

# Diogo O Souza

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4465031/publications.pdf>

Version: 2024-02-01

473  
papers

17,584  
citations

15495

65  
h-index

33869

99  
g-index

476  
all docs

476  
docs citations

476  
times ranked

16598  
citing authors

#	ARTICLE	IF	CITATIONS
1	Caffeine and adenosine A2a receptor antagonists prevent $\beta$ -amyloid (25-35)-induced cognitive deficits in mice. <i>Experimental Neurology</i> , 2007, 203, 241-245.	2.0	325
2	Oxidative stress parameters in unmedicated and treated bipolar subjects during initial manic episode: A possible role for lithium antioxidant effects. <i>Neuroscience Letters</i> , 2007, 421, 33-36.	1.0	281
3	Quinolinic acid stimulates synaptosomal glutamate release and inhibits glutamate uptake into astrocytes. <i>Neurochemistry International</i> , 2002, 40, 621-627.	1.9	247
4	Involvement of glutamate and reactive oxygen species in methylmercury neurotoxicity. <i>Brazilian Journal of Medical and Biological Research</i> , 2007, 40, 285-291.	0.7	243
5	Neuroprotection by caffeine and adenosine A2A receptor blockade of $\beta$ -amyloid neurotoxicity. <i>British Journal of Pharmacology</i> , 2003, 138, 1207-1209.	2.7	219
6	Effects of linalool on glutamatergic system in the rat cerebral cortex. <i>Neurochemical Research</i> , 1995, 20, 461-465.	1.6	194
7	AgRP Neurons Mediate Sirt1's Action on the Melanocortin System and Energy Balance: Roles for Sirt1 in Neuronal Firing and Synaptic Plasticity. <i>Journal of Neuroscience</i> , 2010, 30, 11815-11825.	1.7	194
8	Prenatal methylmercury exposure hampers glutathione antioxidant system ontogenesis and causes long-lasting oxidative stress in the mouse brain. <i>Toxicology and Applied Pharmacology</i> , 2008, 227, 147-154.	1.3	191
9	Riluzole Enhances Glutamate Uptake in Rat Astrocyte Cultures. <i>Cellular and Molecular Neurobiology</i> , 2004, 24, 123-128.	1.7	188
10	Decreased Plasma Brain Derived Neurotrophic Factor Levels in Unmedicated Bipolar Patients During Manic Episode. <i>Biological Psychiatry</i> , 2007, 61, 142-144.	0.7	187
11	Anticonvulsant properties of linalool in glutamate-related seizure models. <i>Phytomedicine</i> , 1999, 6, 107-113.	2.3	181
12	Methylmercury induces oxidative injury, alterations in permeability and glutamine transport in cultured astrocytes. <i>Brain Research</i> , 2007, 1131, 1-10.	1.1	163
13	Serum levels of S100B and NSE proteins in Alzheimer's disease patients. <i>Journal of Neuroinflammation</i> , 2010, 7, 6.	3.1	158
14	Neuropsychiatric Evaluation in Subjects Chronically Exposed to Organophosphate Pesticides. <i>Toxicological Sciences</i> , 2003, 72, 267-271.	1.4	157
15	Neuron-Specific Enolase, S100B, and Glial Fibrillary Acidic Protein Levels as Outcome Predictors in Patients With Severe Traumatic Brain Injury. <i>Neurosurgery</i> , 2011, 68, 1624-1631.	0.6	157
16	Guanosine and GMP prevent seizures induced by quinolinic acid in mice. <i>Brain Research</i> , 2000, 864, 40-43.	1.1	155
17	Highly palatable diet consumption increases protein oxidation in rat frontal cortex and anxiety-like behavior. <i>Life Sciences</i> , 2007, 81, 198-203.	2.0	142
18	Reduced serum BDNF levels in schizophrenic patients on clozapine or typical antipsychotics. <i>Journal of Psychiatric Research</i> , 2007, 41, 31-35.	1.5	142

#	ARTICLE	IF	CITATIONS
19	Increased serum S100B protein in schizophrenia: a study in medication-free patients. <i>Journal of Psychiatric Research</i> , 2001, 35, 11-14.	1.5	137
20	Proposal of a guanine-based purinergic system in the mammalian central nervous system. , 2007, 116, 401-416.		136
21	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> , 2011, 6, e19397.	1.1	136
22	AgRP neurons regulate development of dopamine neuronal plasticity and nonfood-associated behaviors. <i>Nature Neuroscience</i> , 2012, 15, 1108-1110.	7.1	136
23	The Serum S100B Concentration Is Age Dependent. <i>Clinical Chemistry</i> , 2002, 48, 950-952.	1.5	131
24	Lithium increases plasma brain-derived neurotrophic factor in acute bipolar mania: A preliminary 4-week study. <i>Neuroscience Letters</i> , 2011, 494, 54-56.	1.0	125
25	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> , 2013, 34, 509-518.	1.2	124
26	Effect of Perinatal Lead Exposure on Rat Behaviour in Open-Field and Two-Way Avoidance Tasks. <i>Basic and Clinical Pharmacology and Toxicology</i> , 1996, 79, 150-156.	0.0	122
27	Behavioral effects of taurine pretreatment in zebrafish acutely exposed to ethanol. <i>Neuropharmacology</i> , 2012, 63, 613-623.	2.0	121
28	Caffeine and an adenosine A <sub>2A</sub> receptor antagonist prevent memory impairment and synaptotoxicity in adult rats triggered by a convulsive episode in early life. <i>Journal of Neurochemistry</i> , 2010, 112, 453-462.	2.1	115
29	Resveratrol Protects C6 Astrocyte Cell Line against Hydrogen Peroxide-Induced Oxidative Stress through Heme Oxygenase 1. <i>PLoS ONE</i> , 2013, 8, e64372.	1.1	114
30	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> , 2008, 69, 1237-1245.	1.1	111
31	Effect of treatment with mercury chloride and lead acetate during the second stage of rapid postnatal brain growth on Î-aminolevulinic acid dehydratase (ALA-D) activity in brain, liver, kidney and blood of suckling rats. <i>Toxicology</i> , 1995, 100, 27-37.	2.0	109
32	Diphenyl diselenide and diphenyl ditelluride affect the rat glutamatergic system in vitro and in vivo. <i>Brain Research</i> , 2001, 906, 157-163.	1.1	108
33	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> , 2010, 214, 254-259.	1.2	107
34	Schizophrenia: a purinergic hypothesis. <i>Medical Hypotheses</i> , 2000, 54, 157-166.	0.8	104
35	Ebselen prevents excitotoxicity provoked by glutamate in rat cerebellar granule neurons. <i>Neuroscience Letters</i> , 2001, 299, 217-220.	1.0	102
36	Effects of linalool on glutamate release and uptake in mouse cortical synaptosomes. <i>Neurochemical Research</i> , 2001, 26, 191-194.	1.6	102

#	ARTICLE	IF	CITATIONS
37	Beta-endorphin causes retrograde amnesia and is released from the rat brain by various forms of training and stimulation. <i>Psychopharmacology</i> , 1980, 70, 173-177.	1.5	100
38	Caffeine prevents age-associated recognition memory decline and changes brain-derived neurotrophic factor and tirosine kinase receptor (TrkB) content in mice. <i>Neuroscience</i> , 2008, 153, 1071-1078.	1.1	100
39	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> , 2008, 53, 89-94.	1.9	96
40	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> , 2010, 171, 683-692.	1.1	96
41	Hippocampal Astrocyte Cultures from Adult and Aged Rats Reproduce Changes in Glial Functionality Observed in the Aging Brain. <i>Molecular Neurobiology</i> , 2017, 54, 2969-2985.	1.9	96
42	Morphological changes in hippocampal astrocytes induced by environmental enrichment in mice. <i>Brain Research</i> , 2009, 1274, 47-54.	1.1	95
43	Resveratrol increases antioxidant defenses and decreases proinflammatory cytokines in hippocampal astrocyte cultures from newborn, adult and aged Wistar rats. <i>Toxicology in Vitro</i> , 2014, 28, 479-484.	1.1	95
44	Effect of orally administered guanosine on seizures and death induced by glutamatergic agents. <i>Brain Research</i> , 2001, 912, 176-180.	1.1	93
45	Chronically administered guanosine is anticonvulsant, amnesic and anxiolytic in mice. <i>Brain Research</i> , 2003, 977, 97-102.	1.1	93
46	Activation of glutamate uptake by guanosine in primary astrocyte cultures. <i>NeuroReport</i> , 2001, 12, 879-881.	0.6	90
47	Two-dimensional polyacrylamide gel electrophoresis of bovine seminal plasma proteins and their relation with semen freezability. <i>Theriogenology</i> , 2004, 61, 255-266.	0.9	90
48	Quinolinic acid inhibits glutamate uptake into synaptic vesicles from rat brain. <i>NeuroReport</i> , 2000, 11, 249-254.	0.6	86
49	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> , 2003, 73, 135-140.	1.4	83
50	Diphenyl diselenide protects rat hippocampal slices submitted to oxygen-glucose deprivation and diminishes inducible nitric oxide synthase immunocontent. <i>Brain Research</i> , 2003, 986, 196-199.	1.1	82
51	Increase in Serum S100B Protein Level After a Swimming Race. <i>Applied Physiology, Nutrition, and Metabolism</i> , 2003, 28, 710-716.	1.7	81
52	Purinergic dysfunction in mania: an integrative model. <i>Medical Hypotheses</i> , 2002, 58, 297-304.	0.8	79
53	Mitochondrial permeability transition in neuronal damage promoted by Ca <sup>2+</sup> and respiratory chain complex II inhibition. <i>Journal of Neurochemistry</i> , 2004, 90, 1025-1035.	2.1	79
54	Astroglial and cognitive effects of chronic cerebral hypoperfusion in the rat. <i>Brain Research</i> , 2009, 1251, 204-212.	1.1	79

