

Dutra-Filho, Cs

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173
papers

4,451
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173
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4,763
ext. citations

3.8
avg, IF

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L-index

#	Paper	IF	Citations
173	The role of oxidative damage in the neuropathology of organic acidurias: insights from animal studies. <i>Journal of Inherited Metabolic Disease</i> , 2004 , 27, 427-48	5.4	132
172	Inhibition of the mitochondrial respiratory chain complex activities in rat cerebral cortex by methylmalonic acid. <i>Neurochemistry International</i> , 2002 , 40, 593-601	4.4	93
171	D-2-hydroxyglutaric acid induces oxidative stress in cerebral cortex of young rats. <i>European Journal of Neuroscience</i> , 2003 , 17, 2017-22	3.5	85
170	Quinolinic acid inhibits glutamate uptake into synaptic vesicles from rat brain. <i>NeuroReport</i> , 2000 , 11, 249-53	1.7	81
169	Mitochondrial energy metabolism is markedly impaired by D-2-hydroxyglutaric acid in rat tissues. <i>Molecular Genetics and Metabolism</i> , 2005 , 86, 188-99	3.7	79
168	Oxidative stress in patients with phenylketonuria. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2005 , 1740, 68-73	6.9	78
167	In vitro effect of homocysteine on some parameters of oxidative stress in rat hippocampus. <i>Metabolic Brain Disease</i> , 2003 , 18, 147-54	3.9	78
166	Glutaric acid induces oxidative stress in brain of young rats. <i>Brain Research</i> , 2003 , 964, 153-8	3.7	72
165	Propionic and L-methylmalonic acids induce oxidative stress in brain of young rats. <i>NeuroReport</i> , 2000 , 11, 541-4	1.7	72
164	Evidence that oxidative stress is increased in plasma from patients with maple syrup urine disease. <i>Metabolic Brain Disease</i> , 2006 , 21, 279-86	3.9	71
163	Inhibition of cytochrome c oxidase activity in rat cerebral cortex and human skeletal muscle by D-2-hydroxyglutaric acid in vitro. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2002 , 1586, 81-91	6.9	69
162	In vitro evidence for an antioxidant role of 3-hydroxykynurenine and 3-hydroxyanthranilic acid in the brain. <i>Neurochemistry International</i> , 2007 , 50, 83-94	4.4	68
161	Induction of oxidative stress in rat brain by the metabolites accumulating in maple syrup urine disease. <i>International Journal of Developmental Neuroscience</i> , 2003 , 21, 327-32	2.7	68
160	Inhibition of brain energy metabolism by the alpha-keto acids accumulating in maple syrup urine disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2003 , 1639, 232-8	6.9	67
159	Reduction of large neutral amino acid levels in plasma and brain of hyperleucinemic rats. <i>Neurochemistry International</i> , 2001 , 38, 529-37	4.4	58
158	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, 44-9	3.2	57
157	Homocysteine induces oxidative stress, inflammatory infiltration, fibrosis and reduces glycogen/glycoprotein content in liver of rats. <i>International Journal of Developmental Neuroscience</i> , 2009 , 27, 337-44	2.7	56

