking of Amyloid-Î² Protein Precursor and Secretases: Impact on Alzheimer's Disease. Journal of Alzheimer's Disease, 2015, 45, 329-347.	1.2	64
107	Adenosine A2A Receptors in Striatal Glutamatergic Terminals and GABAergic Neurons Oppositely Modulate Psychostimulant Action and DARPP-32 Phosphorylation. PLoS ONE, 2013, 8, e80902.	1.1	64
108	Extracellular metabolism of adenine nucleotides and adenosine in the innervated skeletal muscle of the frog. European Journal of Pharmacology, 1991, 197, 83-92.	1.7	61

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109	Purinergic Modulation of the Evoked Release of [3H]Acetylcholine from the Hippocampus and Cerebral Cortex of the Rat: Role of the Ectonucleotidases. European Journal of Neuroscience, 1994, 6, 33-42.	1.2	61
110	Modification of adenosine A1 and A2A receptor density in the hippocampus of streptozotocin-induced diabetic rats. Neurochemistry International, 2006, 48, 144-150.	1.9	60
111	Pre-synaptic adenosine A2A receptors control cannabinoid CB1 receptor-mediated inhibition of striatal glutamatergic neurotransmission. Journal of Neurochemistry, 2011, 116, 273-280.	2.1	59
112	Inhibition of [3H]Î³-aminobutyric acid release by kainate receptor activation in rat hippocampal synaptosomes. European Journal of Pharmacology, 1997, 323, 167-172.	1.7	58
113	Glutamate-induced and NMDA receptor-mediated neurodegeneration entails P2Y1 receptor activation. Cell Death and Disease, 2018, 9, 297.	2.7	58
114	Neuronal Adenosine A2A Receptors Are Critical Mediators of Neurodegeneration Triggered by Convulsions. ENeuro, 2018, 5, ENEURO.0385-18.2018.	0.9	58
115	Caffeine triggers behavioral and neurochemical alterations in adolescent rats. Neuroscience, 2014, 270, 27-39.	1.1	57
116	Pre-synaptic glycine GlyT1 transporter - NMDA receptor interaction: relevance to NMDA autoreceptor activation in the presence of Mg2+ ions. Journal of Neurochemistry, 2011, 117, 516-527.	2.1	56
117	Caffeine Reverts Memory But Not Mood Impairment in a Depression-Prone Mouse Strain with Up-Regulated Adenosine A2A Receptor in Hippocampal Glutamate Synapses. Molecular Neurobiology, 2017, 54, 1552-1563.	1.9	55
118	Ectoâ€AMP Deaminase Blunts the ATPâ€Derived Adenosine A 2A Receptor Facilitation of Acetylcholine Release at Rat Motor Nerve Endings. Journal of Physiology, 2003, 549, 399-408.	1.3	54
119	Modification of adenosine modulation of acetylcholine release in the hippocampus of aged rats. Neurobiology of Aging, 2008, 29, 1597-1601.	1.5	54
120	Pertussis toxin prevents presynaptic inhibition by kainate receptors of rat hippocampal [3 H]GABA release. FEBS Letters, 2000, 469, 159-162.	1.3	53
121	Purinergic P2 receptors trigger adenosine release leading to adenosine A2A receptor activation and facilitation of long-term potentiation in rat hippocampal slices. Neuroscience, 2003, 122, 111-121.	1.1	53
122	Treatment with A2A receptor antagonist KW6002 and caffeine intake regulate microglia reactivity and protect retina against transient ischemic damage. Cell Death and Disease, 2017, 8, e3065-e3065.	2.7	53
123	G Protein coupling of CGS 21680 binding sites in the rat hippocampus and cortex is different from that of adenosine A1 and striatal A2A receptors. Naunyn-Schmiedeberg's Archives of Pharmacology, 1999, 359, 295-302.	1.4	52
124	Facilitation by arachidonic acid of acetylcholine release from the rat hippocampus. Brain Research, 1999, 826, 104-111.	1.1	51
125	Blockade of adenosine A2A receptors prevents staurosporine-induced apoptosis of rat hippocampal neurons. Neurobiology of Disease, 2007, 27, 182-189.	2.1	51
126	Control of glutamate release by complexes of adenosine and cannabinoid receptors. BMC Biology, 2020, 18, 9.	1.7	51

