

# Paula M Canas

## List of Publications by Citations

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59  
papers

2,604  
citations

28  
h-index

50  
g-index

64  
ext. papers

3,174  
ext. citations

6.1  
avg, IF

4.68  
L-index

#	Paper	IF	Citations
59	Adenosine A2A receptor blockade prevents synaptotoxicity and memory dysfunction caused by beta-amyloid peptides via p38 mitogen-activated protein kinase pathway. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 14741-51	6.6	251
58	Caffeine acts through neuronal adenosine A2A receptors to prevent mood and memory dysfunction triggered by chronic stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 7833-8	11.5	181
57	Different synaptic and subsynaptic localization of adenosine A2A receptors in the hippocampus and striatum of the rat. <i>Neuroscience</i> , <b>2005</b> , 132, 893-903	3.9	151
56	Adenosine A2A receptors control neuroinflammation and consequent hippocampal neuronal dysfunction. <i>Journal of Neurochemistry</i> , <b>2011</b> , 117, 100-11	6	138
55	Adenosine A2A receptor antagonists exert motor and neuroprotective effects by distinct cellular mechanisms. <i>Annals of Neurology</i> , <b>2008</b> , 63, 338-46	9.4	135
54	A critical role of the adenosine A2A receptor in extrastriatal neurons in modulating psychomotor activity as revealed by opposite phenotypes of striatum and forebrain A2A receptor knock-outs. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 2970-5	6.6	128
53	Enhanced role of adenosine A(2A) receptors in the modulation of LTP in the rat hippocampus upon ageing. <i>European Journal of Neuroscience</i> , <b>2011</b> , 34, 12-21	3.5	113
52	Depression as a Glial-Based Synaptic Dysfunction. <i>Frontiers in Cellular Neuroscience</i> , <b>2015</b> , 9, 521	6.1	111
51	Modification upon aging of the density of presynaptic modulation systems in the hippocampus. <i>Neurobiology of Aging</i> , <b>2009</b> , 30, 1877-84	5.6	97
50	Increased density and synapto-protective effect of adenosine A2A receptors upon sub-chronic restraint stress. <i>Neuroscience</i> , <b>2006</b> , 141, 1775-81	3.9	84
49	Adenosine A2A receptor blockade prevents memory dysfunction caused by beta-amyloid peptides but not by scopolamine or MK-801. <i>Experimental Neurology</i> , <b>2008</b> , 210, 776-81	5.7	77
48	Key modulatory role of presynaptic adenosine A2A receptors in cortical neurotransmission to the striatal direct pathway. <i>Scientific World Journal, The</i> , <b>2009</b> , 9, 1321-44	2.2	76
47	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. <i>Neuropharmacology</i> , <b>2014</b> , 81, 142-52	5.5	74
46	Optogenetic activation of intracellular adenosine A2A receptor signaling in the hippocampus is sufficient to trigger CREB phosphorylation and impair memory. <i>Molecular Psychiatry</i> , <b>2015</b> , 20, 1339-49	15.1	71
45	Age-related shift in LTD is dependent on neuronal adenosine A receptors interplay with mGluR5 and NMDA receptors. <i>Molecular Psychiatry</i> , <b>2020</b> , 25, 1876-1900	15.1	71
44	Predominant loss of glutamatergic terminal markers in a B-amyloid peptide model of Alzheimer's disease. <i>Neuropharmacology</i> , <b>2014</b> , 76 Pt A, 51-6	5.5	64
43	Overexpression of Adenosine A2A Receptors in Rats: Effects on Depression, Locomotion, and Anxiety. <i>Frontiers in Psychiatry</i> , <b>2014</b> , 5, 67	5	55