156	Stimulation of lipid peroxidation in vitro in rat brain by the metabolites accumulating in maple syrup urine disease. <i>Metabolic Brain Disease</i> , 2002 , 17, 47-54	3.9	56
155	alpha-keto acids accumulating in maple syrup urine disease stimulate lipid peroxidation and reduce antioxidant defences in cerebral cortex from young rats. <i>Metabolic Brain Disease</i> , 2005 , 20, 155-67	3.9	56
154	Ascorbic acid prevents cognitive deficits caused by chronic administration of propionic acid to rats in the water maze. <i>Pharmacology Biochemistry and Behavior</i> , 2002 , 73, 623-9	3.9	54
153	Investigation of oxidative stress parameters in treated phenylketonuric patients. <i>Metabolic Brain Disease</i> , 2006 , 21, 287-96	3.9	53
152	Inhibition of succinate dehydrogenase and beta-hydroxybutyrate dehydrogenase activities by methylmalonate in brain and liver of developing rats. <i>Journal of Inherited Metabolic Disease</i> , 1993 , 16, 147-53	5.4	53
151	In vivo neuroprotective effect of L-carnitine against oxidative stress in maple syrup urine disease. <i>Metabolic Brain Disease</i> , 2011 , 26, 21-8	3.9	51
150	Induction of oxidative stress by L-2-hydroxyglutaric acid in rat brain. <i>Journal of Neuroscience Research</i> , 2003 , 74, 103-10	4.4	50
149	Evidence that quinolinic acid severely impairs energy metabolism through activation of NMDA receptors in striatum from developing rats. <i>Journal of Neurochemistry</i> , 2006 , 99, 1531-42	6	49
148	Experimental hyperphenylalaninemia provokes oxidative stress in rat brain. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2002 , 1586, 344-52	6.9	49
147	Experimental evidence that phenylalanine provokes oxidative stress in hippocampus and cerebral cortex of developing rats. <i>Cellular and Molecular Neurobiology</i> , 2010 , 30, 317-26	4.6	48
146	Proline induces oxidative stress in cerebral cortex of rats. <i>International Journal of Developmental Neuroscience</i> , 2003 , 21, 105-10	2.7	47
145	Promotion of oxidative stress by 3-hydroxyglutaric acid in rat striatum. <i>Journal of Inherited Metabolic Disease</i> , 2005 , 28, 57-67	5.4	47
144	Induction of oxidative stress by chronic and acute glutaric acid administration to rats. <i>Cellular and Molecular Neurobiology</i> , 2007 , 27, 423-38	4.6	46
143	Inhibition of brain energy metabolism by the branched-chain amino acids accumulating in maple syrup urine disease. <i>Neurochemical Research</i> , 2008 , 33, 114-24	4.6	46
142	Evaluation of the mechanisms involved in leucine-induced oxidative damage in cerebral cortex of young rats. <i>Free Radical Research</i> , 2005 , 39, 71-9	4	46
141	GM1 ganglioside attenuates convulsions and thiobarbituric acid reactive substances production induced by the intrastriatal injection of methylmalonic acid. <i>International Journal of Biochemistry and Cell Biology</i> , 2003 , 35, 465-73	5.6	46
140	Differential inhibitory effects of methylmalonic acid on respiratory chain complex activities in rat tissues. <i>International Journal of Developmental Neuroscience</i> , 2006 , 24, 45-52	2.7	42
139	Benzophenones from <i>Hypericum carinatum</i> . <i>Journal of Natural Products</i> , 2005 , 68, 784-6	4.9	41

138	Guanidinoacetate decreases antioxidant defenses and total protein sulfhydryl content in striatum of rats. <i>Neurochemical Research</i> , 2008 , 33, 1804-10	4.6	40
137	Gamma-hydroxybutyric acid induces oxidative stress in cerebral cortex of young rats. <i>Neurochemistry International</i> , 2007 , 50, 564-70	4.4	40
136	Quinolinic acid reduces the antioxidant defenses in cerebral cortex of young rats. <i>International Journal of Developmental Neuroscience</i> , 2005 , 23, 695-701	2.7	40
135	Inhibition of creatine kinase activity from rat cerebral cortex by D-2-hydroxyglutaric acid in vitro. <i>Neurochemistry International</i> , 2004 , 44, 45-52	4.4	39
134	Lipoic acid prevents oxidative stress in vitro and in vivo by an acute hyperphenylalaninemia chemically-induced in rat brain. <i>Journal of the Neurological Sciences</i> , 2010 , 292, 89-95	3.2	38
133	Nitric oxide synthase inhibition by L-NAME prevents the decrease of Na ⁺ ,K ⁺ -ATPase activity in midbrain of rats subjected to arginine administration. <i>Neurochemical Research</i> , 2001 , 26, 515-20	4.6	38
132	Protein and lipid damage in maple syrup urine disease patients: l-carnitine effect. <i>International Journal of Developmental Neuroscience</i> , 2013 , 31, 21-4	2.7	36
131	Oxidative stress in plasma from maple syrup urine disease patients during treatment. <i>Metabolic Brain Disease</i> , 2008 , 23, 71-80	3.9	36
130	Antioxidant effect of cysteamine in brain cortex of young rats. <i>Neurochemical Research</i> , 2008 , 33, 737-44.	4.6	34
129	Evidence for a synergistic action of glutaric and 3-hydroxyglutaric acids disturbing rat brain energy metabolism. <i>International Journal of Developmental Neuroscience</i> , 2007 , 25, 391-8	2.7	33
128	Inhibition of the mitochondrial respiratory chain by phenylalanine in rat cerebral cortex. <i>Neurochemical Research</i> , 2002 , 27, 353-7	4.6	33
127	Creatine kinase activity from rat brain is inhibited by branched-chain amino acids in vitro. <i>Neurochemical Research</i> , 2003 , 28, 675-9	4.6	33
126	In vivo and in vitro effects of proline on some parameters of oxidative stress in rat brain. <i>Brain Research</i> , 2003 , 991, 180-6	3.7	32
125	Characterization of the inhibition of pyruvate kinase caused by phenylalanine and phenylpyruvate in rat brain cortex. <i>Brain Research</i> , 2003 , 968, 199-205	3.7	31
124	Tyrosine promotes oxidative stress in cerebral cortex of young rats. <i>International Journal of Developmental Neuroscience</i> , 2008 , 26, 551-9	2.7	30
123	Inhibition of energy metabolism in cerebral cortex of young rats by the medium-chain fatty acids accumulating in MCAD deficiency. <i>Brain Research</i> , 2004 , 1030, 141-51	3.7	30
122	L-carnitine Prevents Oxidative Stress in the Brains of Rats Subjected to a Chemically Induced Chronic Model of MSUD. <i>Molecular Neurobiology</i> , 2016 , 53, 6007-6017	6.2	28
121	Effects of 1,4-butanediol administration on oxidative stress in rat brain: study of the neurotoxicity of gamma-hydroxybutyric acid in vivo. <i>Metabolic Brain Disease</i> , 2009 , 24, 271-82	3.9	28

