

# Diogo O Souza

## List of Publications by Citations

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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.

468 papers	14,754 citations	60 h-index	91 g-index
476 ext. papers	16,138 ext. citations	4.2 avg, IF	6.13 L-index

#	Paper	IF	Citations
468	Caffeine and adenosine A(2a) receptor antagonists prevent beta-amyloid (25-35)-induced cognitive deficits in mice. <i>Experimental Neurology</i> , <b>2007</b> , 203, 241-5	5.7	260
467	Oxidative stress parameters in unmedicated and treated bipolar subjects during initial manic episode: a possible role for lithium antioxidant effects. <i>Neuroscience Letters</i> , <b>2007</b> , 421, 33-6	3.3	246
466	Quinolinic acid stimulates synaptosomal glutamate release and inhibits glutamate uptake into astrocytes. <i>Neurochemistry International</i> , <b>2002</b> , 40, 621-7	4.4	218
465	Involvement of glutamate and reactive oxygen species in methylmercury neurotoxicity. <i>Brazilian Journal of Medical and Biological Research</i> , <b>2007</b> , 40, 285-91	2.8	214
464	Decreased plasma brain derived neurotrophic factor levels in unmedicated bipolar patients during manic episode. <i>Biological Psychiatry</i> , <b>2007</b> , 61, 142-4	7.9	177
463	Agrp neurons mediate Sirt1 $\beta$ action on the melanocortin system and energy balance: roles for Sirt1 in neuronal firing and synaptic plasticity. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 11815-25	6.6	173
462	Prenatal methylmercury exposure hampers glutathione antioxidant system ontogenesis and causes long-lasting oxidative stress in the mouse brain. <i>Toxicology and Applied Pharmacology</i> , <b>2008</b> , 227, 147-54	4.6	168
461	Riluzole enhances glutamate uptake in rat astrocyte cultures. <i>Cellular and Molecular Neurobiology</i> , <b>2004</b> , 24, 123-8	4.6	167
460	Effects of Linalool on glutamatergic system in the rat cerebral cortex. <i>Neurochemical Research</i> , <b>1995</b> , 20, 461-5	4.6	162
459	Anticonvulsant properties of linalool in glutamate-related seizure models. <i>Phytomedicine</i> , <b>1999</b> , 6, 107-18	5	152
458	Methylmercury induces oxidative injury, alterations in permeability and glutamine transport in cultured astrocytes. <i>Brain Research</i> , <b>2007</b> , 1131, 1-10	3.7	148
457	Guanosine and GMP prevent seizures induced by quinolinic acid in mice. <i>Brain Research</i> , <b>2000</b> , 864, 40-3	3.7	144
456	Neuron-specific enolase, S100B, and glial fibrillary acidic protein levels as outcome predictors in patients with severe traumatic brain injury. <i>Neurosurgery</i> , <b>2011</b> , 68, 1624-30; discussion 1630-1	3.2	132
455	Reduced serum BDNF levels in schizophrenic patients on clozapine or typical antipsychotics. <i>Journal of Psychiatric Research</i> , <b>2007</b> , 41, 31-5	5.2	130
454	Highly palatable diet consumption increases protein oxidation in rat frontal cortex and anxiety-like behavior. <i>Life Sciences</i> , <b>2007</b> , 81, 198-203	6.8	124
453	Serum levels of S100B and NSE proteins in Alzheimer $\beta$ disease patients. <i>Journal of Neuroinflammation</i> , <b>2010</b> , 7, 6	10.1	123
452	Neuropsychiatric evaluation in subjects chronically exposed to organophosphate pesticides. <i>Toxicological Sciences</i> , <b>2003</b> , 72, 267-71	4.4	122

451	Increased serum S100B protein in schizophrenia: a study in medication-free patients. <i>Journal of Psychiatric Research</i> , <b>2001</b> , 35, 11-4	5.2	120
450	Differences in spatio-temporal behavior of zebrafish in the open tank paradigm after a short-period confinement into dark and bright environments. <i>PLoS ONE</i> , <b>2011</b> , 6, e19397	3.7	117