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127	Central Ghrelin Resistance Permits the Overconsolidation of Fear Memory. Biological Psychiatry, 2017, 81, 1003-1013.	0.7	49
128	Purinergic signaling orchestrating neuron-glia communication. Pharmacological Research, 2020, 162, 105253.	3.1	49
129	Spermine improves recognition memory deficit in a rodent model of Huntingtonâ€™s disease. Neurobiology of Learning and Memory, 2009, 92, 574-580.	1.0	48
130	Blockade of adenosine A2A receptors prevents interleukin-1Î²-induced exacerbation of neuronal toxicity through a p38 mitogen-activated protein kinase pathway. Journal of Neuroinflammation, 2012, 9, 204.	3.1	48
131	The role of parkinson's diseaseâ€associated receptor <scp>GPR</scp>37 in the hippocampus: functional interplay with the adenosinergic system. Journal of Neurochemistry, 2015, 134, 135-146.	2.1	48
132	Antimicrobial peptide-gold nanoscale therapeutic formulation with high skin regenerative potential. Journal of Controlled Release, 2017, 262, 58-71.	4.8	48
133	Adenosine A2A receptor facilitation of synaptic transmission in the CA1 area of the rat hippocampus requires protein kinase C but not protein kinase A activation. Neuroscience Letters, 2000, 289, 127-130.	1.0	47
134	Acyl ghrelin improves cognition, synaptic plasticity deficits and neuroinflammation following amyloid Î² (AÎ²1â€40) administration in mice. Journal of Neuroendocrinology, 2017, 29, .	1.2	47
135	Adenosine A2A receptors facilitate 45Ca2+ uptake through class A calcium channels in rat hippocampal CA3 but not CA1 synaptosomes. Neuroscience Letters, 1997, 238, 73-77.	1.0	46
136	Modification of purinergic signaling in the hippocampus of streptozotocin-induced diabetic rats. Neuroscience, 2007, 149, 382-391.	1.1	46
137	ROLE OF ADENOSINE IN THE CONTROL OF HOMOSYNAPTIC PLASTICITY IN STRIATAL EXCITATORY SYNAPSES. Journal of Integrative Neuroscience, 2005, 04, 445-464.	0.8	45
138	Presynaptic adenosine <scp>A_{2A}</scp> receptors dampen cannabinoid <scp>CB</scp>₁ receptorâ€mediated inhibition of corticostriatal glutamatergic transmission. British Journal of Pharmacology, 2015, 172, 1074-1086.	2.7	45
139	Kainate Receptors Coupled to G_i/G_oProteins in the Rat Hippocampus. Molecular Pharmacology, 1999, 56, 429-433.	1.0	44
140	Diabetes differentially affects the content of exocytotic proteins in hippocampal and retinal nerve terminals. Neuroscience, 2010, 169, 1589-1600.	1.1	44
141	Anandamide Effects in a Streptozotocin-Induced Alzheimerâ€™s Disease-Like Sporadic Dementia in Rats. Frontiers in Neuroscience, 2018, 12, 653.	1.4	44
142	Convergence of adenosine and GABA signaling for synapse stabilization during development. Science, 2021, 374, eabk2055.	6.0	44
143	Presynaptic modulation controlling neuronal excitability and epileptogenesis: role of kainate, adenosine and neuropeptide Y receptors. Neurochemical Research, 2003, 28, 1501-1515.	1.6	43
144	Adenosine promotes neuronal recovery from reactive oxygen species induced lesion in rat hippocampal slices. Neuroscience Letters, 2003, 339, 127-130.	1.0	43

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145	Adenosine A_{2b} receptors control A₁ receptorâ€mediated inhibition of synaptic transmission in the mouse hippocampus. European Journal of Neuroscience, 2015, 41, 878-888.	1.2	43
146	Stimulation of brain glucose uptake by cannabinoid CB2 receptors and its therapeutic potential in Alzheimer's disease. Neuropharmacology, 2016, 110, 519-529.	2.0	43
147	Different danger signals differently impact on microglial proliferation through alterations of ATP release and extracellular metabolism. Glia, 2015, 63, 1636-1645.	2.5	42
148	Enhanced ATP release and CD73â€mediated adenosine formation sustain adenosine A_{2A} receptor overâ€activation in a rat model of Parkinson's disease. British Journal of Pharmacology, 2019, 176, 3666-3680.	2.7	42
149	ATP is released from nerve terminals and from activated muscle fibres on stimulation of the rat phrenic nerve. Neuroscience Letters, 2003, 338, 225-228.	1.0	41
150	Different roles of adenosine A1, A2A and A3 receptors in controlling kainate-induced toxicity in cortical cultured neurons. Neurochemistry International, 2005, 47, 317-325.	1.9	40
151	Hyperactivation of D1 and A2A receptors contributes to cognitive dysfunction in Huntington's disease. Neurobiology of Disease, 2015, 74, 41-57.	2.1	40
152	Impact of Caffeine Consumption on Type 2 Diabetes-Induced Spatial Memory Impairment and Neurochemical Alterations in the Hippocampus. Frontiers in Neuroscience, 2018, 12, 1015.	1.4	40
153	A functionally active presynaptic high-affinity kainate receptor in the rat hippocampal CA3 subregion. Neuroscience Letters, 1995, 185, 83-86.	1.0	39
154	Facilitation by P2 receptor activation of acetylcholine release from rat motor nerve terminals: interaction with presynaptic nicotinic receptors. Brain Research, 2000, 877, 245-250.	1.1	39
155	Immunologically Distinct Isoforms of Ecto-5â€²-Nucleotidase in Nerve Terminals of Different Areas of the Rat Hippocampus. Journal of Neurochemistry, 2001, 74, 334-338.	2.1	39
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