120	Inhibition of energy production in vitro by glutaric acid in cerebral cortex of young rats. <i>Metabolic Brain Disease</i> , 2000 , 15, 123-31	3.9	28
119	Medium-chain fatty acids accumulating in MCAD deficiency elicit lipid and protein oxidative damage and decrease non-enzymatic antioxidant defenses in rat brain. <i>Neurochemistry International</i> , 2009 , 54, 519-25	4.4	27
118	Evidence that 3-hydroxy-3-methylglutaric acid promotes lipid and protein oxidative damage and reduces the nonenzymatic antioxidant defenses in rat cerebral cortex. <i>Journal of Neuroscience Research</i> , 2008 , 86, 683-93	4.4	27
117	Promotion of oxidative stress by L-tryptophan in cerebral cortex of rats. <i>Neurochemistry International</i> , 2006 , 49, 87-93	4.4	27
116	A chemically-induced acute model of maple syrup urine disease in rats for neurochemical studies. <i>Journal of Neuroscience Methods</i> , 2006 , 155, 224-30	3	27
115	Tyrosine administration decreases glutathione and stimulates lipid and protein oxidation in rat cerebral cortex. <i>Metabolic Brain Disease</i> , 2009 , 24, 415-25	3.9	26
114	Kynurenines impair energy metabolism in rat cerebral cortex. <i>Cellular and Molecular Neurobiology</i> , 2007 , 27, 147-60	4.6	26
113	In vitro stimulation of oxidative stress in cerebral cortex of rats by the guanidino compounds accumulating in hyperargininemia. <i>Brain Research</i> , 2001 , 923, 50-7	3.7	26
112	Ascorbic acid prevents water maze behavioral deficits caused by early postnatal methylmalonic acid administration in the rat. <i>Brain Research</i> , 2003 , 976, 234-42	3.7	25
111	5-Oxoproline reduces non-enzymatic antioxidant defenses in vitro in rat brain. <i>Metabolic Brain Disease</i> , 2007 , 22, 51-65	3.9	24
110	Glutaric acid moderately compromises energy metabolism in rat brain. <i>International Journal of Developmental Neuroscience</i> , 2005 , 23, 687-93	2.7	24
109	Effects of methylmalonate and propionate on uptake of glucose and ketone bodies in vitro by brain of developing rats. <i>Biochemical Medicine and Metabolic Biology</i> , 1991 , 45, 56-64		24
108	L-Carnitine supplementation decreases DNA damage in treated MSUD patients. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2015 , 775, 43-7	3.3	23
107	Ammonia potentiates methylmalonic acid-induced convulsions and TBARS production. <i>Experimental Neurology</i> , 2003 , 182, 455-60	5.7	23
106	Hyperphenylalaninemia reduces creatine kinase activity in the cerebral cortex of rats. <i>International Journal of Developmental Neuroscience</i> , 2003 , 21, 111-6	2.7	23
105	Urinary biomarkers of oxidative damage in Maple syrup urine disease: the L-carnitine role. <i>International Journal of Developmental Neuroscience</i> , 2015 , 42, 10-4	2.7	22
104	Tyrosine impairs enzymes of energy metabolism in cerebral cortex of rats. <i>Molecular and Cellular Biochemistry</i> , 2012 , 364, 253-61	4.2	22
103	Investigation of inflammatory profile in MSUD patients: benefit of L-carnitine supplementation. <i>Metabolic Brain Disease</i> , 2015 , 30, 1167-74	3.9	21