449	AgRP neurons regulate development of dopamine neuronal plasticity and nonfood-associated behaviors. <i>Nature Neuroscience</i> , <b>2012</b> , 15, 1108-10	25.5	114
448	Proposal of a guanine-based purinergic system in the mammalian central nervous system <b>2007</b> , 116, 401-16		114
447	Behavioral effects of taurine pretreatment in zebrafish acutely exposed to ethanol. <i>Neuropharmacology</i> , <b>2012</b> , 63, 613-23	5.5	111
446	Lithium increases plasma brain-derived neurotrophic factor in acute bipolar mania: a preliminary 4-week study. <i>Neuroscience Letters</i> , <b>2011</b> , 494, 54-6	3.3	109
445	The Serum S100B Concentration Is Age Dependent. <i>Clinical Chemistry</i> , <b>2002</b> , 48, 950-952	5.5	109
444	Effect of treatment with mercury chloride and lead acetate during the second stage of rapid postnatal brain growth on delta-aminolevulinic acid dehydratase (ALA-D) activity in brain, liver, kidney and blood of suckling rats. <i>Toxicology</i> , <b>1995</b> , 100, 27-37	4.4	108
443	Effect of perinatal lead exposure on rat behaviour in open-field and two-way avoidance tasks. <i>Basic and Clinical Pharmacology and Toxicology</i> , <b>1996</b> , 79, 150-6		106
442	Diphenyl diselenide and diphenyl ditelluride affect the rat glutamatergic system in vitro and in vivo. <i>Brain Research</i> , <b>2001</b> , 906, 157-63	3.7	105
441	Resveratrol protects C6 astrocyte cell line against hydrogen peroxide-induced oxidative stress through heme oxygenase 1. <i>PLoS ONE</i> , <b>2013</b> , 8, e64372	3.7	94
440	Ebselen prevents excitotoxicity provoked by glutamate in rat cerebellar granule neurons. <i>Neuroscience Letters</i> , <b>2001</b> , 299, 217-20	3.3	94
439	Caffeine consumption prevents memory impairment, neuronal damage, and adenosine A2A receptors upregulation in the hippocampus of a rat model of sporadic dementia. <i>Journal of Alzheimer's Disease</i> , <b>2013</b> , 34, 509-18	4.3	92
438	A double-blind, randomized, placebo-controlled 4-week study on the efficacy and safety of the purinergic agents allopurinol and dipyridamole adjunctive to lithium in acute bipolar mania. <i>Journal of Clinical Psychiatry</i> , <b>2008</b> , 69, 1237-45	4.6	92
437	Caffeine and an adenosine A(2A) receptor antagonist prevent memory impairment and synaptotoxicity in adult rats triggered by a convulsive episode in early life. <i>Journal of Neurochemistry</i> , <b>2010</b> , 112, 453-62	6	91
436	Beta-endorphin causes retrograde amnesia and is released from the rat brain by various forms of training and stimulation. <i>Psychopharmacology</i> , <b>1980</b> , 70, 173-7	4.7	91
435	Taurine prevents enhancement of acetylcholinesterase activity induced by acute ethanol exposure and decreases the level of markers of oxidative stress in zebrafish brain. <i>Neuroscience</i> , <b>2010</b> , 171, 683-92	3.9	87
434	Effect of orally administered guanosine on seizures and death induced by glutamatergic agents. <i>Brain Research</i> , <b>2001</b> , 912, 176-80	3.7	86

433	Chronically administered guanosine is anticonvulsant, amnesic and anxiolytic in mice. <i>Brain Research</i> , <b>2003</b> , 977, 97-102	3.7	85
432	Activation of glutamate uptake by guanosine in primary astrocyte cultures. <i>NeuroReport</i> , <b>2001</b> , 12, 879-81	3.7	83
431	Caffeine improves adult mice performance in the object recognition task and increases BDNF and TrkB independent on phospho-CREB immunocontent in the hippocampus. <i>Neurochemistry International</i> , <b>2008</b> , 53, 89-94	4.4	82
430	Caffeine prevents age-associated recognition memory decline and changes brain-derived neurotrophic factor and tirosine kinase receptor (TrkB) content in mice. <i>Neuroscience</i> , <b>2008</b> , 153, 1071-83	3.9	82