#	ARTICLE	IF	CITATIONS
55	Ebselen protects against methylmercury-induced inhibition of glutamate uptake by cortical slices from adult mice. <i>Toxicology Letters</i> , 2003, 144, 351-357.	0.4	78
56	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> , 2010, 34, 819-821.	2.5	76
57	Extracellular conversion of guanine-based purines to guanosine specifically enhances astrocyte glutamate uptake. <i>Brain Research</i> , 2003, 972, 84-89.	1.1	75
58	Interleukin-6 Serum Levels in Patients with Parkinson's Disease. <i>Neurochemical Research</i> , 2009, 34, 1401-1404.	1.6	75
59	Maternal Milk as Methylmercury Source for Suckling Mice: Neurotoxic Effects Involved with the Cerebellar Glutamatergic System. <i>Toxicological Sciences</i> , 2004, 81, 172-178.	1.4	74
60	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> , 1984, 9, 381-389.	1.3	73
61	Exercise affects glutamate receptors in postsynaptic densities from cortical mice brain. <i>Brain Research</i> , 2005, 1065, 20-25.	1.1	73
62	Guanosine inhibits LPS-induced pro-inflammatory response and oxidative stress in hippocampal astrocytes through the heme oxygenase-1 pathway. <i>Purinergic Signalling</i> , 2015, 11, 571-580.	1.1	72
63	Antinociceptive properties of the xanthine oxidase inhibitor allopurinol in mice: role of $A_1$ adenosine receptors. <i>British Journal of Pharmacology</i> , 2009, 156, 163-172.	2.7	70
64	Probucol, a lipid-lowering drug, prevents cognitive and hippocampal synaptic impairments induced by amyloid $\beta$ peptide in mice. <i>Experimental Neurology</i> , 2012, 233, 767-775.	2.0	70
65	Enriched environment effects on behavior, memory and BDNF in low and high exploratory mice. <i>Physiology and Behavior</i> , 2011, 102, 475-480.	1.0	67
66	Characterization of Adult Rat Astrocyte Cultures. <i>PLoS ONE</i> , 2013, 8, e60282.	1.1	67
67	Exercise increases insulin signaling in the hippocampus: Physiological effects and pharmacological impact of intracerebroventricular insulin administration in mice. <i>Hippocampus</i> , 2011, 21, 1082-1092.	0.9	66
68	Oxidative stress mediated by NMDA, AMPA/K <sub>A</sub> channels in acute hippocampal slices: Neuroprotective effect of resveratrol. <i>Toxicology in Vitro</i> , 2014, 28, 544-551.	1.1	66
69	Ontogenetic profile of glutamate uptake in brain structures slices from rats: sensitivity to guanosine. <i>Mechanisms of Ageing and Development</i> , 2004, 125, 475-481.	2.2	65
70	A randomized, phase 2 clinical trial of lithium carbonate in Machado-Joseph disease. <i>Movement Disorders</i> , 2014, 29, 568-573.	2.2	65
71	The role of opioid peptides in memory and learning. <i>Behavioural Brain Research</i> , 1980, 1, 451-468.	1.2	64
72	Effects of guanine nucleotides on kainic acid binding and on adenylate cyclase in chick optic tectum and cerebellum. <i>Journal of Molecular Neuroscience</i> , 1991, 3, 39-45.	1.1	64

#	ARTICLE	IF	CITATIONS
73	Anticonvulsant effect of GMP depends on its conversion to guanosine. <i>Brain Research</i> , 2004, 1005, 182-186.	1.1	64
74	Resveratrol Prevents Ammonia Toxicity in Astroglial Cells. <i>PLoS ONE</i> , 2012, 7, e52164.	1.1	64
75	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> , 2009, 23, 302-307.	1.1	63
76	Structure-activity relationship of flavonoids derived from medicinal plants in preventing methylmercury-induced mitochondrial dysfunction. <i>Environmental Toxicology and Pharmacology</i> , 2010, 30, 272-278.	2.0	63
77	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> , 2015, 5, 328-339.	3.9	63
78	Profile of nonprotein thiols, lipid peroxidation and Î-aminolevulinate dehydratase activity in mouse kidney and liver in response to acute exposure to mercuric chloride and sodium selenite. <i>Toxicology</i> , 2003, 184, 179-187.	2.0	62
79	Repeated Restraint Stress Alters Hippocampal Glutamate Uptake and Release in the Rat. <i>Neurochemical Research</i> , 2004, 29, 1703-1709.	1.6	62
80	Elevated serum S100B protein in drug-free bipolar patients during first manic episode: a pilot study. <i>European Neuropsychopharmacology</i> , 2002, 12, 269-272.	0.3	61
81	Glutamate uptake in cultured astrocytes depends on age: a study about the effect of guanosine and the sensitivity to oxidative stress induced by H2O2. <i>Mechanisms of Ageing and Development</i> , 2002, 123, 1333-1340.	2.2	61
82	Protective effects of guanosine against sepsis-induced damage in rat brain and cognitive impairment. <i>Brain, Behavior, and Immunity</i> , 2012, 26, 904-910.	2.0	61
83	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> , 2000, 181, 44-49.	0.3	60
84	S100B and NSE serum levels in patients with Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2005, 11, 39-43.	1.1	59
85	Early Activation of Extracellular Signal-Regulated Kinase Signaling Pathway in the Hippocampus is Required for Short-Term Memory Formation of a Fear-Motivated Learning. <i>Cellular and Molecular Neurobiology</i> , 2006, 26, 81-6.	1.7	59
86	Motor impairment induced by oral exposure to methylmercury in adult mice. <i>Environmental Toxicology and Pharmacology</i> , 2005, 19, 169-175.	2.0	58
87	Metallothioneins: Mercury Species-Specific Induction and Their Potential Role in Attenuating Neurotoxicity. <i>Experimental Biology and Medicine</i> , 2006, 231, 1468-1473.	1.1	58
88	Decreased S100-beta protein in schizophrenia: preliminary evidence. <i>Schizophrenia Research</i> , 2000, 43, 91-95.	1.1	57
89	Exposure to ebselen changes glutamate uptake and release by rat brain synaptosomes. <i>Neurochemical Research</i> , 2002, 27, 283-288.	1.6	57
90	Additive pro-oxidative effects of methylmercury and ebselen in liver from suckling rat pups. <i>Toxicology Letters</i> , 2004, 146, 227-235.	0.4	57

#	ARTICLE	IF	CITATIONS
91	Guanosine protects C6 astroglial cells against azide-induced oxidative damage: a putative role of heme oxygenase 1. <i>Journal of Neurochemistry</i> , 2014, 130, 61-74.	2.1	57
92	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> , 2010, 155, 230-240.	0.7	56
93	Quinolinic acid promotes seizures and decreases glutamate uptake in young rats: reversal by orally administered guanosine. <i>Brain Research</i> , 2004, 1018, 48-54.	1.1	55
94	Guanosine Anxiolytic-Like Effect Involves Adenosinergic and Glutamatergic Neurotransmitter Systems. <i>Molecular Neurobiology</i> , 2017, 54, 423-436.	1.9	55
95	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> , 2000, 173, 93-96.	0.3	52
96	Effects of chronic administered guanosine on behavioral parameters and brain glutamate uptake in rats. <i>Journal of Neuroscience Research</i> , 2005, 79, 248-253.	1.3	52
97	Duration of environmental enrichment influences the magnitude and persistence of its behavioral effects on mice. <i>Physiology and Behavior</i> , 2008, 93, 388-394.	1.0	52
98	In vivo Quinolinic Acid Increases Synaptosomal Glutamate Release in Rats: Reversal by Guanosine. <i>Neurochemical Research</i> , 2005, 30, 439-444.	1.6	51
99	GMP protects against quinolinic acid-induced loss of NADPH-diaphorase-positive cells in the rat striatum. <i>Neuroscience Letters</i> , 1997, 225, 145-148.	1.0	50
100	Omega-3 fatty acids deprivation affects ontogeny of glutamatergic synapses in rats: Relevance for behavior alterations. <i>Neurochemistry International</i> , 2010, 56, 753-759.	1.9	50
101	S100B protein and neuron-specific enolase as predictors of cognitive dysfunction after coronary artery bypass graft surgery. <i>European Journal of Anaesthesiology</i> , 2016, 33, 681-689.	0.7	50
102	Amyloid $\beta$ oligomers in cellular models of Alzheimer's disease. <i>Journal of Neurochemistry</i> , 2020, 155, 348-369.	2.1	50
103	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> , 2016, 11, e0152308.	1.1	50
104	Intrahippocampal spermidine administration improves inhibitory avoidance performance in rats. <i>Behavioural Pharmacology</i> , 2000, 11, 57-61.	0.8	49
105	Guanosine Protects Against Cortical Focal Ischemia. Involvement of Inflammatory Response. <i>Molecular Neurobiology</i> , 2015, 52, 1791-1803.	1.9	49
106	Guanine nucleotides inhibit the stimulation of GFAP phosphorylation by glutamate. <i>NeuroReport</i> , 1995, 6, 249-252.	0.6	48
107	Ebselen protects glutamate uptake inhibition caused by methyl mercury but does not by Hg <sup>2+</sup> . <i>Toxicology</i> , 2005, 214, 57-66.	2.0	48
108	Effect of protein malnutrition on redox state of the hippocampus of rat. <i>Brain Research</i> , 2005, 1042, 17-22.	1.1	48

#	ARTICLE	IF	CITATIONS
109	Cannabinoid receptor agonists reduce the short-term mitochondrial dysfunction and oxidative stress linked to excitotoxicity in the rat brain. <i>Neuroscience</i> , 2015, 285, 97-106.	1.1	48
110	Systemic Inflammation as a Driver of Brain Injury: the Astrocyte as an Emerging Player. <i>Molecular Neurobiology</i> , 2018, 55, 2685-2695.	1.9	48
111	Mechanisms of the inhibitory effects of selenium and mercury on the activity of $\hat{\Gamma}$ -aminolevulinate dehydratase from mouse liver, kidney and brain. <i>Toxicology Letters</i> , 2003, 139, 55-66.	0.4	47
112	Hypoxic-ischemic insult decreases glutamate uptake by hippocampal slices from neonatal rats: Prevention by guanosine. <i>Experimental Neurology</i> , 2005, 195, 400-406.	2.0	47
113	Peripheral Oxidative Stress Biomarkers in Spinocerebellar Ataxia Type 3/Machadoâ€™s Joseph Disease. <i>Frontiers in Neurology</i> , 2017, 8, 485.	1.1	47
114	Glycolysis-Derived Compounds From Astrocytes That Modulate Synaptic Communication. <i>Frontiers in Neuroscience</i> , 2018, 12, 1035.	1.4	47
115	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> , 2008, 32, 1508-1515.	2.5	46
116	Expression and functional analysis of Na <sup>+</sup> -dependent glutamate transporters from zebrafish brain. <i>Brain Research Bulletin</i> , 2010, 81, 517-523.	1.4	46
117	Biochemical and behavioral deficits in the lobster cockroach <i>Nauphoeta cinerea</i> model of methylmercury exposure. <i>Toxicology Research</i> , 2015, 4, 442-451.	0.9	46
118	Allopurinol augmentation for poorly responsive schizophrenia. <i>International Clinical Psychopharmacology</i> , 2001, 16, 235-237.	0.9	45
119	Intrahippocampal infusion of the bombesin/gastrin-releasing peptide antagonist RC-3095 impairs inhibitory avoidance retention. <i>Peptides</i> , 2003, 24, 1069-1074.	1.2	45
120	Postnatal Methylmercury Exposure Induces Hyperlocomotor Activity and Cerebellar Oxidative Stress in Mice: Dependence on the Neurodevelopmental Period. <i>Neurochemical Research</i> , 2006, 31, 563-569.	1.6	45
121	The astrocyte biochemistry. <i>Seminars in Cell and Developmental Biology</i> , 2019, 95, 142-150.	2.3	45
122	The Potential Therapeutic Effect of Guanosine after Cortical Focal Ischemia in Rats. <i>PLoS ONE</i> , 2014, 9, e90693.	1.1	45
123	Chronic caffeine prevents changes in inhibitory avoidance memory and hippocampal BDNF immunocontent in middle-aged rats. <i>Neuropharmacology</i> , 2013, 64, 153-159.	2.0	44
124	Therapeutic Efficacy of Allopurinol in Mania Associated With Hyperuricemia. <i>Journal of Clinical Psychopharmacology</i> , 2001, 21, 621-622.	0.7	44
125	ibogaine attenuation of morphine withdrawal in mice: role of glutamate N-methyl-d-aspartate receptors. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2003, 27, 781-785.	2.5	43
126	Neuroprotective effect of ebselen on rat hippocampal slices submitted to oxygenâ€™glucose deprivation: correlation with immunocontent of inducible nitric oxide synthase. <i>Neuroscience Letters</i> , 2003, 346, 101-104.	1.0	43