102	Regular exercise prevents oxidative stress in the brain of hyperphenylalaninemic rats. <i>Metabolic Brain Disease</i> , 2011 , 26, 291-7	3.9	21
101	Amino acids levels and lipid peroxidation in maple syrup urine disease patients. <i>Clinical Biochemistry</i> , 2009 , 42, 462-6	3.5	21
100	Hypermethioninemia provokes oxidative damage and histological changes in liver of rats. <i>Biochimie</i> , 2009 , 91, 961-8	4.6	21
99	Redox imbalance influence in the myocardial Akt activation in aged rats treated with DHEA. <i>Experimental Gerontology</i> , 2010 , 45, 957-63	4.5	21
98	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, 805-18	4.6	21
97	Erythrocyte glutathione peroxidase activity and plasma selenium concentration are reduced in maple syrup urine disease patients during treatment. <i>International Journal of Developmental Neuroscience</i> , 2007 , 25, 335-8	2.7	21
96	Effect of leucine administration on creatine kinase activity in rat brain. <i>Metabolic Brain Disease</i> , 2003 , 18, 17-25	3.9	21
95	Effects of methylmalonic and propionic acids on glutamate uptake by synaptosomes and synaptic vesicles and on glutamate release by synaptosomes from cerebral cortex of rats. <i>Brain Research</i> , 2001 , 920, 194-201	3.7	21
94	Phenylalanine induces oxidative stress and decreases the viability of rat astrocytes: possible relevance for the pathophysiology of neurodegeneration in phenylketonuria. <i>Metabolic Brain Disease</i> , 2016 , 31, 529-37	3.9	20
93	Pipecolic acid induces oxidative stress in vitro in cerebral cortex of young rats and the protective role of lipoic acid. <i>Metabolic Brain Disease</i> , 2014 , 29, 175-83	3.9	20
92	Pyruvate and creatine prevent oxidative stress and behavioral alterations caused by phenylalanine administration into hippocampus of rats. <i>Metabolic Brain Disease</i> , 2012 , 27, 79-89	3.9	20
91	Acute administration of 5-oxoproline induces oxidative damage to lipids and proteins and impairs antioxidant defenses in cerebral cortex and cerebellum of young rats. <i>Metabolic Brain Disease</i> , 2010 , 25, 145-54	3.9	20
90	Sulfite increases lipoperoxidation and decreases the activity of catalase in brain of rats. <i>Metabolic Brain Disease</i> , 2008 , 23, 123-32	3.9	20
89	Tryptophan administration induces oxidative stress in brain cortex of rats. <i>Metabolic Brain Disease</i> , 2008 , 23, 221-33	3.9	20
88	Alanine prevents the inhibition of pyruvate kinase activity caused by tryptophan in cerebral cortex of rats. <i>Metabolic Brain Disease</i> , 2003 , 18, 129-37	3.9	20
87	Administration of histidine to female rats induces changes in oxidative status in cortex and hippocampus of the offspring. <i>Neurochemical Research</i> , 2012 , 37, 1031-6	4.6	19
86	Role of catalase and superoxide dismutase activities on oxidative stress in the brain of a phenylketonuria animal model and the effect of lipoic acid. <i>Cellular and Molecular Neurobiology</i> , 2013 , 33, 253-60	4.6	19
85	Chronic hyperhomocysteinemia induces oxidative damage in the rat lung. <i>Molecular and Cellular Biochemistry</i> , 2011 , 358, 153-60	4.2	19