429	Quinolinic acid inhibits glutamate uptake into synaptic vesicles from rat brain. <i>NeuroReport</i> , <b>2000</b> , 11, 249-53	1.7	81
428	Resveratrol increases antioxidant defenses and decreases proinflammatory cytokines in hippocampal astrocyte cultures from newborn, adult and aged Wistar rats. <i>Toxicology in Vitro</i> , <b>2014</b> , 28, 479-84	3.6	80
427	Morphological changes in hippocampal astrocytes induced by environmental enrichment in mice. <i>Brain Research</i> , <b>2009</b> , 1274, 47-54	3.7	80
426	Diphenyl diselenide protects rat hippocampal slices submitted to oxygen-glucose deprivation and diminishes inducible nitric oxide synthase immunocontent. <i>Brain Research</i> , <b>2003</b> , 986, 196-9	3.7	80
425	Effects of linalool on glutamate release and uptake in mouse cortical synaptosomes. <i>Neurochemical Research</i> , <b>2001</b> , 26, 191-4	4.6	80
424	Schizophrenia: a purinergic hypothesis. <i>Medical Hypotheses</i> , <b>2000</b> , 54, 157-66	3.8	80
423	Caffeine prevents disruption of memory consolidation in the inhibitory avoidance and novel object recognition tasks by scopolamine in adult mice. <i>Behavioural Brain Research</i> , <b>2010</b> , 214, 254-9	3.4	76
422	Methylmercury increases glutamate release from brain synaptosomes and glutamate uptake by cortical slices from suckling rat pups: modulatory effect of ebselen. <i>Toxicological Sciences</i> , <b>2003</b> , 73, 135-40	4.0	75
421	Ebselen protects against methylmercury-induced inhibition of glutamate uptake by cortical slices from adult mice. <i>Toxicology Letters</i> , <b>2003</b> , 144, 351-7	4.4	75
420	Two-dimensional polyacrylamide gel electrophoresis of bovine seminal plasma proteins and their relation with semen freezability. <i>Theriogenology</i> , <b>2004</b> , 61, 255-66	2.8	75
419	Hippocampal Astrocyte Cultures from Adult and Aged Rats Reproduce Changes in Glial Functionality Observed in the Aging Brain. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 2969-2985	6.2	72
418	Maternal milk as methylmercury source for suckling mice: neurotoxic effects involved with the cerebellar glutamatergic system. <i>Toxicological Sciences</i> , <b>2004</b> , 81, 172-8	4.4	72
417	Astroglial and cognitive effects of chronic cerebral hypoperfusion in the rat. <i>Brain Research</i> , <b>2009</b> , 1251, 204-12	3.7	71
416	Mitochondrial permeability transition in neuronal damage promoted by Ca <sup>2+</sup> and respiratory chain complex II inhibition. <i>Journal of Neurochemistry</i> , <b>2004</b> , 90, 1025-35	6	71

415	Extracellular conversion of guanine-based purines to guanosine specifically enhances astrocyte glutamate uptake. <i>Brain Research</i> , <b>2003</b> , 972, 84-9	3.7	71
414	Increase in serum S100B protein level after a swimming race. <i>Applied Physiology, Nutrition, and Metabolism</i> , <b>2003</b> , 28, 710-6		65
413	Effect of various behavioral training and testing procedures on brain beta-endorphin-like immunoreactivity and the possible role of beta-endorphin in behavioral regulation. <i>Psychoneuroendocrinology</i> , <b>1984</b> , 9, 381-9	5	65
412	Exercise affects glutamate receptors in postsynaptic densities from cortical mice brain. <i>Brain Research</i> , <b>2005</b> , 1065, 20-5	3.7	64
411	Purinergic dysfunction in mania: an integrative model. <i>Medical Hypotheses</i> , <b>2002</b> , 58, 297-304	3.8	63
410	Effects of guanine nucleotides on kainic acid binding and on adenylate cyclase in chick optic tectum and cerebellum. <i>Journal of Molecular Neuroscience</i> , <b>1991</b> , 3, 39-45	3.3	61