#	ARTICLE	IF	CITATIONS
127	Brain-Derived Neurotrophic Factor in Post-Partum Depressive Mothers. <i>Neurochemical Research</i> , 2012, 37, 583-587.	1.6	43
128	Modulation of glutamatergic and GABAergic neurotransmission in glutaryl-CoA dehydrogenase deficiency. <i>Journal of Inherited Metabolic Disease</i> , 2004, 27, 825-828.	1.7	42
129	Evidence that 3-hydroxyglutaric acid interacts with NMDA receptors in synaptic plasma membranes from cerebral cortex of young rats. <i>Neurochemistry International</i> , 2004, 45, 1087-1094.	1.9	42
130	The ischemic rat heart releases S100B. <i>Life Sciences</i> , 2005, 77, 882-889.	2.0	42
131	Effects of undernutrition on glutamatergic parameters in rat brain. <i>Neurochemical Research</i> , 2003, 28, 1181-1186.	1.6	41
132	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> , 2008, 49, 842-852.	2.6	41
133	Effects of Depressive-Like Behavior of Rats on Brain Glutamate Uptake. <i>Neurochemical Research</i> , 2010, 35, 1164-1171.	1.6	41
134	Differential effects of guanine nucleotides on kainic acid binding and on adenylate cyclase activity in chick optic tectum. <i>FEBS Letters</i> , 1994, 355, 205-208.	1.3	40
135	Neuroprotective effect of GMP in hippocampal slices submitted to an in vitro model of ischemia. <i>Cellular and Molecular Neurobiology</i> , 2002, 22, 335-344.	1.7	40
136	Intracerebroventricular Guanine-Based Purines Protect Against Seizures Induced by Quinolinic Acid in Mice. <i>Neurochemical Research</i> , 2005, 30, 69-73.	1.6	40
137	Mechanisms involved in the antinociception induced by systemic administration of guanosine in mice. <i>British Journal of Pharmacology</i> , 2010, 159, 1247-1263.	2.7	40
138	$\omega$ -3-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> , 2012, 361, 151-160.	1.4	39
139	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> , 2014, 85, 517-527.	2.0	39
140	Guanosine Prevents Anhedonic-Like Behavior and Impairment in Hippocampal Glutamate Transport Following Amyloid- $\beta$ 40 Administration in Mice. <i>Molecular Neurobiology</i> , 2017, 54, 5482-5496.	1.9	39
141	Zika Virus Infection of Human Mesenchymal Stem Cells Promotes Differential Expression of Proteins Linked to Several Neurological Diseases. <i>Molecular Neurobiology</i> , 2019, 56, 4708-4717.	1.9	39
142	Metabolic Effects of Sulforaphane Oral Treatment in Streptozotocin-Diabetic Rats. <i>Journal of Medicinal Food</i> , 2012, 15, 795-801.	0.8	38
143	Selenium Compounds Prevent Amyloid $\beta$ -Peptide Neurotoxicity in Rat Primary Hippocampal Neurons. <i>Neurochemical Research</i> , 2013, 38, 2359-2363.	1.6	38
144	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> , 2014, 29, 645-654.	1.4	38

#	ARTICLE	IF	CITATIONS
145	Cytotoxic and antioxidative potentials of ethanolic extract of <i>Eugenia uniflora</i> L. (Myrtaceae) leaves on human blood cells. <i>Biomedicine and Pharmacotherapy</i> , 2016, 84, 614-621.	2.5	38
146	Endogenous Opioids, Memory Modulation, and State Dependency. , 1981, , 269-290.		38
147	The serum S100B concentration is age dependent. <i>Clinical Chemistry</i> , 2002, 48, 950-2.	1.5	38
148	Chronic treatment with caffeine blunts the hyperlocomotor but not cognitive effects of the N-methyl-d-aspartate receptor antagonist MK-801 in mice. <i>Psychopharmacology</i> , 2003, 166, 258-263.	1.5	37
149	The NMDA antagonist MK-801 induces hyperalgesia and increases CSF excitatory amino acids in rats: Reversal by guanosine. <i>Pharmacology Biochemistry and Behavior</i> , 2009, 91, 549-553.	1.3	37
150	Anxiolytic effects of diphenyl diselenide on adult zebrafish in a novelty paradigm. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2014, 54, 187-194.	2.5	37
151	Resveratrol Protects Hippocampal Astrocytes Against LPS-Induced Neurotoxicity Through HO-1, p38 and ERK Pathways. <i>Neurochemical Research</i> , 2015, 40, 1600-1608.	1.6	37
152	Astrocytes from adult Wistar rats aged in vitro show changes in glial functions. <i>Neurochemistry International</i> , 2015, 90, 93-97.	1.9	37
153	Guanosine impairs inhibitory avoidance performance in rats. <i>NeuroReport</i> , 2000, 11, 2537-2540.	0.6	36
154	Neurotoxicity Induced by Glutamate in Glucose-Deprived Rat Hippocampal Slices is Prevented by GMP. <i>Neurochemical Research</i> , 2005, 30, 83-89.	1.6	36
155	A simple webcam-based approach for the measurement of rodent locomotion and other behavioural parameters. <i>Journal of Neuroscience Methods</i> , 2006, 157, 91-97.	1.3	36
156	Brain-Derived Neurotrophic Factor Levels in Women with Postpartum Affective Disorder and Suicidality. <i>Neurochemical Research</i> , 2012, 37, 2229-2234.	1.6	36
157	Inhibition of adenylate cyclase activity by 5-aminolevulinic acid in rat and human brain.. <i>Neurochemistry International</i> , 2001, 38, 213-218.	1.9	35
158	S100B and NSE serum levels in obstructive sleep apnea syndrome. <i>Sleep Medicine</i> , 2006, 7, 431-435.	0.8	35
159	Serum insulin-like system alterations in patients with spinocerebellar ataxia type 3. <i>Movement Disorders</i> , 2011, 26, 731-735.	2.2	35
160	Allopurinol for refractory aggression and self-inflicted behaviour. <i>Journal of Psychopharmacology</i> , 2000, 14, 81-83.	2.0	34
161	Effects of 5-aminolevulinic acid on the glutamatergic neurotransmission. <i>Neurochemistry International</i> , 2003, 42, 115-121.	1.9	34
162	Biochemical brain markers and purinergic parameters in rat CSF after seizure induced by pentylentetrazol. <i>Brain Research Bulletin</i> , 2004, 64, 237-242.	1.4	34

#	ARTICLE	IF	CITATIONS
163	Oral administration of guanosine impairs inhibitory avoidance performance in rats and mice. <i>Neurobiology of Learning and Memory</i> , 2004, 81, 137-143.	1.0	34
164	Acute and chronic electroconvulsive shock in rats: Effects on peripheral markers of neuronal injury and glial activity. <i>Life Sciences</i> , 2006, 78, 3013-3017.	2.0	34
165	Gliopreventive effects of guanosine against glucose deprivation in vitro. <i>Purinergic Signalling</i> , 2013, 9, 643-654.	1.1	34
166	The Adenosine Antagonist Theophylline Impairs P50 Auditory Sensory Gating in Normal Subjects. <i>Neuropsychopharmacology</i> , 2002, 27, 629-37.	2.8	33
167	Serum S100B in Pregnancy-Related Hypertensive Disorders: A Caseâ€“Control Study. <i>Clinical Chemistry</i> , 2004, 50, 435-438.	1.5	33
168	Glutaric acid stimulates glutamate binding and astrocytic uptake and inhibits vesicular glutamate uptake in forebrain from young rats. <i>Neurochemistry International</i> , 2004, 45, 1075-1086.	1.9	33
169	Hematological changes in rats chronically exposed to oral aluminum. <i>Toxicology</i> , 2005, 209, 29-37.	2.0	33
170	Dietary omega-3 deficiency reduces BDNF content and activation NMDA receptor and Fyn in dorsal hippocampus: Implications on persistence of long-term memory in rats. <i>Nutritional Neuroscience</i> , 2014, 17, 186-192.	1.5	33
171	Antioxidant effects of JM-20 on rat brain mitochondria and synaptosomes: Mitoprotection against Ca <sup>2+</sup> -induced mitochondrial impairment. <i>Brain Research Bulletin</i> , 2014, 109, 68-76.	1.4	33
172	Interaction between metals and chelating agents affects glutamate binding on brain synaptic membranes. <i>Neurochemical Research</i> , 2003, 28, 1859-1865.	1.6	32
173	Effect of Riluzole on MK-801 and Amphetamine-Induced Hyperlocomotion. <i>Neuropsychobiology</i> , 2003, 48, 27-30.	0.9	32
174	RC-3095, a bombesin/gastrin-releasing peptide receptor antagonist, impairs aversive but not recognition memory in rats. <i>European Journal of Pharmacology</i> , 2004, 486, 35-41.	1.7	32
175	Amnesic effect of GMP depends on its conversion to guanosine. <i>Neurobiology of Learning and Memory</i> , 2006, 85, 206-212.	1.0	32
176	GTP uptake into rat brain synaptic vesicles. <i>Brain Research</i> , 2006, 1070, 71-76.	1.1	32
177	Serum S100B level increases after running but not cycling exercise. <i>Applied Physiology, Nutrition and Metabolism</i> , 2014, 39, 340-344.	0.9	32
178	Allopurinol for the treatment of aggressive behaviour in patients with dementia. <i>International Clinical Psychopharmacology</i> , 2003, 18, 53-55.	0.9	31
179	Effect of subchronic caffeine treatment on MK-801-induced changes in locomotion, cognition and ataxia in mice. <i>Behavioural Pharmacology</i> , 2005, 16, 79-84.	0.8	31
180	Effects of maternal protein malnutrition on oxidative markers in the young rat cortex and cerebellum. <i>Neuroscience Letters</i> , 2006, 406, 281-284.	1.0	31