84	Inhibition of the electron transport chain and creatine kinase activity by ethylmalonic acid in human skeletal muscle. <i>Metabolic Brain Disease</i> , 2006 , 21, 11-9	3.9	19
83	Proline reduces creatine kinase activity in the brain cortex of rats. <i>Neurochemical Research</i> , 2003 , 28, 1175-80	4.6	19
82	Intracerebroventricular administration of N-acetylaspartic acid impairs antioxidant defenses and promotes protein oxidation in cerebral cortex of rats. <i>Metabolic Brain Disease</i> , 2009 , 24, 283-98	3.9	18
81	Glycine provokes lipid oxidative damage and reduces the antioxidant defenses in brain cortex of young rats. <i>Cellular and Molecular Neurobiology</i> , 2009 , 29, 253-61	4.6	18
80	Induction of oxidative stress by the metabolites accumulating in isovaleric acidemia in brain cortex of young rats. <i>Free Radical Research</i> , 2008 , 42, 707-15	4	18
79	Tyrosine inhibits creatine kinase activity in cerebral cortex of young rats. <i>Metabolic Brain Disease</i> , 2011 , 26, 221-7	3.9	17
78	Oxidative stress induction by cis-4-decenoic acid: relevance for MCAD deficiency. <i>Free Radical Research</i> , 2007 , 41, 1261-72	4	17
77	Inhibition of pyruvate kinase activity by cystine in brain cortex of rats. <i>Brain Research</i> , 2004 , 1012, 93-100	3.7	17
76	L-pyroglutamic acid inhibits energy production and lipid synthesis in cerebral cortex of young rats in vitro. <i>Neurochemical Research</i> , 2001 , 26, 1277-83	4.6	17
75	Inhibition of glutamate uptake into synaptic vesicles from rat brain by 3-nitropropionic acid in vitro. <i>Experimental Neurology</i> , 2001 , 172, 250-4	5.7	17
74	Neonatal hyperglycemia induces oxidative stress in the rat brain: the role of pentose phosphate pathway enzymes and NADPH oxidase. <i>Molecular and Cellular Biochemistry</i> , 2015 , 403, 159-67	4.2	16
73	Prevention of DNA damage by L-carnitine induced by metabolites accumulated in maple syrup urine disease in human peripheral leukocytes in vitro. <i>Gene</i> , 2014 , 548, 294-8	3.8	16
72	Phenylpyruvic acid decreases glucose-6-phosphate dehydrogenase activity in rat brain. <i>Cellular and Molecular Neurobiology</i> , 2012 , 32, 1113-8	4.6	16
71	N-acetylaspartic acid promotes oxidative stress in cerebral cortex of rats. <i>International Journal of Developmental Neuroscience</i> , 2007 , 25, 317-24	2.7	16
70	Protective effect of antioxidants on brain oxidative damage caused by proline administration. <i>Neuroscience Research</i> , 2005 , 52, 69-74	2.9	16
69	The effects of the interactions between amino acids on pyruvate kinase activity from the brain cortex of young rats. <i>International Journal of Developmental Neuroscience</i> , 2005 , 23, 509-14	2.7	16
68	Monosialoganglioside increases catalase activity in cerebral cortex of rats. <i>Free Radical Research</i> , 2004 , 38, 495-500	4	16
67	Evidence that antioxidants prevent the inhibition of Na ⁺ ,K ⁽⁺⁾ -ATPase activity induced by octanoic acid in rat cerebral cortex in vitro. <i>Neurochemical Research</i> , 2003 , 28, 1255-63	4.6	16