42	Adenosine A <sub>2A</sub> receptors in striatal glutamatergic terminals and GABAergic neurons oppositely modulate psychostimulant action and DARPP-32 phosphorylation. <i>PLoS ONE</i> , <b>2013</b> , 8, e80902	3.7	53
41	Modification of adenosine modulation of acetylcholine release in the hippocampus of aged rats. <i>Neurobiology of Aging</i> , <b>2008</b> , 29, 1597-601	5.6	49
40	Blockade of adenosine A <sub>2A</sub> receptors prevents interleukin-1 $\beta$ -induced exacerbation of neuronal toxicity through a p38 mitogen-activated protein kinase pathway. <i>Journal of Neuroinflammation</i> , <b>2012</b> , 9, 204	10.1	44
39	Blockade of adenosine A <sub>2A</sub> receptors prevents staurosporine-induced apoptosis of rat hippocampal neurons. <i>Neurobiology of Disease</i> , <b>2007</b> , 27, 182-9	7.5	43
38	Neuronal Adenosine A <sub>2A</sub> Receptors Are Critical Mediators of Neurodegeneration Triggered by Convulsions. <i>ENeuro</i> , <b>2018</b> , 5,	3.9	43
37	Spermine improves recognition memory deficit in a rodent model of Huntington's disease. <i>Neurobiology of Learning and Memory</i> , <b>2009</b> , 92, 574-80	3.1	39
36	Blockade of adenosine A receptors recovers early deficits of memory and plasticity in the triple transgenic mouse model of Alzheimer's disease. <i>Neurobiology of Disease</i> , <b>2018</b> , 117, 72-81	7.5	38
35	Synaptic and memory dysfunction in a $\beta$ -amyloid model of early Alzheimer's disease depends on increased formation of ATP-derived extracellular adenosine. <i>Neurobiology of Disease</i> , <b>2019</b> , 132, 104570	7.5	37
34	Adenosine A <sub>2b</sub> receptors control A <sub>1</sub> receptor-mediated inhibition of synaptic transmission in the mouse hippocampus. <i>European Journal of Neuroscience</i> , <b>2015</b> , 41, 878-88	3.5	34
33	Hyperactivation of D1 and A <sub>2A</sub> receptors contributes to cognitive dysfunction in Huntington's disease. <i>Neurobiology of Disease</i> , <b>2015</b> , 74, 41-57	7.5	34
32	The role of parkinson's disease-associated receptor GPR37 in the hippocampus: functional interplay with the adenosinergic system. <i>Journal of Neurochemistry</i> , <b>2015</b> , 134, 135-46	6	30
31	GDNF control of the glutamatergic cortico-striatal pathway requires tonic activation of adenosine A receptors. <i>Journal of Neurochemistry</i> , <b>2009</b> , 108, 1208-19	6	28
30	The interplay between redox signalling and proteostasis in neurodegeneration: In vivo effects of a mitochondria-targeted antioxidant in Huntington's disease mice. <i>Free Radical Biology and Medicine</i> , <b>2020</b> , 146, 372-382	7.8	26
29	Enhanced ATP release and CD73-mediated adenosine formation sustain adenosine A receptor over-activation in a rat model of Parkinson's disease. <i>British Journal of Pharmacology</i> , <b>2019</b> , 176, 3666-3680	8.6	23
28	The exercise sex gap and the impact of the estrous cycle on exercise performance in mice. <i>Scientific Reports</i> , <b>2018</b> , 8, 10742	4.9	22
27	Purinergic signaling orchestrating neuron-glia communication. <i>Pharmacological Research</i> , <b>2020</b> , 162, 105253	10.2	20
26	Anandamide Effects in a Streptozotocin-Induced Alzheimer's Disease-Like Sporadic Dementia in Rats. <i>Frontiers in Neuroscience</i> , <b>2018</b> , 12, 653	5.1	17
25	Adenosine A Receptors Control Glutamatergic Synaptic Plasticity in Fast Spiking Interneurons of the Prefrontal Cortex. <i>Frontiers in Pharmacology</i> , <b>2018</b> , 9, 133	5.6	16