#	ARTICLE	IF	CITATIONS
181	Evidence that glutaric acid reduces glutamate uptake by cerebral cortex of infant rats. <i>Life Sciences</i> , 2007, 81, 1668-1676.	2.0	31
182	JM-20, a novel benzodiazepine-dihydropyridine hybrid molecule, protects mitochondria and prevents ischemic insult-mediated neural cell death in vitro. <i>European Journal of Pharmacology</i> , 2014, 726, 57-65.	1.7	31
183	Serum and liver lipids in rats and chicks fed with diets containing different oils. <i>Nutrition</i> , 2003, 19, 789-793.	1.1	30
184	Increased cerebrospinal fluid levels of S100B protein in rat model of mania induced by ouabain. <i>Life Sciences</i> , 2004, 76, 805-811.	2.0	30
185	Raised serum S100B protein levels in neuropsychiatric lupus. <i>Annals of the Rheumatic Diseases</i> , 2006, 65, 829-831.	0.5	30
186	Adenosine deaminase-related genes: Molecular identification, tissue expression pattern and truncated alternative splice isoform in adult zebrafish ( <i>Danio rerio</i> ). <i>Life Sciences</i> , 2007, 81, 1526-1534.	2.0	30
187	Increased serum adenosine deaminase activity in schizophrenic receiving antipsychotic treatment. <i>Neuroscience Letters</i> , 2007, 414, 61-64.	1.0	30
188	Western Style Diet Impairs Entrance of Blood-Borne Insulin-like Growth Factor-1 into the Brain. <i>NeuroMolecular Medicine</i> , 2007, 9, 324-330.	1.8	30
189	Dietary omega-3 fatty acids attenuate cellular damage after a hippocampal ischemic insult in adult rats. <i>Journal of Nutritional Biochemistry</i> , 2010, 21, 351-356.	1.9	30
190	Neuroprotection by JM-20 against oxygen-glucose deprivation in rat hippocampal slices: Involvement of the Akt/GSK-3 $\beta$ pathway. <i>Neurochemistry International</i> , 2015, 90, 215-223.	1.9	30
191	Resveratrol modulates GSH system in C6 astroglial cells through heme oxygenase 1 pathway. <i>Molecular and Cellular Biochemistry</i> , 2017, 428, 67-77.	1.4	30
192	Effects of guanine nucleotides on glutamate-induced chemiluminescence in rat hippocampal slices submitted to hypoxia. <i>Neurochemical Research</i> , 1998, 23, 519-524.	1.6	29
193	Guanine nucleotides protect against kainate toxicity in an ex vivo chick retinal preparation. <i>FEBS Letters</i> , 1998, 430, 176-180.	1.3	29
194	Guanine and adenine nucleotidase activities in rat cerebrospinal fluid. <i>Brain Research</i> , 2002, 950, 74-78.	1.1	29
195	Guanosine Enhances Glutamate Transport Capacity in Brain Cortical Slices. <i>Cellular and Molecular Neurobiology</i> , 2005, 25, 913-921.	1.7	29
196	Influence of environmental enrichment on an object recognition task in CF1 mice. <i>Physiology and Behavior</i> , 2010, 99, 17-21.	1.0	29
197	Effects of chronic guanosine treatment on hippocampal damage and cognitive impairment of rats submitted to chronic cerebral hypoperfusion. <i>Neurological Sciences</i> , 2012, 33, 985-997.	0.9	29
198	Induction of oxidative stress in brain of glutaryl-CoA dehydrogenase deficient mice by acute lysine administration. <i>Molecular Genetics and Metabolism</i> , 2012, 106, 31-38.	0.5	29

#	ARTICLE	IF	CITATIONS
199	Disruption of brain redox homeostasis in glutaryl-CoA dehydrogenase deficient mice treated with high dietary lysine supplementation. <i>Molecular Genetics and Metabolism</i> , 2013, 108, 30-39.	0.5	29
200	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> , 2013, 50, 625-632.	2.5	29
201	Neurobehavioral and biochemical changes in <i>Nauphoeta cinerea</i> following dietary exposure to chlorpyrifos. <i>Pesticide Biochemistry and Physiology</i> , 2016, 130, 22-30.	1.6	29
202	Mitochondrial involvement in memory impairment induced by scopolamine in rats. <i>Neurological Research</i> , 2017, 39, 649-659.	0.6	29
203	Quinolinic Acid-induced Seizures Stimulate Glutamate Uptake into Synaptic Vesicles from Rat Brain: Effects Prevented by Guanine-based Purines. <i>Neurochemical Research</i> , 2008, 33, 97-102.	1.6	28
204	Algorithms to predict cerebral malaria in murine models using the SHIRPA protocol. <i>Malaria Journal</i> , 2010, 9, 85.	0.8	28
205	Insulin prevents mitochondrial generation of H <sub>2</sub> O <sub>2</sub> in rat brain. <i>Experimental Neurology</i> , 2013, 247, 66-72.	2.0	28
206	Planning future clinical trials in Machado Joseph disease: Lessons from a phase 2 trial. <i>Journal of the Neurological Sciences</i> , 2015, 358, 72-76.	0.3	28
207	Antimicrobial Activity and Modulatory Effect of Essential Oil from the Leaf of <i>Rhaphiodon echinus</i> (Nees & Mart) Schauer on Some Antimicrobial Drugs. <i>Molecules</i> , 2016, 21, 743.	1.7	28
208	Alterations in the MicroRNA of the Blood of Autism Spectrum Disorder Patients: Effects on Epigenetic Regulation and Potential Biomarkers. <i>Behavioral Sciences (Basel, Switzerland)</i> , 2018, 8, 75.	1.0	28
209	Effect of morphine, ACTH, epinephrine, Met-, Leu- and des-Tyr-Met-enkephalin on $\hat{1}^2$ -endorphin-like immunoreactivity of rat brain. <i>Psychoneuroendocrinology</i> , 1982, 7, 229-234.	1.3	27
210	Interictal serum S100B levels in chronic neurocysticercosis and idiopathic epilepsy. <i>Acta Neurologica Scandinavica</i> , 2003, 108, 424-427.	1.0	27
211	Guanosine Prevents Thermal Hyperalgesia in a Rat Model of Peripheral Mononeuropathy. <i>Journal of Pain</i> , 2010, 11, 131-141.	0.7	27
212	In vitro antioxidant activity of stem bark of <i>Trichilia catigua</i> Adr. Juss. <i>Acta Pharmaceutica</i> , 2012, 62, 371-382.	0.9	27
213	Cytokines in Machado Joseph Disease/Spinocerebellar Ataxia 3. <i>Cerebellum</i> , 2016, 15, 518-525.	1.4	27
214	GMP reverses the facilitatory effect of glutamate on inhibitory avoidance task in rats. <i>NeuroReport</i> , 1996, 7, 2078-2080.	0.6	26
215	Guanine nucleotides inhibit cAMP accumulation induced by metabotropic glutamate receptor activation. <i>Neurochemical Research</i> , 1998, 23, 183-188.	1.6	26
216	Dehydroepiandrosterone increases synaptosomal glutamate release and improves the performance in inhibitory avoidance task. <i>Pharmacology Biochemistry and Behavior</i> , 2004, 77, 601-606.	1.3	26

#	ARTICLE	IF	CITATIONS
217	Gestational and postnatal malnutrition affects sensitivity of young rats to picrotoxin and quinolinic acid and uptake of GABA by cortical and hippocampal slices. <i>Developmental Brain Research</i> , 2005, 154, 177-185.	2.1	26
218	Kinetic characterization of adenosine deaminase activity in zebrafish ( <i>Danio rerio</i> ) brain. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2008, 151, 96-101.	0.7	26
219	Riluzole increases glutamate uptake by cultured C6 astroglial cells. <i>International Journal of Developmental Neuroscience</i> , 2013, 31, 482-486.	0.7	26
220	Nandrolone-induced aggressive behavior is associated with alterations in extracellular glutamate homeostasis in mice. <i>Hormones and Behavior</i> , 2014, 66, 383-392.	1.0	26
221	Olfactory bulbectomy in mice triggers transient and long-lasting behavioral impairments and biochemical hippocampal disturbances. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017, 76, 1-11.	2.5	26
222	Caffeine and cannabinoid receptors modulate impulsive behavior in an animal model of attentional deficit and hyperactivity disorder. <i>European Journal of Neuroscience</i> , 2019, 49, 1673-1683.	1.2	26
223	Alteration of Ca <sup>2+</sup> Fluxes in Brain Microsomes by K <sup>+</sup> and Na <sup>+</sup> : Modulation by Sulfated Polysaccharides and Trifluoperazine. <i>Journal of Neurochemistry</i> , 1996, 66, 772-778.	2.1	25
224	3-Hydroxyglutaric acid enhances glutamate uptake into astrocytes from cerebral cortex of young rats. <i>Neurochemistry International</i> , 2004, 44, 345-353.	1.9	25
225	Acute Treatment with Diphenyl Diselenide Inhibits Glutamate Uptake into Rat Hippocampal Slices and Modifies Glutamate Transporters, SNAP-25, and GFAP Immunocontent. <i>Toxicological Sciences</i> , 2010, 113, 434-443.	1.4	25
226	Evaluation of spontaneous recovery of behavioral and brain injury profiles in zebrafish after hypoxia. <i>Behavioural Brain Research</i> , 2013, 253, 145-151.	1.2	25
227	Influence of diphenyl diselenide on chlorpyrifos-induced toxicity in <i>Drosophila melanogaster</i> . <i>Journal of Trace Elements in Medicine and Biology</i> , 2015, 32, 52-59.	1.5	25
228	Striatal neuronal death mediated by astrocytes from the <i>Gcdh</i> <sup>+/Δ</sup> mouse model of glutaric acidemia type I. <i>Human Molecular Genetics</i> , 2015, 24, 4504-4515.	1.4	25
229	Neuroprotection of luteolin against methylmercury-induced toxicity in lobster cockroach <i>Nauphoeta cinerea</i> . <i>Environmental Toxicology and Pharmacology</i> , 2016, 42, 243-251.	2.0	25
230	̂-Aminolevulinic Acid Dehydratase Activity in Weanling and Adult Rats Exposed to Lead Acetate. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1996, 57, 47-53.	1.3	24
231	Electrophysiological effects of guanosine and MK-801 in a quinolinic acid-induced seizure model. <i>Experimental Neurology</i> , 2010, 221, 296-306.	2.0	24
232	Pretreatment with Memantine Prevents Alzheimer-Like Alterations Induced by Intrahippocampal Okadaic Acid Administration in Rats. <i>Current Alzheimer Research</i> , 2012, 9, 1182-1190.	0.7	24
233	Marked reduction of Na <sup>+</sup> , K <sup>+</sup> -ATPase and creatine kinase activities induced by acute lysine administration in glutaryl-CoA dehydrogenase deficient mice. <i>Molecular Genetics and Metabolism</i> , 2012, 107, 81-86.	0.5	24
234	Reduction of Na <sup>+</sup> , K <sup>+</sup> -ATPase activity and expression in cerebral cortex of glutaryl-CoA dehydrogenase deficient mice: A possible mechanism for brain injury in glutaric aciduria type I. <i>Molecular Genetics and Metabolism</i> , 2012, 107, 375-382.	0.5	24