66	Inhibition of energy metabolism by 2-methylacetoacetate and 2-methyl-3-hydroxybutyrate in cerebral cortex of developing rats. <i>Journal of Inherited Metabolic Disease</i> , 2005 , 28, 501-15	5.4	16
65	Proline administration decreases Na ⁺ ,K ⁺ -ATPase activity in the synaptic plasma membrane from cerebral cortex of rats. <i>Metabolic Brain Disease</i> , 1999 , 14, 265-72	3.9	16
64	Creatine and pyruvate prevent the alterations caused by tyrosine on parameters of oxidative stress and enzyme activities of phosphoryltransfer network in cerebral cortex of Wistar rats. <i>Molecular Neurobiology</i> , 2015 , 51, 1184-94	6.2	15
63	Glutathione metabolism enzymes in brain and liver of hyperphenylalaninemic rats and the effect of lipoic acid treatment. <i>Metabolic Brain Disease</i> , 2014 , 29, 609-15	3.9	15
62	Experimental evidence that ornithine and homocitrulline disrupt energy metabolism in brain of young rats. <i>Brain Research</i> , 2009 , 1291, 102-12	3.7	15
61	Cysteamine prevents and reverses the inhibition of creatine kinase activity caused by cystine in rat brain cortex. <i>Neurochemistry International</i> , 2005 , 46, 391-7	4.4	15
60	Experimental hyperprolinemia induces mild oxidative stress, metabolic changes, and tissue adaptation in rat liver. <i>Journal of Cellular Biochemistry</i> , 2012 , 113, 174-83	4.7	14
59	Dehydroepiandrosterone improves hepatic antioxidant reserve and stimulates Akt signaling in young and old rats. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2011 , 127, 331-6	5.1	14
58	Promotion of oxidative stress in kidney of rats loaded with cystine dimethyl ester. <i>Pediatric Nephrology</i> , 2007 , 22, 1121-8	3.2	14
57	Effects of cysteamine on oxidative status in cerebral cortex of rats. <i>Metabolic Brain Disease</i> , 2008 , 23, 81-93	3.9	14
56	Alanine prevents the reduction of pyruvate kinase activity in brain cortex of rats subjected to chemically induced hyperphenylalaninemia. <i>Neurochemical Research</i> , 2002 , 27, 947-52	4.6	14
55	Na ⁺ , K ⁺ ATPase activity is markedly reduced by cis-4-decenoic acid in synaptic plasma membranes from cerebral cortex of rats. <i>Experimental Neurology</i> , 2006 , 197, 143-9	5.7	13
54	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, 233-43	3.9	13
53	Antioxidant treatment strategies for hyperphenylalaninemia. <i>Metabolic Brain Disease</i> , 2013 , 28, 541-50	3.9	12
52	Neurochemical evidence that the metabolites accumulating in 3-methylcrotonyl-CoA carboxylase deficiency induce oxidative damage in cerebral cortex of young rats. <i>Cellular and Molecular Neurobiology</i> , 2013 , 33, 137-46	4.6	12
51	Neuroprotective role of lipoic acid against acute toxicity of N-acetylaspartic acid. <i>Molecular and Cellular Biochemistry</i> , 2010 , 344, 231-9	4.2	12
50	Energy metabolism is compromised in skeletal muscle of rats chronically-treated with glutaric acid. <i>Metabolic Brain Disease</i> , 2007 , 22, 111-23	3.9	12
49	Alanine prevents the in vitro inhibition of glycolysis caused by phenylalanine in brain cortex of rats. <i>Metabolic Brain Disease</i> , 2003 , 18, 87-94	3.9	12