24	Caffeine Controls Glutamatergic Synaptic Transmission and Pyramidal Neuron Excitability in Human Neocortex. <i>Frontiers in Pharmacology</i> , <b>2017</b> , 8, 899	5.6	12
23	Mitochondria in Excitatory and Inhibitory Synapses have Similar Susceptibility to Amyloid- $\beta$ Peptides Modeling Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , <b>2017</b> , 60, 525-536	4.3	11
22	Neuronal adenosine A receptors signal ergogenic effects of caffeine. <i>Scientific Reports</i> , <b>2020</b> , 10, 13414	4.9	11
21	Microglia cytoarchitecture in the brain of adenosine A receptor knockout mice: Brain region and sex specificities. <i>European Journal of Neuroscience</i> , <b>2020</b> , 51, 1377-1387	3.5	10
20	Adenosine A and A receptors differently control synaptic plasticity in the mouse dorsal and ventral hippocampus. <i>Journal of Neurochemistry</i> , <b>2019</b> , 151, 227-237	6	9
19	Adenosine A receptors format long-term depression and memory strategies in a mouse model of Angelman syndrome. <i>Neurobiology of Disease</i> , <b>2020</b> , 146, 105137	7.5	8
18	Age-Related Changes in the Synaptic Density of Amyloid- $\beta$ Protein Precursor and Secretases in the Human Cerebral Cortex. <i>Journal of Alzheimer's Disease</i> , <b>2016</b> , 52, 1209-14	4.3	6
17	Presymptomatic MPTP Mice Show Neurotrophic S100B/mRAGE Striatal Levels. <i>CNS Neuroscience and Therapeutics</i> , <b>2016</b> , 22, 396-403	6.8	6
16	Caffeine Consumption plus Physical Exercise Improves Behavioral Impairments and Stimulates Neuroplasticity in Spontaneously Hypertensive Rats (SHR): an Animal Model of Attention Deficit Hyperactivity Disorder. <i>Molecular Neurobiology</i> , <b>2020</b> , 57, 3902-3919	6.2	5
15	Convergence of adenosine and GABA signaling for synapse stabilization during development. <i>Science</i> , <b>2021</b> , 374, eabk2055	33.3	5
14	Motor Deficits Coupled to Cerebellar and Striatal Alterations in Ube3a Mice Modelling Angelman Syndrome Are Attenuated by Adenosine A Receptor Blockade. <i>Molecular Neurobiology</i> , <b>2021</b> , 58, 2543-2557	6.2	4
13	Adenosine Receptors in Alzheimer's Disease <b>2018</b> , 259-280		3
12	Subsynaptic Membrane Fractionation. <i>Neuromethods</i> , <b>2016</b> , 31-37	0.4	3
11	Use of knockout mice to explore CNS effects of adenosine. <i>Biochemical Pharmacology</i> , <b>2021</b> , 187, 114367		3
10	Association Between Adenosine A Receptors and Connexin 43 Regulates Hemichannels Activity and ATP Release in Astrocytes Exposed to Amyloid- $\beta$ Peptides. <i>Molecular Neurobiology</i> , <b>2021</b> , 58, 6232-6248	6.2	3
9	Adenosine A Receptors as Biomarkers of Brain Diseases. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 702581	5.1	2
8	Brain Membrane Fractionation: An Ex Vivo Approach to Assess Subsynaptic Protein Localization. <i>Journal of Visualized Experiments</i> , <b>2017</b> ,	1.6	1
7	M16 D1R and A2AR Blockade Normalises PKA Activity and Improves Hippocampal-dependent Cognitive Dysfunction but not Motor Deficits in Huntington's Disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , <b>2014</b> , 85, A99-A100	5.5	1

6	Neuronal adenosine A2A receptors signal ergogenic effects of caffeine		1
5	Deletion of CD73 increases exercise power in mice. <i>Purinergic Signalling</i> , <b>2021</b> , 17, 393-397	3.8	1
4	Increased ATP release and CD73-mediated adenosine A receptor activation mediate convulsion-associated neuronal damage and hippocampal dysfunction. <i>Neurobiology of Disease</i> , <b>2021</b> , 157, 105441	7.5	1
3	L-Ethionine causes astrocyte pathology with negative impact on mouse hippocampal synaptic plasticity and memory. <i>FASEB Journal</i> , <b>2021</b> , 35, e21726	0.9	0
2	Adenosine A receptors blockade attenuates dexamethasone-induced alterations in cultured astrocytes.. <i>Purinergic Signalling</i> , <b>2022</b> , 18, 199-204	3.8	0
1	Subsynaptic Membrane Fractionation. <i>Neuromethods</i> , <b>2021</b> , 31-38	0.4	