409	Profile of nonprotein thiols, lipid peroxidation and delta-aminolevulinate dehydratase activity in mouse kidney and liver in response to acute exposure to mercuric chloride and sodium selenite. <i>Toxicology</i> , <b>2003</b> , 184, 179-87	4.4	60
408	Characterization of adult rat astrocyte cultures. <i>PLoS ONE</i> , <b>2013</b> , 8, e60282	3.7	59
407	Anti-nociceptive properties of the xanthine oxidase inhibitor allopurinol in mice: role of A1 adenosine receptors. <i>British Journal of Pharmacology</i> , <b>2009</b> , 156, 163-72	8.6	58
406	Resveratrol prevents ammonia toxicity in astroglial cells. <i>PLoS ONE</i> , <b>2012</b> , 7, e52164	3.7	58
405	Ontogenetic profile of glutamate uptake in brain structures slices from rats: sensitivity to guanosine. <i>Mechanisms of Ageing and Development</i> , <b>2004</b> , 125, 475-81	5.6	57
404	Repeated restraint stress alters hippocampal glutamate uptake and release in the rat. <i>Neurochemical Research</i> , <b>2004</b> , 29, 1703-9	4.6	57
403	Inhibition of glutamate uptake into synaptic vesicles of rat brain by the metabolites accumulating in maple syrup urine disease. <i>Journal of the Neurological Sciences</i> , <b>2000</b> , 181, 44-9	3.2	57
402	The role of opioid peptides in memory and learning. <i>Behavioural Brain Research</i> , <b>1980</b> , 1, 451-68	3.4	57
401	Oxidative stress mediated by NMDA, AMPA/KA channels in acute hippocampal slices: neuroprotective effect of resveratrol. <i>Toxicology in Vitro</i> , <b>2014</b> , 28, 544-51	3.6	55
400	Interleukin-6 serum levels in patients with Parkinson's disease. <i>Neurochemical Research</i> , <b>2009</b> , 34, 1401-4.6	4.6	55
399	Guanosine and synthetic organoselenium compounds modulate methylmercury-induced oxidative stress in rat brain cortical slices: involvement of oxidative stress and glutamatergic system. <i>Toxicology in Vitro</i> , <b>2009</b> , 23, 302-7	3.6	55
398	Anticonvulsant effect of GMP depends on its conversion to guanosine. <i>Brain Research</i> , <b>2004</b> , 1005, 182-6.7	3.7	55

397	Glutamate uptake in cultured astrocytes depends on age: a study about the effect of guanosine and the sensitivity to oxidative stress induced by H <sub>2</sub> O <sub>2</sub> . <i>Mechanisms of Ageing and Development</i> , <b>2002</b> , 123, 1333-40	5.6	55
396	Exposure to ebselen changes glutamate uptake and release by rat brain synaptosomes. <i>Neurochemical Research</i> , <b>2002</b> , 27, 283-8	4.6	55
395	Motor impairment induced by oral exposure to methylmercury in adult mice. <i>Environmental Toxicology and Pharmacology</i> , <b>2005</b> , 19, 169-75	5.8	54
394	Probucol, a lipid-lowering drug, prevents cognitive and hippocampal synaptic impairments induced by amyloid $\beta$ peptide in mice. <i>Experimental Neurology</i> , <b>2012</b> , 233, 767-75	5.7	53
393	Exercise increases insulin signaling in the hippocampus: physiological effects and pharmacological impact of intracerebroventricular insulin administration in mice. <i>Hippocampus</i> , <b>2011</b> , 21, 1082-92	3.5	53
392	Structure-activity relationship of flavonoids derived from medicinal plants in preventing methylmercury-induced mitochondrial dysfunction. <i>Environmental Toxicology and Pharmacology</i> , <b>2010</b> , 30, 272-278	5.8	53
391	Additive pro-oxidative effects of methylmercury and ebselen in liver from suckling rat pups. <i>Toxicology Letters</i> , <b>2004</b> , 146, 227-35	4.4	53
390	NTPDase family in zebrafish: Nucleotide hydrolysis, molecular identification and gene expression profiles in brain, liver and heart. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2010</b> , 155, 230-40	2.3	52
389	Increased uric acid levels in drug-naïve subjects with bipolar disorder during a first manic episode. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , <b>2010</b> , 34, 819-21	5.5	52