48	Arginine administration reduces catalase activity in midbrain of rats. <i>NeuroReport</i> , 2002 , 13, 1301-4	1.7	12
47	2-Hydroxybutyrate and 4-hydroxybutyrate inhibit CO ₂ formation from labeled substrates by rat cerebral cortex. <i>Biochemical Society Transactions</i> , 1995 , 23, 228S	5.1	12
46	Voluntary Exercise Prevents Oxidative Stress in the Brain of Phenylketonuria Mice. <i>JIMD Reports</i> , 2016 , 27, 69-77	1.9	11
45	Brain zinc chelation by diethylthiocarbamate increased the behavioral and mitochondrial damages in zebrafish subjected to hypoxia. <i>Scientific Reports</i> , 2016 , 6, 20279	4.9	11
44	Diabetic encephalopathy-related depression: experimental evidence that insulin and clonazepam restore antioxidant status in rat brain. <i>Cell Biochemistry and Function</i> , 2014 , 32, 711-9	4.2	11
43	Tryptophan reduces creatine kinase activity in the brain cortex of rats. <i>International Journal of Developmental Neuroscience</i> , 2004 , 22, 95-101	2.7	11
42	Chronic postnatal administration of methylmalonic acid provokes a decrease of myelin content and ganglioside N-acetylneuraminic acid concentration in cerebrum of young rats. <i>Brazilian Journal of Medical and Biological Research</i> , 2001 , 34, 227-31	2.8	11
41	Kinetic studies on the inhibition of creatine kinase activity by branched-chain alpha-amino acids in the brain cortex of rats. <i>International Journal of Developmental Neuroscience</i> , 2003 , 21, 145-51	2.7	10
40	Inhibition of rat brain lipid synthesis in vitro by 4-hydroxybutyric acid. <i>Metabolic Brain Disease</i> , 1999 , 14, 157-64	3.9	10
39	Reduced locomotor activity of rats made histidinemic by injection of histidine. <i>Journal of Nutrition</i> , 1989 , 119, 1223-7	4.1	10
38	Evidence that the major metabolites accumulating in hyperornithinemia-hyperammonemia-homocitrullinuria syndrome induce oxidative stress in brain of young rats. <i>International Journal of Developmental Neuroscience</i> , 2009 , 27, 635-41	2.7	9
37	Evidence that 3-hydroxyisobutyric acid inhibits key enzymes of energy metabolism in cerebral cortex of young rats. <i>International Journal of Developmental Neuroscience</i> , 2008 , 26, 293-9	2.7	9
36	Effects of histidine and imidazolelactic acid on various parameters of the oxidative stress in cerebral cortex of young rats. <i>International Journal of Developmental Neuroscience</i> , 2004 , 22, 67-72	2.7	9
35	Reduced Na(+), K(+)-ATPase activity in erythrocyte membranes from patients with phenylketonuria. <i>Pediatric Research</i> , 2001 , 50, 56-60	3.2	9
34	Effect of phenylalanine, p-chlorophenylalanine and alpha-methylphenylalanine on glucose uptake in vitro by the brain of young rats. <i>Biochemical Society Transactions</i> , 1990 , 18, 419	5.1	9
33	Effect of histidine administration to female rats during pregnancy and lactation on enzymes activity of phosphoryltransfer network in cerebral cortex and hippocampus of the offspring. <i>Metabolic Brain Disease</i> , 2012 , 27, 595-603	3.9	8
32	d-Serine administration provokes lipid oxidation and decreases the antioxidant defenses in rat striatum. <i>International Journal of Developmental Neuroscience</i> , 2010 , 28, 297-301	2.7	8
31	Citrulline and ammonia accumulating in citrullinemia reduces antioxidant capacity of rat brain in vitro. <i>Metabolic Brain Disease</i> , 2006 , 21, 63-74	3.9	8

30	Evaluation of the effect of chronic administration of drugs on rat behavior in the water maze task. <i>Brain Research Protocols</i> , 2003 , 12, 109-15		8
29	Inhibition of in vitro CO ₂ production and lipid synthesis by 2-hydroxybutyric acid in rat brain. <i>Brazilian Journal of Medical and Biological Research</i> , 2001 , 34, 627-31	2.8	8
28	Chronic Exposure to Alanine Generates Oxidative Stress and Alters Energy Metabolism in Cerebral Cortex and Cerebellum of Wistar Rats. <i>Molecular Neurobiology</i> , 2018 , 55, 5101-5110	6.2	7
27	Evidence that 2-methylacetoacetate induces oxidative stress in rat brain. <i>Metabolic Brain Disease</i> , 2010 , 25, 261-7	3.9	7
26	Influence of ketone bodies on oxidative stress parameters in brain of developing rats in vitro. <i>Metabolic Brain Disease</i> , 2008 , 23, 411-25	3.9	7
25	Effect of collection, transport, processing and storage of blood specimens on the activity of lysosomal enzymes in plasma and leukocytes. <i>Brazilian Journal of Medical and Biological Research</i> , 2000 , 33, 1003-13	2.8	7
24	Synaptic plasma membrane Na(+), K (+)-ATPase activity is significantly reduced by the alpha-keto acids accumulating in maple syrup urine disease in rat cerebral cortex. <i>Metabolic Brain Disease</i> , 2007 , 22, 77-88	3.9	6
23	Effect of phenylalanine and p-chlorophenylalanine on Na+, K+-ATPase activity in the synaptic plasma membrane from the cerebral cortex of rats. <i>Metabolic Brain Disease</i> , 2000 , 15, 105-14	3.9	6
22	Possible high frequency of tetrahydrobiopterin deficiency in south Brazil. <i>Journal of Inherited Metabolic Disease</i> , 1994 , 17, 223-9	5.4	6
21	An improved specific laboratory test for homocystinuria. <i>Clinica Chimica Acta</i> , 1982 , 125, 367-9	6.2	6
20	Acute exercise in treated phenylketonuria patients: Physical activity and biochemical response. <i>Molecular Genetics and Metabolism Reports</i> , 2015 , 5, 55-59	1.8	5
19	Enzymatic scavengers in the epididymal fluid: comparison between pony and miniature breed stallions. <i>Animal Reproduction Science</i> , 2014 , 151, 164-8	2.1	5
18	Inhibition of creatine kinase activity from rat cerebral cortex by 3-hydroxykynurenine. <i>Brain Research</i> , 2006 , 1124, 188-96	3.7	5
17	N-acetylaspartic acid impairs enzymatic antioxidant defenses and enhances hydrogen peroxide concentration in rat brain. <i>Metabolic Brain Disease</i> , 2010 , 25, 251-9	3.9	4
16	Inhibition of creatine kinase activity by cystine in the kidney of young rats. <i>Pediatric Research</i> , 2006 , 60, 190-5	3.2	4
15	Inhibition of the mitochondrial respiratory chain by alanine in rat cerebral cortex. <i>Metabolic Brain Disease</i> , 2002 , 17, 123-30	3.9	4
14	Inhibition of mitochondrial creatine kinase activity by D-2-hydroxyglutaric acid in cerebellum of young rats. <i>Neurochemical Research</i> , 2003 , 28, 1329-37	4.6	4
13	Seven-year experience of a reference laboratory for detection of inborn errors of metabolism in Brazil. <i>Journal of Inherited Metabolic Disease</i> , 1991 , 14, 400-2	5.4	4