#	ARTICLE	IF	CITATIONS
235	Anti-aging effects of guanosine in glial cells. <i>Purinergic Signalling</i> , 2016, 12, 697-706.	1.1	24
236	Glioprotective Effect of Resveratrol: an Emerging Therapeutic Role for Oligodendroglial Cells. <i>Molecular Neurobiology</i> , 2018, 55, 2967-2978.	1.9	24
237	Resveratrol prevents ammonia-induced mitochondrial dysfunction and cellular redox imbalance in C6 astroglial cells. <i>Nutritional Neuroscience</i> , 2018, 21, 276-285.	1.5	24
238	Guanine derivatives modulate l-glutamate uptake into rat brain synaptic vesicles. <i>Neurochemistry International</i> , 2004, 44, 423-431.	1.9	23
239	Increased S100B Serum Levels in Dilated Cardiomyopathy Patients. <i>Journal of Cardiac Failure</i> , 2007, 13, 850-854.	0.7	23
240	Pentylentetrazol kindling alters adenine and guanine nucleotide catabolism in rat hippocampal slices and cerebrospinal fluid. <i>Epilepsy Research</i> , 2007, 75, 104-111.	0.8	23
241	Atypical neuroleptic risperidone modulates glial functions in C6 astroglial cells. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2009, 33, 11-15.	2.5	23
242	Catuaba ( <i>Trichilia catigua</i> ) Prevents Against Oxidative Damage Induced by In Vitro Ischemiaâ€“Reperfusion in Rat Hippocampal Slices. <i>Neurochemical Research</i> , 2012, 37, 2826-2835.	1.6	23
243	Ammonia impairs glutamatergic communication in astroglial cells: protective role of resveratrol. <i>Toxicology in Vitro</i> , 2015, 29, 2022-2029.	1.1	23
244	Toxic synergism between quinolinic acid and organic acids accumulating in glutaric acidemia type I and in disorders of propionate metabolism in rat brain synaptosomes: Relevance for metabolic acidemias. <i>Neuroscience</i> , 2015, 308, 64-74.	1.1	23
245	S100B content and SOD activity in amniotic fluid of pregnancies with Down syndrome. <i>Clinical Biochemistry</i> , 2004, 37, 134-137.	0.8	22
246	Ontogenetic changes in serum S100B in Down syndrome patients. <i>Clinical Biochemistry</i> , 2005, 38, 433-435.	0.8	22
247	Different Effect of High Fat Diet and Physical Exercise in the Hippocampal Signaling. <i>Neurochemical Research</i> , 2008, 33, 880-885.	1.6	22
248	Identification of oral bacteria on titanium implant surfaces by 16S rDNA sequencing. <i>Clinical Oral Implants Research</i> , 2017, 28, 697-703.	1.9	22
249	Increased Glutamate Receptor and Transporter Expression in the Cerebral Cortex and Striatum of <i>Gcdh</i> <sup>-/-</sup> Mice: Possible Implications for the Neuropathology of Glutaric Acidemia Type I. <i>PLoS ONE</i> , 2014, 9, e90477.	1.1	22
250	Specific binding of [3H]GppNHP to extracellular membrane receptors in chick cerebellum: possible involvement of kainic acid receptors. <i>FEBS Letters</i> , 1997, 406, 114-118.	1.3	21
251	Compounds extracted from <i>Phyllanthus</i> and <i>Jatropha elliptica</i> inhibit the binding of [3H]glutamate and [3H]GMP-PNP in rat cerebral cortex membrane. <i>Neurochemical Research</i> , 2000, 25, 211-215.	1.6	21
252	Guanine based purines inhibit [3H]glutamate and [3H]AMPA binding at postsynaptic densities from cerebral cortex of rats. <i>Brain Research</i> , 2002, 928, 106-112.	1.1	21

#	ARTICLE	IF	CITATIONS
253	Methylmercury inhibits glutamate uptake by synaptic vesicles from rat brain. <i>NeuroReport</i> , 2003, 14, 577-580.	0.6	21
254	Age and Brain Structural Related Effects of Glutaric and 3-Hydroxyglutaric Acids on Glutamate Binding to Plasma Membranes During Rat Brain Development. <i>Cellular and Molecular Neurobiology</i> , 2007, 27, 805-818.	1.7	21
255	Antinociceptive effects of intracerebroventricular administration of guanine-based purines in mice: Evidences for the mechanism of action. <i>Brain Research</i> , 2008, 1234, 50-58.	1.1	21
256	Importance of Schedule of Administration in the Therapeutic Efficacy of Guanosine: Early Intervention After Injury Enhances Glutamate Uptake in Model of Hypoxia-ischemia. <i>Journal of Molecular Neuroscience</i> , 2009, 38, 216-219.	1.1	21
257	Chronic ethanol treatment alters purine nucleotide hydrolysis and nucleotidase gene expression pattern in zebrafish brain. <i>NeuroToxicology</i> , 2011, 32, 871-878.	1.4	21
258	Treadmill running frequency on anxiety and hippocampal adenosine receptors density in adult and middle-aged rats. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2012, 36, 198-204.	2.5	21
259	JM-20 Treatment After MCAO Reduced Astrocyte Reactivity and Neuronal Death on Peri-infarct Regions of the Rat Brain. <i>Molecular Neurobiology</i> , 2019, 56, 502-512.	1.9	21
260	Effects of Undernutrition during Suckling on Footshock Escape Behavior and on Related Neurochemical Parameters in Rats. <i>Journal of Nutrition</i> , 1985, 115, 1418-1424.	1.3	20
261	Effect of guanine nucleotides on [ <sup>3</sup> H]glutamate binding and on adenylate cyclase activity in rat brain membranes. <i>Neurochemical Research</i> , 1997, 22, 181-187.	1.6	20
262	Inhibition of Glutamate Uptake into Synaptic Vesicles from Rat Brain by 3-Nitropropionic Acid in Vitro. <i>Experimental Neurology</i> , 2001, 172, 250-254.	2.0	20
263	Blockade of adenosine A1 receptors prevents methylphenidate-induced impairment of object recognition task in adult mice. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2011, 35, 169-176.	2.5	20
264	Brazilian scientific production in science education. <i>Scientometrics</i> , 2012, 92, 697-710.	1.6	20
265	Lipoic acid and N-acetylcysteine prevent ammonia-induced inflammatory response in C6 astroglial cells: The putative role of ERK and HO1 signaling pathways. <i>Toxicology in Vitro</i> , 2015, 29, 1350-1357.	1.1	20
266	Age-Dependent Neurochemical Remodeling of Hypothalamic Astrocytes. <i>Molecular Neurobiology</i> , 2018, 55, 5565-5579.	1.9	20
267	PET Imaging as a Tool for Assessing COVID-19 Brain Changes. <i>Trends in Neurosciences</i> , 2020, 43, 935-938.	4.2	20
268	Effects of guanine nucleotides on adenosine and glutamate modulation of cAMP levels in optic tectum slices from chicks. <i>Neurochemistry International</i> , 1999, 34, 213-220.	1.9	19
269	Time-related increase in mitochondrial superoxide production, biomolecule damage and antioxidant enzyme activities in cortical astrocyte cultures. <i>NeuroReport</i> , 2002, 13, 1515-1518.	0.6	19
270	In vitro effects of d-2-hydroxyglutaric acid on glutamate binding, uptake and release in cerebral cortex of rats. <i>Journal of the Neurological Sciences</i> , 2004, 217, 189-194.	0.3	19

#	ARTICLE	IF	CITATIONS
271	Methylmercury increases S100B content in rat cerebrospinal fluid. <i>Environmental Toxicology and Pharmacology</i> , 2005, 19, 249-253.	2.0	19
272	Brain injury markers (S100B and NSE) in chronic cocaine dependents. <i>Revista Brasileira De Psiquiatria</i> , 2007, 29, 134-139.	0.9	19
273	Naturally Occurring Compounds Affect Glutamatergic Neurotransmission in Rat Brain. <i>Neurochemical Research</i> , 2007, 32, 1950-1956.	1.6	19
274	Profile of glutamate uptake and cellular viability in hippocampal slices exposed to oxygen and glucose deprivation: Developmental aspects and protection by guanosine. <i>Brain Research</i> , 2008, 1188, 233-240.	1.1	19
275	Chronic sulforaphane oral treatment accentuates blood glucose impairment and may affect GLUT3 expression in the cerebral cortex and hypothalamus of rats fed with a highly palatable diet. <i>Food and Function</i> , 2013, 4, 1271.	2.1	19
276	Prevalence of depression symptoms and serum levels of interleukin-6 in hemodialysis patients. <i>Psychiatry and Clinical Neurosciences</i> , 2014, 68, 275-282.	1.0	19
277	Leptin stimulates the release of pro-inflammatory cytokines in hypothalamic astrocyte cultures from adult and aged rats. <i>Metabolic Brain Disease</i> , 2018, 33, 2059-2063.	1.4	19
278	Role of Glutamatergic Excitotoxicity in Neuromyelitis Optica Spectrum Disorders. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 142.	1.8	19
279	Brazilian Science between National and Foreign Journals: Methodology for Analyzing the Production and Impact in Emerging Scientific Communities. <i>PLoS ONE</i> , 2016, 11, e0155148.	1.1	19
280	Guanine nucleotides are present in human CSF. <i>NeuroReport</i> , 1997, 8, 3771-3774.	0.6	18
281	Guanosine selectively inhibits locomotor stimulation induced by the NMDA antagonist dizocilpine. <i>Behavioural Brain Research</i> , 2004, 154, 417-422.	1.2	18
282	Theoretical insights into the mechanism of action of atypical antipsychotics. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2006, 30, 541-548.	2.5	18
283	Ebselen and diorganylchalcogenides decrease in vitro glutamate uptake by RAT brain slices: Prevention by DTT and GSH. <i>Toxicology in Vitro</i> , 2007, 21, 639-645.	1.1	18
284	Gestational and Postnatal Low Protein Diet Alters Insulin Sensitivity in Female Rats. <i>Experimental Biology and Medicine</i> , 2009, 234, 1437-1444.	1.1	18
285	Short-term alterations in hippocampal glutamate transport system caused by one-single neonatal seizure episode: Implications on behavioral performance in adulthood. <i>Neurochemistry International</i> , 2011, 59, 217-223.	1.9	18
286	Physical Exercise Exacerbates Memory Deficits Induced by Intracerebroventricular STZ but Improves Insulin Regulation of H2O2 Production in Mice Synaptosomes. <i>Journal of Alzheimer's Disease</i> , 2012, 30, 889-898.	1.2	18
287	Serum NGF, BDNF and IL-6 Levels in Postpartum Mothers As Predictors of Infant Development: The Influence of Affective Disorders. <i>PLoS ONE</i> , 2014, 9, e94581.	1.1	18
288	Guanosine fast onset antidepressant-like effects in the olfactory bulbectomy mice model. <i>Scientific Reports</i> , 2020, 10, 8429.	1.6	18

#	ARTICLE	IF	CITATIONS
289	Validação da escala de ritmo circadiano - ciclo vigília/sono para adolescentes. Revista Paulista De Pediatria, 2012, 30, 409-414.	0.4	18
290	Intrahippocampal GMP administration improves inhibitory avoidance performance through GABAergic and glutamatergic mechanisms in rats. NeuroReport, 1997, 8, 3713-3716.	0.6	17
291	Chronic Treatment with Clozapine, but Not Haloperidol, Increases Striatal Ecto-5'-Nucleotidase Activity in Rats. Neuropsychobiology, 2001, 44, 99-102.	0.9	17
292	45Ca <sup>2+</sup> Influx in Rat Brain: Effect of Diorganylchalcogenides Compounds. Toxicological Sciences, 2007, 99, 566-571.	1.4	17
293	Evidence that Hyperprolinemia Alters Glutamatergic Homeostasis in Rat Brain: Neuroprotector Effect of Guanosine. Neurochemical Research, 2012, 37, 205-213.	1.6	17
294	1-(2-(2-(2-(1-Aminoethyl)phenyl)diselanyl)phenyl)ethanamine: An amino organoselenium compound with interesting antioxidant profile. Toxicology in Vitro, 2014, 28, 524-530.	1.1	17
295	Brain zinc chelation by diethyldithiocarbamate increased the behavioral and mitochondrial damages in zebrafish subjected to hypoxia. Scientific Reports, 2016, 6, 20279.	1.6	17
296	Intranasal guanosine administration presents a wide therapeutic time window to reduce brain damage induced by permanent ischemia in rats. Purinergic Signalling, 2016, 12, 149-159.	1.1	17
297	Effects of undernutrition during suckling and of training on the hypothalamic $\hat{1}^2$ -endorphin of young and adult rats. Peptides, 1988, 9, 751-755.	1.2	16
298	Interaction of adenosine and guanine derivatives in the rat hippocampus: effects on cyclic AMP levels and on the binding of adenosine analogues and GMP. , 2000, 25, 181-188.		16
299	Glycine, serine, and leucine metabolism in different regions of rat central nervous system. Neurochemical Research, 2001, 26, 245-249.	1.6	16
300	Decreased hyperlocomotion induced by MK-801, but not amphetamine and caffeine in mice lacking cellular prion protein (PrPC). Molecular Brain Research, 2002, 107, 190-194.	2.5	16
301	Utilization of energy nutrients by cerebellar slices. Neurochemical Research, 2002, 27, 201-206.	1.6	16
302	Influence of anticoagulants on the measurement of S100B protein in blood. Clinical Biochemistry, 2003, 36, 629-632.	0.8	16
303	Caffeine as a Neuroprotective Adenosine Receptor Antagonist. Annals of Pharmacotherapy, 2004, 38, 717-718.	0.9	16
304	Selenium compounds counteract the stimulation of ecto-nucleotidase activities in rat cultured cerebellar granule cells: Putative correlation with neuroprotective effects. Brain Research, 2008, 1221, 134-140.	1.1	16
305	Spinal mechanisms of antinociceptive action caused by guanosine in mice. European Journal of Pharmacology, 2009, 613, 46-53.	1.7	16
306	Metabolic and behavioral effects of chronic olanzapine treatment and cafeteria diet in rats. Behavioural Pharmacology, 2010, 21, 668-675.	0.8	16