388	Glutamate uptake is stimulated by extracellular S100B in hippocampal astrocytes. <i>Cellular and Molecular Neurobiology</i> , <b>2006</b> , 26, 81-6	4.6	52
387	A randomized, phase 2 clinical trial of lithium carbonate in Machado-Joseph disease. <i>Movement Disorders</i> , <b>2014</b> , 29, 568-73	7	51
386	Enriched environment effects on behavior, memory and BDNF in low and high exploratory mice. <i>Physiology and Behavior</i> , <b>2011</b> , 102, 475-80	3.5	51
385	Elevated serum S100B protein in drug-free bipolar patients during first manic episode: a pilot study. <i>European Neuropsychopharmacology</i> , <b>2002</b> , 12, 269-72	1.2	51
384	Inhibition of synaptosomal [3H]glutamate uptake and [3H]glutamate binding to plasma membranes from brain of young rats by glutaric acid in vitro. <i>Journal of the Neurological Sciences</i> , <b>2000</b> , 173, 93-6	3.2	50
383	S100B and NSE serum levels in patients with Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , <b>2005</b> , 11, 39-43	3.6	49
382	Quinolinic acid promotes seizures and decreases glutamate uptake in young rats: reversal by orally administered guanosine. <i>Brain Research</i> , <b>2004</b> , 1018, 48-54	3.7	49
381	Protective effects of guanosine against sepsis-induced damage in rat brain and cognitive impairment. <i>Brain, Behavior, and Immunity</i> , <b>2012</b> , 26, 904-10	16.6	48
380	GMP protects against quinolinic acid-induced loss of NADPH-diaphorase-positive cells in the rat striatum. <i>Neuroscience Letters</i> , <b>1997</b> , 225, 145-8	3.3	48

379	Metallothioneins: mercury species-specific induction and their potential role in attenuating neurotoxicity. <i>Experimental Biology and Medicine</i> , <b>2006</b> , 231, 1468-73	3.7	48
378	Intrahippocampal spermidine administration improves inhibitory avoidance performance in rats. <i>Behavioural Pharmacology</i> , <b>2000</b> , 11, 57-61	2.4	48
377	Guanosine inhibits LPS-induced pro-inflammatory response and oxidative stress in hippocampal astrocytes through the heme oxygenase-1 pathway. <i>Purinergic Signalling</i> , <b>2015</b> , 11, 571-80	3.8	47
376	Guanine nucleotides inhibit the stimulation of GFAP phosphorylation by glutamate. <i>NeuroReport</i> , <b>1995</b> , 6, 249-52	1.7	47
375	Guanosine protects C6 astroglial cells against azide-induced oxidative damage: a putative role of heme oxygenase 1. <i>Journal of Neurochemistry</i> , <b>2014</b> , 130, 61-74	6	46
374	Omega-3 fatty acids deprivation affects ontogeny of glutamatergic synapses in rats: relevance for behavior alterations. <i>Neurochemistry International</i> , <b>2010</b> , 56, 753-9	4.4	46
373	Mechanisms of the inhibitory effects of selenium and mercury on the activity of delta-aminolevulinate dehydratase from mouse liver, kidney and brain. <i>Toxicology Letters</i> , <b>2003</b> , 139, 55-66	4.4	46
372	Ebselen protects glutamate uptake inhibition caused by methyl mercury but does not by Hg2+. <i>Toxicology</i> , <b>2005</b> , 214, 57-66	4.4	46
371	Duration of environmental enrichment influences the magnitude and persistence of its behavioral effects on mice. <i>Physiology and Behavior</i> , <b>2008</b> , 93, 388-94	3.5	45
370	In vivo quinolinic acid increases synaptosomal glutamate release in rats: reversal by guanosine. <i>Neurochemical Research</i> , <b>2005</b> , 30, 439-44	4.6	45
369	Decreased S100-beta protein in schizophrenia: preliminary evidence. <i>Schizophrenia Research</i> , <b>2000</b> , 43, 91-5	3.6	45
368	Guanosine Anxiolytic-Like Effect Involves Adenosinergic and Glutamatergic Neurotransmitter Systems. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 423-436	6.2	44