12	Evaluation of Oxidative Stress Parameters and Energy Metabolism in Cerebral Cortex of Rats Subjected to Sarcosine Administration. <i>Molecular Neurobiology</i> , 2017 , 54, 4496-4506	6.2	3
11	Neonatal hyperglycemia induces cell death in the rat brain. <i>Metabolic Brain Disease</i> , 2018 , 33, 333-342	3.9	3
10	Platelet Na ⁺ , K ⁺ -ATPase activity as a possible peripheral marker for the neurotoxic effects of phenylalanine in phenylketonuria. <i>Metabolic Brain Disease</i> , 2000 , 15, 115-21	3.9	3
9	Inhibition of citrate oxidation in vitro by 2-hydroxybutyrate and 4-hydroxybutyrate in cerebral cortex of young rats. <i>Biochemical Society Transactions</i> , 1995 , 23, 229S	5.1	3
8	Effects of Fish and Grape Seed Oils as Core of Haloperidol-Loaded Nanocapsules on Oral Dyskinesia in Rats. <i>Neurochemical Research</i> , 2018 , 43, 477-487	4.6	2
7	Chemically induced acute model of sarcosinemia in wistar rats. <i>Metabolic Brain Disease</i> , 2016 , 31, 363-8	3.9	2
6	Exercício aeróbico agudo restaura a concentraçã de triptofano em cãebro de ratos com hiperfenilalaninemia. <i>Revista Brasileira De Medicina Do Esporte</i> , 2012 , 18, 338-340	0.5	2
5	Inborn errors of metabolism. Sensitivity of screening tests in high risk patients. <i>Clinical Pediatrics</i> , 1989 , 28, 494-7	1.2	2
4	Effect of proline on creatine kinase activity in rat brain. <i>Metabolic Brain Disease</i> , 2003 , 18, 169-77	3.9	1
3	Influence of methylmalonate on the uptake of ketone bodies in vitro by the brain of young rats. <i>Biochemical Society Transactions</i> , 1990 , 18, 421-2	5.1	1
2	Preliminary results of PBA-loaded nanoparticles development and the effect on oxidative stress and neuroinflammation in rats submitted to a chemically induced chronic model of MSUD. <i>Metabolic Brain Disease</i> , 2021 , 36, 1015-1027	3.9	1
1	Acute biochemical and physiological responses to swimming training series performed at intensities based on the 400-m front crawl speed. <i>Sport Sciences for Health</i> , 2018 , 14, 633-638	1.3	1