#	ARTICLE	IF	CITATIONS
307	Systemic administration of GMP induces anxiolytic-like behavior in rats. <i>Pharmacology Biochemistry and Behavior</i> , 2010, 96, 306-311.	1.3	16
308	Nucleoside triphosphate diphosphohydrolases role in the pathophysiology of cognitive impairment induced by seizure in early age. <i>Neuroscience</i> , 2011, 180, 191-200.	1.1	16
309	Long-term NMDAR antagonism correlates reduced astrocytic glutamate uptake with anxiety-like phenotype. <i>Frontiers in Cellular Neuroscience</i> , 2015, 09, 219.	1.8	16
310	The effects of JM-20 on the glutamatergic system in synaptic vesicles, synaptosomes and neural cells cultured from rat brain. <i>Neurochemistry International</i> , 2015, 81, 41-47.	1.9	16
311	Differential effects of typical and atypical antipsychotics on astroglial cells <i>in vitro</i> . <i>International Journal of Developmental Neuroscience</i> , 2018, 69, 1-9.	0.7	16
312	Investigations into the mechanism of 2,3-dimercaptopropanol neurotoxicity. <i>Neurochemical Research</i> , 2000, 25, 1553-1558.	1.6	15
313	Effects of L-2-hydroxyglutaric acid on various parameters of the glutamatergic system in cerebral cortex of rats. <i>Metabolic Brain Disease</i> , 2003, 18, 233-243.	1.4	15
314	Purine Nucleoside Phosphorylase Activity in Rat Cerebrospinal Fluid. <i>Neurochemical Research</i> , 2004, 29, 1831-1835.	1.6	15
315	S100B and NSE serum concentrations in Machado Joseph disease. <i>Clinica Chimica Acta</i> , 2005, 351, 143-148.	0.5	15
316	Methotrexate induces seizure and decreases glutamate uptake in brain slices: Prevention by ionotropic glutamate receptors antagonists and adenosine. <i>Life Sciences</i> , 2006, 80, 1-8.	2.0	15
317	S100B protein related neonatal hypoxia. <i>Arquivos De Neuro-Psiquiatria</i> , 2006, 64, 24-29.	0.3	15
318	No major clinical impact of Val66Met BDNF gene polymorphism on temporal lobe epilepsy. <i>Epilepsy Research</i> , 2010, 88, 108-111.	0.8	15
319	The impact of the frequency of moderate exercise on memory and brain-derived neurotrophic factor signaling in young adult and middle-aged rats. <i>Neuroscience</i> , 2012, 222, 100-109.	1.1	15
320	High-Glucose and S100B Stimulate Glutamate Uptake in C6 Glioma Cells. <i>Neurochemical Research</i> , 2012, 37, 1399-1408.	1.6	15
321	Scientific Performance of Brazilian Researchers in Pharmacology with grants from CNPq: A comparative study within the Brazilian categories. <i>Anais Da Academia Brasileira De Ciencias</i> , 2016, 88, 1735-1742.	0.3	15
322	Sulforaphane ameliorates the insulin responsiveness and the lipid profile but does not alter the antioxidant response in diabetic rats. <i>Food and Function</i> , 2016, 7, 2060-2065.	2.1	15
323	Experimental Evidence that 3-Methylglutaric Acid Disturbs Mitochondrial Function and Induced Oxidative Stress in Rat Brain Synaptosomes: New Converging Mechanisms. <i>Neurochemical Research</i> , 2016, 41, 2619-2626.	1.6	15
324	Guanosine Exerts Neuroprotective Effect in an Experimental Model of Acute Ammonia Intoxication. <i>Molecular Neurobiology</i> , 2017, 54, 3137-3148.	1.9	15

#	ARTICLE	IF	CITATIONS
325	Serum S100B Levels in Patients with Lupus Erythematosus: Preliminary Observation. <i>Vaccine Journal</i> , 2002, 9, 164-166.	3.2	14
326	In vitro effects of selenite and mercuric chloride on liver thiobarbituric acidâ€“reactive substances and non-protein thiols from rats. <i>Nutrition</i> , 2003, 19, 531-535.	1.1	14
327	Cinnarizine has an atypical antipsychotic profile in animal models of psychosis. <i>Journal of Psychopharmacology</i> , 2005, 19, 342-346.	2.0	14
328	Serum S100B but not NSE Levels are Increased in Morbidly Obese Individuals Affected by Obstructive Sleep Apneaâ€“Hypopnea Syndrome. <i>Obesity Surgery</i> , 2008, 18, 993-999.	1.1	14
329	Dietary n-3 polyunsaturated fatty acids revert renal responses induced by a combination of 2 protocols that increase the amounts of advanced glycation end product in rats. <i>Nutrition Research</i> , 2015, 35, 512-522.	1.3	14
330	The effect of WIN 55,212-2 suggests a cannabinoid-sensitive component in the early toxicity induced by organic acids accumulating in glutaric acidemia type I and in related disorders of propionate metabolism in rat brain synaptosomes. <i>Neuroscience</i> , 2015, 310, 578-588.	1.1	14
331	Productivity of CNPq Researchers from Different Fields in Biomedical Sciences: The Need for Objective Bibliometric Parametersâ€“A Report from Brazil. <i>Science and Engineering Ethics</i> , 2019, 25, 1037-1055.	1.7	14
332	Guanosine Neuroprotection of Presynaptic Mitochondrial Calcium Homeostasis in a Mouse Study with Amyloid- $\beta$ Oligomers. <i>Molecular Neurobiology</i> , 2020, 57, 4790-4809.	1.9	14
333	Clozapine induces astrocyte-dependent FDG-PET hypometabolism. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 2251-2264.	3.3	14
334	BAL modulates glutamate transport in synaptosomes and synaptic vesicles from rat brain. <i>NeuroReport</i> , 2001, 12, 511-514.	0.6	13
335	Catalepsy and hypolocomotion induced by a nitric oxide donor: attenuation by theophylline. <i>European Journal of Pharmacology</i> , 2001, 432, 29-33.	1.7	13
336	Peripheral nucleotide hydrolysis in rats submitted to a model of electroconvulsive therapy. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2008, 32, 1829-1833.	2.5	13
337	Guanosine and its modulatory effects on the glutamatergic system. <i>European Neuropsychopharmacology</i> , 2008, 18, 620-622.	0.3	13
338	Adenosine A1 receptors are modified by acute treatment with methylphenidate in adult mice. <i>Brain Research</i> , 2010, 1357, 62-69.	1.1	13
339	Intracerebroventricular administration of inosine is anticonvulsant against quinolinic acid-induced seizures in mice: An effect independent of benzodiazepine and adenosine receptors. <i>Pharmacology Biochemistry and Behavior</i> , 2011, 100, 271-274.	1.3	13
340	Cd modifies hepatic Zn deposition and modulates $\text{Ca}^{2+}$ activity and MT levels by distinct mechanisms. <i>Journal of Applied Toxicology</i> , 2012, 32, 20-25.	1.4	13
341	Overnight S100B in Parkinsonâ€™s Disease: A glimpse into sleep-related neuroinflammation. <i>Neuroscience Letters</i> , 2015, 608, 57-63.	1.0	13
342	Modified expression of antioxidant genes in lobster cockroach, <i>Nauphoeta cinerea</i> exposed to methylmercury and monosodium glutamate. <i>Chemico-Biological Interactions</i> , 2020, 318, 108969.	1.7	13

#	ARTICLE	IF	CITATIONS
343	Lead exposure and latent learning ability of adult female rats. Behavioral and Neural Biology, 1993, 60, 274-279.	2.3	12
344	Chick kainate binding protein lacks GTPase activity. NeuroReport, 1999, 10, 1981-1983.	0.6	12
345	lbgaine alters synaptosomal and glial glutamate release and uptake. NeuroReport, 2001, 12, 263-267.	0.6	12
346	Allopurinol for the treatment of aggressive behaviour in patients with dementia. International Clinical Psychopharmacology, 2003, 18, 53-55.	0.9	12
347	Effects of undernutrition on glutamatergic parameters in the cerebral cortex of young rats. Physiology and Behavior, 2008, 94, 580-585.	1.0	12
348	Long-term cyclosporine treatment: Evaluation of serum biochemical parameters and histopathological alterations in Wistar rats. Experimental and Toxicologic Pathology, 2011, 63, 119-123.	2.1	12
349	Lipoic acid protects C6 cells against ammonia exposure through Na <sup>+</sup> -K <sup>+</sup> -Cl <sup>-</sup> co-transporter and PKC pathway. Toxicology in Vitro, 2013, 27, 2041-2048.	1.1	12
350	Zebrafish in Brazilian Science: Scientific Production, Impact, and Collaboration. Zebrafish, 2016, 13, 217-225.	0.5	12
351	JM-20 protects memory acquisition and consolidation on scopolamine model of cognitive impairment. Neurological Research, 2019, 41, 385-398.	0.6	12
352	Neurodevelopment in Children Exposed to Zika in utero: Clinical and Molecular Aspects. Frontiers in Genetics, 2022, 13, 758715.	1.1	12
353	Effect of naloxone, haloperidol and propranolol on cyclic 3',5'-adenosine monophosphate content of rat amygdala. European Journal of Pharmacology, 1979, 60, 345-347.	1.7	11
354	Effects of undernutrition during suckling on novelty-induced analgesia in young and adult rats. Physiology and Behavior, 1990, 47, 393-395.	1.0	11
355	Effects of adenosine on cAMP production during early development in the optic tectum of chicks. International Journal of Developmental Neuroscience, 1995, 13, 545-553.	0.7	11
356	High immuncontent of S100 $\beta$ protein in amniotic fluid of pregnancies with Down syndrome. Ultrasound in Obstetrics and Gynecology, 2000, 16, 590-592.	0.9	11
357	Therapeutic benefit of adjunctive dipyridamole in schizophrenia is probably due to adenosine-glutamate interactions. Journal of Clinical Pharmacy and Therapeutics, 2001, 26, 155-156.	0.7	11
358	Atypical antipsychotic profile of flunarizine in animal models. Psychopharmacology, 2005, 177, 344-348.	1.5	11
359	The ischemic heart as an extracerebral source for S100B. Resuscitation, 2009, 80, 144.	1.3	11
360	Gadolinium increases the vascular reactivity of rat aortic rings. Brazilian Journal of Medical and Biological Research, 2011, 44, 445-452.	0.7	11