367	Diphenyl diselenide exerts anxiolytic-like effect in Wistar rats: putative roles of GABAA and 5HT receptors. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , <b>2008</b> , 32, 1508-15	5.5	43
366	Hypoxic-ischemic insult decreases glutamate uptake by hippocampal slices from neonatal rats: prevention by guanosine. <i>Experimental Neurology</i> , <b>2005</b> , 195, 400-6	5.7	43
365	Intrahippocampal infusion of the bombesin/gastrin-releasing peptide antagonist RC-3095 impairs inhibitory avoidance retention. <i>Peptides</i> , <b>2003</b> , 24, 1069-74	3.8	42
364	Evidence that 3-hydroxyglutaric acid interacts with NMDA receptors in synaptic plasma membranes from cerebral cortex of young rats. <i>Neurochemistry International</i> , <b>2004</b> , 45, 1087-94	4.4	42
363	Effects of chronic administered guanosine on behavioral parameters and brain glutamate uptake in rats. <i>Journal of Neuroscience Research</i> , <b>2005</b> , 79, 248-53	4.4	42
362	Ovotoxicants 4-vinylcyclohexene 1,2-monoepoxide and 4-vinylcyclohexene diepoxide disrupt redox status and modify different electrophile sensitive target enzymes and genes in <i>Drosophila melanogaster</i> . <i>Redox Biology</i> , <b>2015</b> , 5, 328-339	11.3	41



361	Postnatal methylmercury exposure induces hyperlocomotor activity and cerebellar oxidative stress in mice: dependence on the neurodevelopmental period. <i>Neurochemical Research</i> , <b>2006</b> , 31, 563-9	4.6	41
360	Neuroprotective effect of ebselen on rat hippocampal slices submitted to oxygen-glucose deprivation: correlation with immuncontent of inducible nitric oxide synthase. <i>Neuroscience Letters</i> , <b>2003</b> , 346, 101-4	3.3	41
359	Allopurinol augmentation for poorly responsive schizophrenia. <i>International Clinical Psychopharmacology</i> , <b>2001</b> , 16, 235-7	2.2	40
358	Expression and functional analysis of Na(+)-dependent glutamate transporters from zebrafish brain. <i>Brain Research Bulletin</i> , <b>2010</b> , 81, 517-23	3.9	39
357	Modulation of glutamatergic and GABAergic neurotransmission in glutaryl-CoA dehydrogenase deficiency. <i>Journal of Inherited Metabolic Disease</i> , <b>2004</b> , 27, 825-8	5.4	39
356	Effects of undernutrition on glutamatergic parameters in rat brain. <i>Neurochemical Research</i> , <b>2003</b> , 28, 1181-6	4.6	38
355	Effect of protein malnutrition on redox state of the hippocampus of rat. <i>Brain Research</i> , <b>2005</b> , 1042, 17-22	3.7	38
354	Intracerebroventricular guanine-based purines protect against seizures induced by quinolinic acid in mice. <i>Neurochemical Research</i> , <b>2005</b> , 30, 69-73	4.6	38
353	Differential effects of guanine nucleotides on kainic acid binding and on adenylate cyclase activity in chick optic tectum. <i>FEBS Letters</i> , <b>1994</b> , 355, 205-8	3.8	38
352	Cannabinoid receptor agonists reduce the short-term mitochondrial dysfunction and oxidative stress linked to excitotoxicity in the rat brain. <i>Neuroscience</i> , <b>2015</b> , 285, 97-106	3.9	37
351	Guanosine Protects Against Cortical Focal Ischemia. Involvement of Inflammatory Response. <i>Molecular Neurobiology</i> , <b>2015</b> , 52, 1791-1803	6.2	36
350	Ω-Polyunsaturated fatty acids prevent lipoperoxidation, modulate antioxidant enzymes, and reduce lipid content but do not alter glycogen metabolism in the livers of diabetic rats fed on a high fat thermolyzed diet. <i>Molecular and Cellular Biochemistry</i> , <b>2012</b> , 361, 151-60	4.2	36
349	Effects of depressive-like behavior of rats on brain glutamate uptake. <i>Neurochemical Research</i> , <b>2010</b> , 35, 1164-71	4.6	36
348	Neuroprotective effect of GMP in hippocampal slices submitted to an in vitro model of ischemia. <i>Cellular and Molecular Neurobiology</i> , <b>2002</b> , 22, 335-44	4.6	36
347	Neurotoxicity induced by glutamate in glucose-deprived rat hippocampal slices is prevented by GMP. <i>Neurochemical Research</i> , <b>2005</b> , 30, 83-9	4.6	36
346	Therapeutic efficacy of allopurinol in mania associated with hyperuricemia. <i>Journal of Clinical Psychopharmacology</i> , <b>2001</b> , 21, 621-2	1.7	36
345	Systemic Inflammation as a Driver of Brain Injury: the Astrocyte as an Emerging Player. <i>Molecular Neurobiology</i> , <b>2018</b> , 55, 2685-2695	6.2	35
344	A novel multi-target ligand (JM-20) protects mitochondrial integrity, inhibits brain excitatory amino acid release and reduces cerebral ischemia injury in vitro and in vivo. <i>Neuropharmacology</i> , <b>2014</b> , 85, 517-27	5.5	35



343	The potential therapeutic effect of guanosine after cortical focal ischemia in rats. <i>PLoS ONE</i> , <b>2014</b> , 9, e90693	3.7	35
342	Biochemical and behavioral deficits in the lobster cockroach <i>Nauphoeta cinerea</i> model of methylmercury exposure. <i>Toxicology Research</i> , <b>2015</b> , 4, 442-451	2.6	34
341	S100B protein and neuron-specific enolase as predictors of cognitive dysfunction after coronary artery bypass graft surgery: A prospective observational study. <i>European Journal of Anaesthesiology</i> , <b>2016</b> , 33, 681-9	2.3	34
340	The NMDA antagonist MK-801 induces hyperalgesia and increases CSF excitatory amino acids in rats: reversal by guanosine. <i>Pharmacology Biochemistry and Behavior</i> , <b>2009</b> , 91, 549-53	3.9	34
339	The ischemic rat heart releases S100B. <i>Life Sciences</i> , <b>2005</b> , 77, 882-9	6.8	34
338	l-bogaine attenuation of morphine withdrawal in mice: role of glutamate N-methyl-D-aspartate receptors. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , <b>2003</b> , 27, 781-5	5.5	34
337	Guanosine impairs inhibitory avoidance performance in rats. <i>NeuroReport</i> , <b>2000</b> , 11, 2537-40	1.7	34
336	Chronic caffeine prevents changes in inhibitory avoidance memory and hippocampal BDNF immunocontent in middle-aged rats. <i>Neuropharmacology</i> , <b>2013</b> , 64, 153-9	5.5	33
335	Acute and chronic electroconvulsive shock in rats: effects on peripheral markers of neuronal injury and glial activity. <i>Life Sciences</i> , <b>2006</b> , 78, 3013-7	6.8	33
334	A simple webcam-based approach for the measurement of rodent locomotion and other behavioural parameters. <i>Journal of Neuroscience Methods</i> , <b>2006</b> , 157, 91-7	3	33
333	Effects of 5-aminolevulinic acid on the glutamatergic neurotransmission. <i>Neurochemistry International</i> , <b>2003</b> , 42, 115-21	4.4	33
332	Glutaric acid stimulates glutamate binding and astrocytic uptake and inhibits vesicular glutamate uptake in forebrain from young rats. <i>Neurochemistry International</i> , <b>2004</b> , 45, 1075-86	4.4	33
331	Neuroprotective effects of guanosine administration on behavioral, brain activity, neurochemical and redox parameters in a rat model of chronic hepatic encephalopathy. <i>Metabolic Brain Disease</i> , <b>2014</b> , 29, 645-54	3.9	32
330	Mechanisms involved in the antinociception induced by systemic administration of guanosine in mice. <i>British Journal of Pharmacology</i> , <b>2010</b> , 159, 1247-63	8.6	32
329	Effects of early-life LiCl-pilocarpine-induced status epilepticus on memory and anxiety in adult rats are associated with mossy fiber sprouting and elevated CSF S100B protein. <i>Epilepsia</i> , <b>2008</b> , 49, 842-52	6.4	32