#	ARTICLE	IF	CITATIONS
361	Propylthiouracil-induced hypothyroidism during lactation alters leucine and mannose metabolism in rat cerebellar slices. <i>Experimental Biology and Medicine</i> , 2013, 238, 31-36.	1.1	11
362	Mechanisms involved in the antinociception induced by spinal administration of inosine or guanine in mice. <i>European Journal of Pharmacology</i> , 2016, 772, 71-82.	1.7	11
363	Sustained elevation of cerebrospinal fluid glucose and lactate after a single seizure does not parallel with mitochondria energy production. <i>Epilepsy Research</i> , 2019, 152, 35-41.	0.8	11
364	Study of developmental changes on hexoses metabolism in rat cerebral cortex. <i>Neurochemical Research</i> , 2001, 26, 161-166.	1.6	10
365	Intrahippocampal infusion of ebselen impairs retention of an inhibitory avoidance task in rats. <i>European Journal of Pharmacology</i> , 2002, 451, 165-169.	1.7	10
366	The effects of ebselen on [3H]glutamate uptake by synaptic vesicles from rat brain. <i>Brain Research</i> , 2004, 1027, 192-195.	1.1	10
367	Changes in purines concentration in the cerebrospinal fluid of patients experiencing pain: A case-control study. <i>Neuroscience Letters</i> , 2010, 474, 69-73.	1.0	10
368	Ascorbate uptake is decreased in the hippocampus of ageing rats. <i>Neurochemistry International</i> , 2011, 58, 527-532.	1.9	10
369	Long-Term Oral Administration of Capsicum baccatum Extracts Does Not Alter Behavioral, Hematological, and Metabolic Parameters in CF1 Mice. <i>Evidence-based Complementary and Alternative Medicine</i> , 2012, 2012, 1-9.	0.5	10
370	Neurodevelopmental and cognitive behavior of glutaryl-CoA dehydrogenase deficient knockout mice. <i>Life Sciences</i> , 2013, 92, 137-142.	2.0	10
371	STC1 interference on calcitonin family of receptors signaling during osteoblastogenesis via adenylate cyclase inhibition. <i>Molecular and Cellular Endocrinology</i> , 2015, 403, 78-87.	1.6	10
372	Gap Junction Intercellular Communication Mediates Ammonia-Induced Neurotoxicity. <i>Neurotoxicity Research</i> , 2016, 29, 314-324.	1.3	10
373	Dietary co-exposure to methylmercury and monosodium glutamate disrupts cellular and behavioral responses in the lobster cockroach, <i>Nauphoeta cinerea</i> model. <i>Environmental Toxicology and Pharmacology</i> , 2018, 64, 70-77.	2.0	10
374	Acute lysine overload provokes marked striatum injury involving oxidative stress signaling pathways in glutaryl-CoA dehydrogenase deficient mice. <i>Neurochemistry International</i> , 2019, 129, 104467.	1.9	10
375	Rutin improves glutamate uptake and inhibits glutamate excitotoxicity in rat brain slices. <i>Molecular Biology Reports</i> , 2021, 48, 1475-1483.	1.0	10
376	Effects of Undernutrition During Suckling and Early Postweaning on the Inhibition by Met-enkephalin of Striatal Adenylate Cyclase Activity in Adult Rats. <i>Basic and Clinical Pharmacology and Toxicology</i> , 1994, 75, 321-323.	0.0	9
377	Effect of gamma-decanolactone on glutamate binding in the rat cerebral cortex. <i>Neurochemical Research</i> , 1997, 22, 1507-1510.	1.6	9
378	5-Aminolevulinic acid inhibits [3H]muscimol binding to human and rat brain synaptic membranes. <i>Neurochemical Research</i> , 2001, 26, 101-105.	1.6	9

#	ARTICLE	IF	CITATIONS
379	Effect of DHEA Glutamate Release from Synaptosomes of Rats at Different Ages. <i>Neurochemical Research</i> , 2004, 29, 335-339.	1.6	9
380	Serum S100B levels in patients with neural tube defects. <i>Clinica Chimica Acta</i> , 2006, 364, 275-278.	0.5	9
381	Effects of glyoxal or methylglyoxal on the metabolism of amino acids, lactate, glucose and acetate in the cerebral cortex of young and adult rats. <i>Brain Research</i> , 2010, 1315, 19-24.	1.1	9
382	Long-term cyclosporine treatment in non-transplanted rats and metabolic risk factors of vascular diseases. <i>Chemico-Biological Interactions</i> , 2010, 185, 53-58.	1.7	9
383	Effects of a highly palatable diet on lipid and glucose parameters, nitric oxide, and ectonucleotidases activity. <i>Applied Physiology, Nutrition and Metabolism</i> , 2010, 35, 591-597.	0.9	9
384	Evidence that acute taurine treatment alters extracellular AMP hydrolysis and adenosine deaminase activity in zebrafish brain membranes. <i>Neuroscience Letters</i> , 2010, 481, 105-109.	1.0	9
385	Evaluation of zinc effect on cadmium action in lipid peroxidation and metallothionein levels in the brain. <i>Toxicology Reports</i> , 2015, 2, 858-863.	1.6	9
386	Inhibition of Protein Phosphatase 2A: Focus on the Glutamatergic System. <i>Molecular Neurobiology</i> , 2016, 53, 3753-3755.	1.9	9
387	Multi-targeting effects of a new synthetic molecule (JM-20) in experimental models of cerebral ischemia. <i>Pharmacological Reports</i> , 2018, 70, 699-704.	1.5	9
388	Long Lasting High Lysine Diet Aggravates White Matter Injury in Glutaryl-CoA Dehydrogenase Deficient (Gcdh <sup>-/-</sup> ) Mice. <i>Molecular Neurobiology</i> , 2019, 56, 648-657.	1.9	9
389	About the source and consequences of 18F-FDG brain PET hypometabolism in short and long COVID-19. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 2674-2675.	3.3	9
390	JM-20 treatment prevents neuronal damage and memory impairment induced by aluminum chloride in rats. <i>NeuroToxicology</i> , 2021, 87, 70-85.	1.4	9
391	Violência entre pares: um estudo de caso numa escola pública de Esteio/RS. <i>Psicologia Escolar E Educacional</i> , 2012, 16, 83-93.	0.3	9
392	The Role of the Guanine-Based Purinergic System in Seizures and Epilepsy. <i>The Open Neuroscience Journal</i> , 2010, 4, 102-113.	0.8	9
393	Î²-Amyloid Treatment Sensitizes Mice to Amphetamine-Induced Locomotion but Reduces Response to Caffeine. <i>Neurodegenerative Diseases</i> , 2004, 1, 38-43.	0.8	8
394	Brazilian scientific production in areas of biological sciences: a comparative study on the modalities of full doctorate in Brazil or abroad. <i>Scientometrics</i> , 2014, 98, 415-427.	1.6	8
395	Changes in Purines Concentration in the Cerebrospinal Fluid of Pregnant Women Experiencing Pain During Active Labor. <i>Neurochemical Research</i> , 2015, 40, 2262-2269.	1.6	8
396	Original mechanisms of antipsychotic action by the indole alkaloid alstonine ( <i>Picralima nitida</i> ). <i>Phytomedicine</i> , 2015, 22, 52-55.	2.3	8

#	ARTICLE	IF	CITATIONS
397	High-glucose medium induces cellular differentiation and changes in metabolic functionality of oligodendroglia. <i>Molecular Biology Reports</i> , 2019, 46, 4817-4826.	1.0	8
398	Behavioral, Neurochemical and Brain Oscillation Abnormalities in an Experimental Model of Acute Liver Failure. <i>Neuroscience</i> , 2019, 401, 117-129.	1.1	8
399	Memantine mediates astrocytic activity in response to excitotoxicity induced by PP2A inhibition. <i>Neuroscience Letters</i> , 2019, 696, 179-183.	1.0	8
400	Zika Virus Infection Associated with Autism Spectrum Disorder: A Case Report. <i>NeuroImmunoModulation</i> , 2021, 28, 229-232.	0.9	8
401	Effect of various forms of training and stimulation on the incorporation of <sup>32</sup> P into nuclear phosphoproteins of the rat brain. <i>Pharmacology Biochemistry and Behavior</i> , 1980, 12, 481-486.	1.3	7
402	Modulation of adenosine-induced cAMP accumulation via metabotropic glutamate receptors in chick optic tectum. <i>Neurochemical Research</i> , 1995, 20, 1033-1039.	1.6	7
403	Specificity and sensitivity of S100B levels in amniotic fluid for Down syndrome diagnosis. <i>Life Sciences</i> , 2004, 76, 379-384.	2.0	7
404	Oxidative Stress and S100B Protein in Cirrhotic Children. <i>Neurochemical Research</i> , 2007, 32, 1600-1603.	1.6	7
405	Higher Vulnerability of Menadione-Exposed Cortical Astrocytes of Glutaryl-CoA Dehydrogenase Deficient Mice to Oxidative Stress, Mitochondrial Dysfunction, and Cell Death: Implications for the Neurodegeneration in Glutaric Aciduria Type I. <i>Molecular Neurobiology</i> , 2017, 54, 4795-4805.	1.9	7
406	ZIKA Virus and Neuroscience: the Need for a Translational Collaboration. <i>Molecular Neurobiology</i> , 2018, 55, 1551-1555.	1.9	7
407	Antidepressant-Like Effects of Chronic Guanosine in the Olfactory Bulbectomy Mouse Model. <i>Frontiers in Psychiatry</i> , 2021, 12, 701408.	1.3	7
408	Adenosine and Antidepressant Effects of Sleep Deprivation. <i>American Journal of Psychiatry</i> , 2000, 157, 1707-a-1708.	4.0	7
409	Undernutrition during suckling and latent learning ability of rehabilitated adult male rats. <i>Behavioral and Neural Biology</i> , 1989, 52, 39-50.	2.3	6
410	Effects of Undernutrition on Glycine Metabolism in the Cerebellum of Rats. <i>Annals of Nutrition and Metabolism</i> , 2004, 48, 246-250.	1.0	6
411	Propionic and methylmalonic acids increase cAMP levels in slices of cerebral cortex of young rats via adrenergic and glutamatergic mechanisms. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2005, 1740, 460-466.	1.8	6
412	Early life LiCl-pilocarpine-induced status epilepticus reduces acutely hippocampal glutamate uptake and Na <sup>+</sup> /K <sup>+</sup> ATPase activity. <i>Brain Research</i> , 2011, 1369, 167-172.	1.1	6
413	Topographical Analysis of Reactive Zinc in the Central Nervous System of Adult Zebrafish ( <i>Danio</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 1 0.5 6	0.5	6
414	Characterization of Amino Acid Profile and Enzymatic Activity in Adult Rat Astrocyte Cultures. <i>Neurochemical Research</i> , 2016, 41, 1578-1586.	1.6	6

#	ARTICLE	IF	CITATIONS
415	Induction of Neuroinflammatory Response and Histopathological Alterations Caused by Quinolinic Acid Administration in the Striatum of Glutaryl-CoA Dehydrogenase Deficient Mice. <i>Neurotoxicity Research</i> , 2018, 33, 593-606.	1.3	6
416	S100B protein and neuron-specific enolase as predictors of postoperative cognitive dysfunction in aged dogs: a case-control study. <i>Veterinary Anaesthesia and Analgesia</i> , 2020, 47, 740-747.	0.3	6
417	Acute Liver Failure Induces Glial Reactivity, Oxidative Stress and Impairs Brain Energy Metabolism in Rats. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 327.	1.4	6
418	Effects of intranasal guanosine administration on brain function in a rat model of ischemic stroke. <i>Purinergic Signalling</i> , 2021, 17, 255-271.	1.1	6
419	Neurochemical effects of pyroglutamic acid. <i>Neurochemical Research</i> , 1995, 20, 1437-1441.	1.6	5
420	Effects of lead on adenylate cyclase activity in rat cerebral cortex. <i>Neurochemical Research</i> , 1999, 24, 1037-1042.	1.6	5
421	Effect of dithiol chelating agents on [ <sup>3</sup> H]MK-801 and [ <sup>3</sup> H]glutamate binding to synaptic plasma membranes. <i>Neurochemical Research</i> , 2001, 26, 1305-1310.	1.6	5
422	Effect of undernutrition on GMP-PNP binding and adenylate cyclase activity from rat brain. <i>Cellular and Molecular Neurobiology</i> , 2002, 22, 365-372.	1.7	5
423	The Sesquiterpenes Polygodial and Drimaniol <i>in vitro</i> Affect Glutamatergic Transport in Rat Brain. <i>Neurochemical Research</i> , 2006, 31, 431-438.	1.6	5
424	Chronic treatment with cyclosporine affects systemic purinergic parameters, homocysteine levels and vascular disturbances in rats. <i>Chemico-Biological Interactions</i> , 2010, 188, 15-20.	1.7	5
425	<i>In vitro</i> Reactivating Effects of Standard and Newly Developed Oximes on Malaoxonâ€inhibited Mouse Brain Acetylcholinesterase. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2010, 107, 768-773.	1.2	5
426	Dietary nâ€longâ€chain polyunsaturated fatty acids modify phosphoenolpyruvate carboxykinase activity and lipid synthesis from glucose in adipose tissue of rats fed a highâ€sucrose diet. <i>Cell Biochemistry and Function</i> , 2013, 31, 636-642.	1.4	5
427	High Phosphate Serum Levels Correlate With the Severity of Experimental Severe Acute Pancreatitis. <i>Pancreas</i> , 2015, 44, 619-625.	0.5	5
428	In Vitro Adult Astrocytes are Derived From Mature Cells and Reproduce in Vivo Redox Profile. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 3111-3118.	1.2	5
429	Adenosine deaminase activity and gene expression patterns are altered after chronic ethanol exposure in zebrafish brain. <i>Neurotoxicology and Teratology</i> , 2018, 65, 14-18.	1.2	5
430	Association between Zika virus and future neurological diseases. <i>Journal of the Neurological Sciences</i> , 2020, 409, 116617.	0.3	5
431	Soluble amyloid-beta isoforms predict downstream Alzheimerâ€™s disease pathology. <i>Cell and Bioscience</i> , 2021, 11, 204.	2.1	5
432	Ontogenetic study of the effects of energetic nutrients on amino acid metabolism of rat cerebral cortex. <i>Neurochemical Research</i> , 2002, 27, 513-518.	1.6	4

#	ARTICLE	IF	CITATIONS
433	High Extracellular K <sup>+</sup> Levels Stimulate Acetate Oxidation in Brain Slices from Well and Malnourished Rats. <i>Neurochemical Research</i> , 2004, 29, 1547-1551.	1.6	4
434	Effects of glutamate transporter and receptor ligands on neuronal glutamate uptake. <i>Neuroscience Research</i> , 2005, 53, 77-83.	1.0	4
435	Desnutri�o, matura�o do sistema nervoso central e doen�as neuropsiqui�tricas. <i>Revista De Nutricao</i> , 2009, 22, 271-281.	0.4	4
436	37 years of scientific activity in a Biochemistry Department in Brazil: patterns of growth and factors leading to increased productivity. <i>Anais Da Academia Brasileira De Ciencias</i> , 2011, 83, 1121-1130.	0.3	4
437	Modulation of the chelatable Zn pool in the brain by diethyldithiocarbamate is associated with behavioral impairment in adult zebrafish. <i>Toxicology Research</i> , 2015, 4, 317-325.	0.9	4
438	Cerebral Ketone Body Oxidation Is Facilitated by a High Fat Diet Enriched with Advanced Glycation End Products in Normal and Diabetic Rats. <i>Frontiers in Neuroscience</i> , 2016, 10, 509.	1.4	4
439	ZIKAVID� Zika virus infection database: a new platform to analyze the molecular impact of Zika virus infection. <i>Journal of NeuroVirology</i> , 2020, 26, 77-83.	1.0	4
440	Increased locomotor response to amphetamine, but not other psychostimulants, in adult mice submitted to a low-protein diet. <i>Physiology and Behavior</i> , 2004, 83, 129-133.	1.0	4
441	Should We Keep Calling Antidepressants Antidepressants?. <i>Journal of Clinical Psychiatry</i> , 2001, 62, 829-830.	1.1	4
442	Rela�o Entre Ritmo Circadiano, Turno e Rendimento Escolar de Alunos do Ensino Fundamental. <i>Revista Neurociencias</i> , 0, 21, 175-183.	0.0	4
443	Study of adenosine A2 receptors in membrane preparations from optic tectum of chicks. <i>Neurochemical Research</i> , 1999, 24, 1067-1074.	1.6	3
444	Effect of inhibitory avoidance training on [3H]-glutamate binding in the hippocampus and parietal cortex of rats. <i>Brazilian Journal of Medical and Biological Research</i> , 2000, 33, 229-232.	0.7	3
445	Influence of anticoagulants on the measurement of S100B protein in blood. <i>Clinical Biochemistry</i> , 2003, 36, 519-522.	0.8	3
446	Neuroprotection by caffeine and adenosine A2A receptor blockade of $\beta^2$ -amyloid neurotoxicity. <i>British Journal of Pharmacology</i> , 2003, 139, 1571-1571.	2.7	3
447	Characterization of Imido [8-3H] Guanosine 5'-Triphosphate Binding Sites to Rat Brain Membranes. <i>Neurochemical Research</i> , 2004, 29, 805-809.	1.6	3
448	Produ�o cient�fica e forma�o de recursos humanos na �rea de bioqu�mica em institui�es federais do Rio Grande do Sul: fomento estadual. <i>Quimica Nova</i> , 2010, 33, 765-771.	0.3	3
449	The Hydrolysis of Striatal Adenine- and Guanine-Based Purines in a 6-Hydroxydopamine Rat Model of Parkinson's Disease. <i>Neurochemical Research</i> , 2011, 36, 215-222.	1.6	3
450	Effects of 3 weeks GMP oral administration on glutamatergic parameters in mice neocortex. <i>Purinergic Signalling</i> , 2012, 8, 49-58.	1.1	3

#	ARTICLE	IF	CITATIONS
451	Antioxidant and Neuroprotective Effects of KM-34, A Novel Synthetic Catechol, Against Oxidative Stress-Induced Neurotoxicity. <i>Drug Research</i> , 2018, 68, 263-269.	0.7	3
452	Guanosine enhances glutamate uptake and oxidation, preventing oxidative stress in mouse hippocampal slices submitted to high glutamate levels. <i>Brain Research</i> , 2020, 1748, 147080.	1.1	3
453	How does zebrafish support new strategies for neuroprotection and neuroregeneration in hypoxia-related diseases?. <i>Neural Regeneration Research</i> , 2016, 11, 1069.	1.6	3
454	Ondansetron Rather Than Metoclopramide for Bupropion-Induced Nausea. <i>Canadian Journal of Psychiatry</i> , 2001, 46, 371-371.	0.9	2
455	Glial cells and S100B in psychiatry (reply to Drs. Hari and Radmila Manev). <i>Journal of Psychiatric Research</i> , 2001, 35, 349-350.	1.5	2
456	Ontogenetic profile of glutamate uptake in brain structures slices from rats: sensitivity to guanosine. <i>Mechanisms of Ageing and Development</i> , 2004, 125, 475-475.	2.2	2
457	On the simulation of the time-course of dopamine D2 receptor occupancy from the pharmacokinetics of antipsychotics. <i>International Journal of Neuropsychopharmacology</i> , 2005, 8, 137-139.	1.0	2
458	Half the dose of antipsychotic in case of extrapyramidal symptoms. <i>Schizophrenia Research</i> , 2005, 78, 347-349.	1.1	2
459	Allopurinol attenuates postoperative pain and modulates the purinergic system in patients undergoing abdominal hysterectomy: a randomized controlled trial. <i>Journal of Anesthesia</i> , 2021, 35, 818-826.	0.7	2
460	2,3-Dimercaptopropanol inhibits Ca <sup>2+</sup> transport in microsomes from brain but not from fast-skeletal muscle. <i>Neurochemical Research</i> , 2001, 26, 251-256.	1.6	1
461	S100B protein and amniotic fluid. <i>Clinica Chimica Acta</i> , 2003, 335, 165-166.	0.5	1
462	The modulatory effects of allopurinol on <sup>3</sup> H-methyl <sup>3</sup> H-aspartate receptors in the central nervous system. <i>Cell Biochemistry and Function</i> , 2012, 30, 709-710.	1.4	1
463	The implications of turning behaviour performed by Amazonian manatees after release into the wild. <i>Journal of Ethology</i> , 2012, 30, 187-190.	0.4	1
464	Cellular Senescence Induced by Prolonged Subculture Adversely Affects Glutamate Uptake in C6 Lineage. <i>Neurochemical Research</i> , 2014, 39, 973-984.	1.6	1
465	Effects of allopurinol on pain and anxiety in fibromyalgia patients: a pilot study. <i>Brazilian Journal of Anesthesiology (Elsevier)</i> , 2021, 71, 660-663.	0.2	1
466	Allopurinol for fibromyalgia pain in adults: a randomized controlled trial. <i>Pain Practice</i> , 2021, , .	0.9	1
467	Novel arylidene malonate derivative, KM-34, showed neuroprotective effects on in vitro and in vivo models of ischemia/reperfusion. <i>European Journal of Pharmacology</i> , 2021, 899, 174025.	1.7	1
468	Scientific production and most researched diseases in the Biological Sciences postgraduate programs in Brazil. <i>Semina: Ciências Biológicas E Da Saúde</i> , 2022, 43, 129.	0.0	1

#	ARTICLE	IF	CITATIONS
469	Adenosine-3,5-phosphate levels in brain structures of rats submitted to four different behavioral procedures. <i>Experientia</i> , 1980, 36, 539-540.	1.2	0
470	Foreword: The Neuroscience in the South of Brazil. <i>Cellular and Molecular Neurobiology</i> , 2002, 22, 471-472.	1.7	0
471	Evaluation of the Hemolytic and Genotoxic Effect of Diorganoyl Dichalcogenides in Vitro. <i>Free Radical Biology and Medicine</i> , 2012, 53, S107.	1.3	0
472	Dietary omega-3 fatty acids prevent neonatal seizure-induced early alterations in the hippocampal glutamatergic system and memory deficits in adulthood. <i>Nutritional Neuroscience</i> , 2020, , 1-12.	1.5	0
473	Measurement of Glutamate Uptake using Radiolabeled L-[ <sup>3</sup> H]-Glutamate in Acute Transverse Slices Obtained from Rodent Resected Hippocampus. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	0