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327	Inhibition of adenylate cyclase activity by 5-aminolevulinic acid in rat and human brain. <i>Neurochemistry International</i> , <b>2001</b> , 38, 213-8	4.4	32
326	Brain-derived neurotrophic factor in post-partum depressive mothers. <i>Neurochemical Research</i> , <b>2012</b> , 37, 583-7	4.6	31

325	Peripheral Oxidative Stress Biomarkers in Spinocerebellar Ataxia Type 3/Machado-Joseph Disease. <i>Frontiers in Neurology</i> , <b>2017</b> , 8, 485	4.1	31
324	RC-3095, a bombesin/gastrin-releasing peptide receptor antagonist, impairs aversive but not recognition memory in rats. <i>European Journal of Pharmacology</i> , <b>2004</b> , 486, 35-41	5.3	31
323	The serum S100B concentration is age dependent. <i>Clinical Chemistry</i> , <b>2002</b> , 48, 950-2	5.5	31
322	Selenium compounds prevent amyloid $\beta$ -peptide neurotoxicity in rat primary hippocampal neurons. <i>Neurochemical Research</i> , <b>2013</b> , 38, 2359-63	4.6	30
321	Guanosine Prevents Anhedonic-Like Behavior and Impairment in Hippocampal Glutamate Transport Following Amyloid- $\beta$ Administration in Mice. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 5482-5496	6.2	30
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319	S100B and NSE serum levels in obstructive sleep apnea syndrome. <i>Sleep Medicine</i> , <b>2006</b> , 7, 431-5	4.6	30
318	Oral administration of guanosine impairs inhibitory avoidance performance in rats and mice. <i>Neurobiology of Learning and Memory</i> , <b>2004</b> , 81, 137-43	3.1	30
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316	Effects of Single Low Dose of Dexamethasone before Noncardiac and Nonneurologic Surgery and General Anesthesia on Postoperative Cognitive Dysfunction-A Phase III Double Blind, Randomized Clinical Trial. <i>PLoS ONE</i> , <b>2016</b> , 11, e0152308	3.7	30
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313	Brain-derived neurotrophic factor levels in women with postpartum affective disorder and suicidality. <i>Neurochemical Research</i> , <b>2012</b> , 37, 2229-34	4.6	29
312	Dietary omega-3 fatty acids attenuate cellular damage after a hippocampal ischemic insult in adult rats. <i>Journal of Nutritional Biochemistry</i> , <b>2010</b> , 21, 351-6	6.3	29
311	Interaction between metals and chelating agents affects glutamate binding on brain synaptic membranes. <i>Neurochemical Research</i> , <b>2003</b> , 28, 1859-65	4.6	29
310	Increased cerebrospinal fluid levels of S100B protein in rat model of mania induced by ouabain. <i>Life Sciences</i> , <b>2004</b> , 76, 805-11	6.8	29
309	Gliopreventive effects of guanosine against glucose deprivation in vitro. <i>Purinergic Signalling</i> , <b>2013</b> , 9, 643-54	3.8	28
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302	Disruption of brain redox homeostasis in glutaryl-CoA dehydrogenase deficient mice treated with high dietary lysine supplementation. <i>Molecular Genetics and Metabolism</i> , <b>2013</b> , 108, 30-9	3.7	27
301	Trichilia catigua (Catuaba) bark extract exerts neuroprotection against oxidative stress induced by different neurotoxic agents in rat hippocampal slices. <i>Industrial Crops and Products</i> , <b>2013</b> , 50, 625-632	5.9	27
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299	Effects of chronic guanosine treatment on hippocampal damage and cognitive impairment of rats submitted to chronic cerebral hypoperfusion. <i>Neurological Sciences</i> , <b>2012</b> , 33, 985-97	3.5	27
298	Induction of oxidative stress in brain of glutaryl-CoA dehydrogenase deficient mice by acute lysine administration. <i>Molecular Genetics and Metabolism</i> , <b>2012</b> , 106, 31-8	3.7	27
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